



**The Deputy Director General of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Integrated Regional Office, (IRO) - Ranchi  
2nd floor, Headquarter, Jharkhand State Housing Board Harmu Chowk,  
Harmu Housing Colony, Argora, Jharkhand - 834002.**

Ref No. - JMB/ENV/6&7/36/ 133 /2026  
May 25<sup>th</sup>, 2026

Ref.: Environmental Clearance letter no. - J-11015/373/2010-IA .II (M) dated- 3<sup>rd</sup> March 2014.

**SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEF&CC, New Delhi to 6 & 7 Pits Colliery, Tata Steel Limited, Dhanbad for the period October-25 to March-2026.**

Dear Sir,

We are enclosing herewith compliance report for the period **October-25 to March-2026** for the EC granted vide letter no.- J-11015/373/2010-IA.II(M) dated- 3<sup>rd</sup> March 2014 issued by Ministry of Environment, Forest and Climate Change, New Delhi.

We trust the information furnished is in line with your requirement.

Thanking you,

Yours faithfully,

**Head (Planning)  
Jharia Division, Tata Steel Ltd.**

Encl: As above.

Copy to: Member Secretary, CPCB, Eastern Zonal Office, Southend Conclave, 502, 5<sup>th</sup> Floor  
1582, Rajdanga Main Road, Kolkata -700107.

Copy to: Member Secretary, JSPCB, T.A. Division Building (Ground Floor), H.E.C,  
Dhurwa, Ranchi - 834004.

Copy to: Regional Officer, JSPCB, HIG -1 Sardar Patel Nagar, Housing Colony, Hirapur,  
Dhanbad

**TATA STEEL LIMITED**

Jharia Collieries Jamadoba 828 112 Dhanbad India  
Tel 91 326 2320263/2320265/2320267 Fax 91 326 2320268  
Regd. Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001  
Tel 91 22 66658282 Fax 91 22 66657724  
Corporate Identity Number L27100MH1907PLC000260 Website [www.tatasteel.com](http://www.tatasteel.com)

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| <b>Proposal No</b>                     | IA/JH/CMIN/8775/2010                |
| <b>Compliance ID</b>                   | 1227599561                          |
| <b>Compliance Number(For Tracking)</b> | EC/M/COMPLIANCE/1227599561/2026     |
| <b>Reporting Year</b>                  | 2026                                |
| <b>Reporting Period</b>                | 01 Jun(01 Oct - 31 Mar)             |
| <b>Submission Date</b>                 | 27-05-2026                          |
| <b>RO/SRO Name</b>                     | Shri Senthil Kumar Sampath          |
| <b>RO/SRO Email</b>                    | agmu156@ifs.nic.in                  |
| <b>State</b>                           | JHARKHAND                           |
| <b>RO/SRO Office Address</b>           | Integrated Regional Offices, Ranchi |

**Note:-** SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, JHARKHAND with Notification to Project Proponent.

**Half Yearly Compliance Report**  
**2026**  
**01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

|                                          |                                                                                                                                                                         |                               |               |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|
| <b>Proposal Name</b>                     | Expansion of 6 & 7 Pits colliery (from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha) of M/s Tata Steel Ltd., Village Jamadoba, tehsil Jharia, dist. Dhanbad, Jharkhand |                               |               |
| <b>Name of Entity / Corporate Office</b> | Tata Steel Ltd.                                                                                                                                                         |                               |               |
| <b>Village(s)</b>                        | N/A                                                                                                                                                                     |                               |               |
| <b>District</b>                          | DHANBAD                                                                                                                                                                 |                               |               |
| <b>Proposal No.</b>                      | IA/JH/CMIN/8775/2010                                                                                                                                                    | <b>Category</b>               | Coal Mining   |
| <b>Plot / Survey / Khasra No.</b>        | N/A                                                                                                                                                                     | <b>Sub-District</b>           | N/A           |
| <b>State</b>                             | JHARKHAND                                                                                                                                                               | <b>Entity's PAN</b>           | *****2803M    |
| <b>MoEF File No.</b>                     | J-11015/373/2010-IA.II (M)                                                                                                                                              | <b>Entity name as per PAN</b> | UTSAV KASHYAP |

**Compliance Reporting Details**

|                         |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| <b>Reporting Year</b>   | 2026                                                                                   |
| <b>Remarks (if any)</b> | Half Yearly Compliance Report Submission for the period of October 2025 to March 2026. |
| <b>Reporting Period</b> | 01 Jun(01 Oct - 31 Mar)                                                                |

**Details of Production and Project Area**

**Name of Entity / Corporate Office**      Tata Steel Ltd.

|              | <b>Project Area as per EC Granted</b> | <b>Actual Project Area in Possession</b> |
|--------------|---------------------------------------|------------------------------------------|
| Private      | 126.093                               | 126.093                                  |
| Revenue Land | 42.027                                | 42.027                                   |
| Forest       | 0                                     | 0                                        |
| Others       | N/A                                   | N/A                                      |
| Total        | 168.12                                | 168.12                                   |

**Others Area**

| Sr. no | Other Name | Area Granted | Area Actual |
|--------|------------|--------------|-------------|
|--------|------------|--------------|-------------|

**Production Capacity**

| Sr. no | Product Name | units                         | Valid Upto | Capacity | Production last year | Capacity as per CTO |
|--------|--------------|-------------------------------|------------|----------|----------------------|---------------------|
| 1      | Raw Coal     | Million Tons per Annum (MTPA) | 31/03/2027 | 0.6      | 0                    | 0.6                 |

## Conditions

### Specific Conditions

| Sr.No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condition Type                          | Condition Details                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AIR QUALITY MONITORING AND PRESERVATION | Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained. |
| <b>PPs Submission:</b> Complied<br>The production from the colliery has discontinued from January 2021. Water spraying arrangement is present in the underground mines at all transfer points. Water spraying via tankers is done on sand transportation routes. Major approach roads have been black-topped and maintained regularly.                                                                                                                                                                                                                                        |                                         | Date: 14/05/2026                                                                                                                                                                                                         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Human Health Environment                | Adequate measures be taken so as to prevent and control of manifestation of health problems due to coal mining activities.                                                                                               |
| <b>PPs Submission:</b> Complied<br>The production from the colliery has discontinued from January 2021. However, the following control measures were implemented during the operation- i. Water spraying was carried out in underground workings ii. Water sprinkling arrangements were present at all coal transfer points in underground iii. Plantation within the mine lease area iv. Trucks carrying sand were properly covered as well as optimally loaded. v. Underground workings of the mine are well ventilated and meet the required standards prescribed by DGMS. |                                         | Date: 25/05/2026                                                                                                                                                                                                         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GREENBELT                               | Adequate green belt shall be provided around coal handling and other areas.                                                                                                                                              |
| <b>PPs Submission:</b> Complied<br>Green belt has been developed around the CHP of washery and mass plantation activities are taking place every year in the leasehold area. Green belt development plan attached as Annexure I                                                                                                                                                                                                                                                                                                                                               |                                         | Date: 14/05/2026                                                                                                                                                                                                         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AIR QUALITY MONITORING AND PRESERVATION | Transportation of coal shall be by mechanically covered trucks.                                                                                                                                                          |
| <b>PPs Submission:</b> Complied<br>The production from the colliery has discontinued from January 2021. Also, no coal transportation takes place by trucks. All coal is transported to the washery via underground conveyor belt system.                                                                                                                                                                                                                                                                                                                                      |                                         | Date: 14/05/2026                                                                                                                                                                                                         |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AIR QUALITY MONITORING AND PRESERVATION | No dumping of fly ash in low lying areas and in mine voids are permitted.                                                                                                                                                |
| <b>PPs Submission:</b> Complied<br>It is not applicable as there is no generation of fly-ash due to closure of our power plant since April 2015.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Date: 14/05/2026                                                                                                                                                                                                         |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WASTE MANAGEMENT                        | Utmost care be taken to prevent spillage of sand during transportation of sand.                                                                                                                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PPs Submission:</b> Complied<br>The production from the colliery has discontinued from January 2021. Earlier, the trucks that were being used for the transportation of sand were properly covered using tarpaulin sheets. Larger trucks were engaged for reducing no of cycles. To ensure the compliance, every vehicle was checked as per vehicle checklist on PUC, Tyre/body condition, emission check at every entry point. Quality checks were done on trucks to ensure its health. |                                           | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MISCELLANEOUS                             | No use of fly ash with sand will take place for stowing in underground mines.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PPs Submission:</b> Complied<br>Office Memorandum F.No. 22-13/2019-IA.III dated 28th Aug 19 by MOEFCC is being followed.                                                                                                                                                                                                                                                                                                                                                                 |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Statutory compliance                      | The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>PPs Submission:</b> Complied<br>The production from the colliery has discontinued from January 2021. The EC capacity is for 0.6 MTPA raw coal while the raw coal production for 6 and 7 Pits Colliery is well below the limit.                                                                                                                                                                                                                                                           |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WATER QUALITY MONITORING AND PRESERVATION | Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material. |
| <b>PPs Submission:</b> Complied<br>Regular monitoring of subsidence is done by Central Institute for Mining and Fuel Research, Dhanbad. According to the subsidence reports, the impact of subsidence is negligible since the underground mine workings are now at great depth and proper filling of voids through sand stowing is being done.                                                                                                                                              |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Statutory compliance                      | If subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.                                                                                                                                                                                                                                                                                                                                                 |
| <b>PPs Submission:</b> Complied<br>It will be strictly followed.                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MINING PLAN                               | Mining shall be carried out as per statuette at a safe distance from the river/nallah flowing adjacent to the lease boundary.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>PPs Submission:</b> Complied<br>The Damodar River flows at an approx. aerial distance of 2.5 kms from the lease boundary.                                                                                                                                                                                                                                                                                                                                                                |                                           | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GREENBELT                                 | High root density tree species shall be selected and planted over areas likely to be affected by subsidence.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>PPs Submission:</b> Complied<br>Impact on land by subsidence has been found to be negligible as per the subsidence monitoring reports prepared by CIMFR, Dhanbad. Though, high root density trees of native species are covered under annual plantation program.                                                                                                                                                                                                                         |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MISCELLANEOUS                             | Coal Extraction shall also be optimised in areas where agricultural production is continuing. Some pillars shall be left below the                                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           | agricultural land. No depillaring & coal extraction should be carried out below habitation, H.T. Lines & beneath road, water bodies.                                                                                                                                                                                                                                              |
| <b>PPs Submission:</b> Complied<br>It is strictly followed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                               |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Statutory compliance                      | Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement with the landowners.                                                                                                                                                                                   |
| <b>PPs Submission:</b> Complied<br>Regular monitoring of subsidence is being done by CIMFR, Dhanbad and it is well within under statutory limit.                                                                                                                                                                                                                                                                                                                                                                                                   |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                               |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GREENBELT                                 | 3-tier plantation should be developed 2 km stretch of road from the mine using native species.                                                                                                                                                                                                                                                                                    |
| <b>PPs Submission:</b> Complied<br>Plantation along the stretches of road has been done with native species and it is a continuous process under our green belt development programme                                                                                                                                                                                                                                                                                                                                                              |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                               |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WATER QUALITY MONITORING AND PRESERVATION | Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. |
| <b>PPs Submission:</b> Complied<br>Garland drains of adequate size and gradient already exist around the colliery area to channelize the surface runoff. Details of the same are as follows: S. No. Location Length Width Height Gradient<br>1. Office Area 850 m 2.5 m 1 m 1 in 75<br>2. Magazine Area 800 m 2.5 m 1 m 1 in 200<br>3. PH area 550 m 2.5 m 1 m 1 in 97<br>4. Jitpur Area 550 m 3.0 m 1 m 1 in 60<br>5. Brick field area 850 m 1.5 m 1 m 1 in 70                                                                                    |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                               |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MISCELLANEOUS                             | Coal transportation to washery shall be through a network of underground belt conveyor system and hence there is no surface transportation of coal. Transportation of men from surface to underground and back shall be via shaft. The material transport shall be through the shaft and by means of haulage in the underground.                                                  |
| <b>PPs Submission:</b> Complied<br>The production from the colliery has discontinued from January 2021. However, the transportation of coal was through the underground belt conveyor system.                                                                                                                                                                                                                                                                                                                                                      |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                               |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GREENBELT                                 | A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township etc., by planting native species in consultation with the local DFO/Agriculture Department.                                                          |
| <b>PPs Submission:</b> Complied<br>Tree plantation activities are carried out every year on the barren/ degraded areas, areas along road-side, infrastructure, etc of the colliery leasehold. Apart from these, fruit plants are distributed to employees and also to villagers, schools, institutions, etc. The environment department is responsible for implementing the afforestation plan which is prepared along with the mine management. High root density trees of native species are planted under annual plantation program every year. |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WATER QUALITY<br>MONITORING AND<br>PRESERVATION | Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring. |
| <b>PPs Submission:</b> Complied<br>The monitoring of groundwater level and quality is done four times a year. The groundwater quality report and groundwater level are provided in Annexure-II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WATER QUALITY<br>MONITORING AND<br>PRESERVATION | Acid Water Treatment Plant, volume of water to be treated and disposal of brine should be provided.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PPs Submission:</b> Complied<br>6 and 7 Pits Colliery is an underground mine. No acid mine drainage occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                 | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WATER QUALITY<br>MONITORING AND<br>PRESERVATION | Mine discharge water outside the ML shall be monitored, particularly for TDS and treated to conform to prescribed levels before discharge into the natural environment.                                                                                                                                                                                                                                                                                                                                         |
| <b>PPs Submission:</b> Complied<br>There is one mine-water outlet point in the colliery which is regularly being monitored by the Environmental Laboratory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WATER QUALITY<br>MONITORING AND<br>PRESERVATION | The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource, in case water table shows a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.                                                                                                                                                                                                                  |
| <b>PPs Submission:</b> Complied<br>The water pumped out during underground mining activity is re-circulated back into the mine for the purpose of stowing. Backfilling of mine voids by stowing is done using sand which is having the porosity to hold the underground water thus helping aquifer to retain the underground water. Further, there are a number of ponds existing on the surface of the mining lease which act as natural reservoirs for recharging ground water. These ponds/ tanks are regularly cleaned and maintained by our CSR department. As per the hydro-geological report, the variation in the ground water level is only seasonal. The water requirement of the nearby villages is being met by the company already. Now piped drinking water is being provided. |                                                 | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Human Health Environment                        | Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS.                                                                                                                             |
| <b>PPs Submission:</b> Complied<br>The periodic health check-up of the workers is done regularly by our Occupational Health Department, Tata Central Hospital, Jamadoba. We have a PME (Periodic Medical Examination) center approved by DGMS where 20 percentage of the workers identified from workforce engaged in active mining operations are subjected to full medical check including hearing impairment check etc. These results are regularly submitted to DGMS as per mines rules. Some sample reports and as well as past records have been submitted in previous compliance reports.                                                                                                                                                                                             |                                                 | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LAND RECLAMATION                                | The mining in the existing mines should be phased out after expiry                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | of the current mining lease and after reclamation of mined over area. The operating mines may be analysed and monitored for compliance of conditions, bearing with movement of wildlife and until such time they are closed/phased out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PPs Submission:</b> Complied<br>It is not applicable in our case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Corporate Environmental Responsibility | Project specific CSR for an amount of Rs5/Tonne of coal production, as adjusted as per the annual inflation, should be provided for the CSR activities undertaken and the progress made thereon shall be uploaded annually on the company website. Monitoring of the impacts of activities under CSR shall be carried out periodically.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PPs Submission:</b> Complied<br>All the CSR measures are carried out by the CSR wing of the company under the banner of Tata Steel Foundation. During FY October 2025 to March 2026, the company has spent around Rs. 9.67 Crore on the strengthening of social welfare infrastructure of the Jharia region.                                                                                                                                                                                                                                                                                                                                                                              |                                        | Date:<br>26/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MINING PLAN                            | A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>PPs Submission:</b> Complied<br>Mine Closure Plan has been approved by Ministry of Coal, New Delhi. Details on deposition of closure cost in escrow account along with expenditure incurred for progressive closure is regularly submitted to Office of Coal controller. Final mine closure along with details of corpus fund will be submitted to MoEFCC 5 years in advance.                                                                                                                                                                                                                                                                                                             |                                        | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PUBLIC HEARING                         | The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>PPs Submission:</b> Complied<br>The commitment made by project proponent has been taken up and are being addressed gradually. Roads have been maintained in the colliery and along sand transportation routes. Subsidence studies are done every year. All the ash dumps have been reclaimed. Village ponds are cleaned as per requirement. Laying of drinking water pipeline network has been extended to more villages. A network of more than 22000 metres of pipeline connection has been established along with 33 water tanks (capacity of 4500 litres). Health camps are regularly organized by TSRDS. Training to SHEs, women, youth and children are provided in various fields. |                                        | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Corporate Environmental Responsibility | Corporate Environment Responsibility: a) The Company shall have a well laid down Environment Policy approved by the Board of Directors. b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished. d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large. |
| <b>PPs Submission:</b> Complied<br>The Company already has an Environment Policy approved by the Managing Director and it addresses all the issues mentioned. Attached as Annexure-IV. The status of adherence to the policy and compliance to Environmental laws and regulations is regularly discussed at higher levels. Any non-compliance noticed is corrected at divisional level. If any issue is beyond our control, it is                                                                                                                                                                                                                                                            |                                        | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

brought to the notice of higher management. Moreover, 6 and 7 Pits Colliery is IMS (Integrated Management System: Quality Management System, Environment Management System and OHSAS) certified unit addressing all environment aspects, impacts and needs and expectation of interested parties with respect to environment protection.

## General Conditions

| Sr.No.                                                                                                                                                                                                                                                                                                                                                                                            | Condition Type                          | Condition Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                 | MISCELLANEOUS                           | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.                                                                                                                                                                                                                                                                                                                                                        |
| <b>PPs Submission:</b> Complied<br>The points mentioned in the EC letter will be strictly followed. Board and Pillar method is being used for mining.                                                                                                                                                                                                                                             |                                         | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                 | MISCELLANEOUS                           | No change in the calendar plan of production for quantum of mineral coal shall be made.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>PPs Submission:</b> Complied<br>It will be strictly followed.                                                                                                                                                                                                                                                                                                                                  |                                         | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                 | AIR QUALITY MONITORING AND PRESERVATION | Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.             |
| <b>PPs Submission:</b> Complied<br>The Air quality monitoring in the core zone as well as buffer zone is done regularly by NABL recognized lab as well as by our inhouse lab. Monitoring of heavy metals in ambient air is being performed by an independent laboratory (recognised by NABL). The results are enclosed as Annexure-II                                                             |                                         | Date:<br>21/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                 | AIR QUALITY MONITORING AND PRESERVATION | Data on ambient air quality (PM10, PM 2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report. |
| <b>PPs Submission:</b> Complied<br>Ambient air quality report (PM10, PM 2.5, SO2 and NOx) for the period from Oct-25 to Mar-26 is attached as Annexure-II. Additionally, third party monitoring is done through a JSPCB and NABL recognised Laboratory on ambient air quality (PM10, PM 2.5, SO2, NOx, CO, NH3, O3) and heavy metals (As, Ni, Cd and Cr) and results are enclosed as Annexure-II. |                                         | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5                                                                                                                                                                                                                                                                                                                                                                                                 | Noise Monitoring & Prevention           | Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.                                                                                                                                                                                                                                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PPs Submission:</b> Complied<br>Regular noise survey is being conducted in the underground work environment. Workers are provided with ear-plugs/ muffs in high noise areas.                                                                                                                                                                                                                                                                                                                                   |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WATER QUALITY MONITORING AND PRESERVATION | Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.                                             |
| <b>PPs Submission:</b> Complied<br>No industrial wastewater is generated in 6 and 7 Pits Colliery premises. There is a central workshop and garage in Jamadoba where Effluent Treatment Plant having oil and grease trap facility has been provided.                                                                                                                                                                                                                                                              |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AIR QUALITY MONITORING AND PRESERVATION   | Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.                                                                                                                                                                                                                |
| <b>PPs Submission:</b> Complied<br>Only the vehicles having valid PUC certificates are being allowed to operate for sand transportation. Coal transportation was done through underground belt network. Only sand transportation is done through trucks which are covered with tarpaulins as well as optimally loaded. But the mining operations discontinued from January 2021.                                                                                                                                  |                                           | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Statutory compliance                      | Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with SPCB and data got analysed through a laboratory recognised under EP Rules, 1986.                                                                                                                |
| <b>PPs Submission:</b> Complied<br>We have a fully equipped Environment Cell Laboratory with qualified personnel. The monitoring and analysis is also done at regular intervals by a JSPCB approved and NABL accredited laboratory. We have also installed a Continuous Ambient Air Quality Monitoring Station at Jamadoba for real time monitoring.                                                                                                                                                              |                                           | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AIR QUALITY MONITORING AND PRESERVATION   | Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.                                                                                                                                                                                                           |
| <b>PPs Submission:</b> Complied<br>Persons working in dusty area were provided with dust masks have been given awareness training on safety health aspects. Regular PME (Periodic Medical Examinations) was carried out.                                                                                                                                                                                                                                                                                          |                                           | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Human Health Environment                  | Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing. |
| <b>PPs Submission:</b> Complied<br>The periodic health check-up of the workers was done regularly by our Occupational Health Department, Tata Central Hospital, Jamadoba. We have a PME (Periodic Medical Examination) centre approved by DGMS where 20 percentage of the workers identified from workforce engaged in active mining operations are subjected to full medical check-up including hearing impairment check-up, etc. These results are regularly submitted to DGMS as per mines rules. We are doing |                                           | Date:<br>25/05/2026                                                                                                                                                                                                                                                                                                                                                                       |

|                                                                                                                                                                                                                                                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|                                                                                                                                                                                                                                                      |                                        | similar medical examination for our contractor workers in Tata central hospital for other collieries.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |
| 11                                                                                                                                                                                                                                                   | MISCELLANEOUS                          | A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.                                                                                                                                                                                                                                                                                                                                                            |                     |
| <b>PPs Submission:</b> Complied<br>We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.                                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date:<br>14/05/2026 |
| 12                                                                                                                                                                                                                                                   | Corporate Environmental Responsibility | The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Dhanbad.                                                                                                                                                                                                                                                                                                               |                     |
| <b>PPs Submission:</b> Complied<br>The Environment Cell has a separate fund for Environmental protection measures and for complying with legal requirements. The annual environmental expenditure for the financial year 2024-25 is Rs. 297.28 Lakhs |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date:<br>14/05/2026 |
| 13                                                                                                                                                                                                                                                   | Statutory compliance                   | The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .           |                     |
| <b>PPs Submission:</b> Complied<br>It has been complied with. Attached as Annexure-III.                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date:<br>14/05/2026 |
| 14                                                                                                                                                                                                                                                   | Statutory compliance                   | A copy of the environmental clearance letter shall be marked to concerned Panchayat/Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.                                                                                                                                                                                                       |                     |
| <b>PPs Submission:</b> Complied<br>It has been complied with. Attached as Annexure-V.                                                                                                                                                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date:<br>14/05/2026 |
| 15                                                                                                                                                                                                                                                   | Statutory compliance                   | A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.                                                                                                                                                                                                                                                                                      |                     |
| <b>PPs Submission:</b> Complied<br>It has been complied with.                                                                                                                                                                                        |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date:<br>14/05/2026 |
| 16                                                                                                                                                                                                                                                   | Statutory compliance                   | The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM10, PM2.5, SO2 and NOx (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project |                     |

|                                                                                                                                                                                                                                                                                                                                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                      |                      | premises and mines office and in corporate office and on the company's website.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PPs Submission:</b> Complied<br>The clearance letter has been uploaded on the companies website. The compliance status (as Half-yearly compliance report) is being uploaded in company website once in every six months. The display of information near the mines office has also been done.                                     |                      | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 17                                                                                                                                                                                                                                                                                                                                   | Statutory compliance | The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.                                                                                                                                                                                 |
| <b>PPs Submission:</b> Complied<br>It is being complied.                                                                                                                                                                                                                                                                             |                      | Date:<br>26/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 18                                                                                                                                                                                                                                                                                                                                   | Statutory compliance | The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.                                                                                                                                                                                |
| <b>PPs Submission:</b> Complied<br>It will be complied with.                                                                                                                                                                                                                                                                         |                      | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 19                                                                                                                                                                                                                                                                                                                                   | Statutory compliance | The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail. |
| <b>PPs Submission:</b> Complied<br>The environmental statement for financial year 2024-25 has been submitted to JSPCB vide letter no. JMB/ENV/ESSA/05/441/2025 on 30th September 2025 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEFCC by email at ro.ranchi-mefgov.in. |                      | Date:<br>14/05/2026                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Visit Remarks</b>                                                                                                                                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Last Site Visit Report Date:</b>                                                                                                                                                                                                                                                                                                  |                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Additional Remarks:</b>                                                                                                                                                                                                                                                                                                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>                                                             |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# **HALF YEARLY COMPLIANCE REPORT**

**(PERIOD: OCTOBER 2025 - MARCH 2026)**

## **6&7 PITS COLLIERY**

**(CAPACITY: EXPANSION FROM 0.28 TO 0.6 MTPA RAW COAL)**  
**TEHSIL: JHARIA, DIST: DHANBAD, JHARKHAND**



**TATA STEEL LIMITED, JHARIA DIVISION**

**P.O.- JAMADOBA, DIST. - DHANBAD,  
STATE- JHARKHAND, PIN CODE – 828112**

**ENVIRONMENTAL CLEARANCE GRANTED VIDE LETTER NO. - J-11015/373/2010-IA.II  
(M) DATED- 03.03.2014 ISSUED BY GOVT. OF INDIA, MINISTRY OF ENVIRONMENT,  
FOREST AND CLIMATE CHANGE, NEW DELHI.**

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| S. No.                    | Condition                                                                                                                  | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Condition</b> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| (i)                       | Adequate measures be taken so as to prevent and control of manifestation of health problems due to coal mining activities. | The production from the colliery has discontinued from January 2021.<br>However, the following control measures were implemented during the operation-<br>i. Water spraying was carried out in underground workings<br>ii. Water sprinkling arrangements were present at all coal transfer points in underground<br>iii. Plantation within the mine lease area<br>iv. Trucks carrying sand were properly covered as well as optimally loaded.<br>v. Underground workings of the mine are well ventilated and meet the required standards prescribed by DGMS. |
| (ii)                      | Adequate green belt shall be provided around coal handling and other areas.                                                | Green belt has been developed around the Coal Handling Plant (CHP) of washery and mass plantation activities are taking place every year in the leasehold area. Green belt development plan attached as <b>Annexure I</b>                                                                                                                                                                                                                                                                                                                                    |
| (iii)                     | Transportation of coal shall be by mechanically covered trucks.                                                            | The production from the colliery has discontinued from January 2021.<br>Also, no coal transportation takes place by trucks. All coal was transported to the washery via underground conveyor belt system.                                                                                                                                                                                                                                                                                                                                                    |
| (iv)                      | No dumping of fly ash in low lying areas and in mine voids are permitted.                                                  | It is not applicable as there is no generation of fly-ash due to closure of our power plant in April'2015.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| (v)                       | Utmost care be taken to prevent spillage of sand during transportation of sand.                                            | The production from the colliery has discontinued from January 2021.<br>Earlier, the trucks that were being used for the transportation of sand were properly covered using tarpaulin sheets. Larger trucks were engaged for reducing no of cycles. To ensure the compliance, every vehicle was checked as per vehicle checklist on PUC, Tyre/body condition, emission check at every entry point. Quality checks were done on trucks to ensure its health.                                                                                                  |
| (vi)                      | No use of fly ash with sand will take place for stowing in underground mines.                                              | MoEFCC's OM vide F.No. 22-13/2019-IA.III dated 28 <sup>th</sup> Aug'19 is being followed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compliance Status                                                                                                                                                                                                                                                                                           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (vii)  | The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.                                                                                                                                                                                                                                                                                                                                                                                          | The production from the colliery has discontinued from January 2021.                                                                                                                                                                                                                                        |
| (viii) | Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material. | Regular monitoring of subsidence is done by Central Institute for Mining and Fuel Research, Dhanbad. According to the subsidence reports, the impact of subsidence is negligible since the underground mine workings are now at great depth and proper filling of voids through sand stowing is being done. |
| (ix)   | If subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.                                                                                                                                                                                                                                                                                                                                                 | It will be strictly followed.                                                                                                                                                                                                                                                                               |
| (x)    | Mining shall be carried out as per statuette at a safe distance from the river/nallah flowing adjacent to the lease boundary.                                                                                                                                                                                                                                                                                                                                                                       | The Damodar River flows at an approx. aerial distance of 2.5 kms from the lease boundary.                                                                                                                                                                                                                   |
| (xi)   | High root density tree species shall be selected and planted over areas likely to be affected by subsidence.                                                                                                                                                                                                                                                                                                                                                                                        | Impact on land by subsidence has been found to be negligible as per the subsidence monitoring reports prepared by CIMFR, Dhanbad. Though, high root density trees of native species are covered under annual plantation program.                                                                            |
| (xii)  | Coal Extraction shall also be optimised in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No depillaring & coal extraction should be carried out below habitation, H.T. Lines & beneath road, water bodies.                                                                                                                                                                                                                             | It is strictly followed.                                                                                                                                                                                                                                                                                    |
| (xiii) | Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement with the landowners.                                                                                                                                                                                                                                                                                                     | Regular monitoring of subsidence is being done by CIMFR, Dhanbad and it is well within statutory limit.                                                                                                                                                                                                     |
| (xiv)  | 3-tier plantation should be developed 2 km stretch of road from the mine using native species.                                                                                                                                                                                                                                                                                                                                                                                                      | Plantation along the stretches of road has been done with native species and it is a continuous process under our green belt development programme                                                                                                                                                          |
| (xv)   | Garland drains (size, gradient and length) around the safety areas such as mine shaft                                                                                                                                                                                                                                                                                                                                                                                                               | Garland drains of adequate size and gradient already exist around the colliery area to                                                                                                                                                                                                                      |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| S. No.  | Condition                                                                                                                                                                                                                                                                                                                        | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |          |          |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|----------|-------|--------|----------|----|-------------|-------|-------|-----|---------|----|---------------|-------|-------|-----|----------|----|---------|-------|-------|-----|---------|----|-------------|-------|-------|-----|---------|----|------------------|-------|-------|-----|---------|
|         | and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.                                      | channelize the surface runoff. Details of the same are as follows: <table><tr><th>S. No</th><th>Location</th><th>Length</th><th>Width</th><th>Height</th><th>Gradient</th></tr><tr><td>1.</td><td>Office Area</td><td>850 m</td><td>2.5 m</td><td>1 m</td><td>1 in 75</td></tr><tr><td>2.</td><td>Magazine Area</td><td>800 m</td><td>2.5 m</td><td>1 m</td><td>1 in 200</td></tr><tr><td>3.</td><td>PH area</td><td>550 m</td><td>2.5 m</td><td>1 m</td><td>1 in 97</td></tr><tr><td>4.</td><td>Jitpur Area</td><td>550 m</td><td>3.0 m</td><td>1 m</td><td>1 in 60</td></tr><tr><td>5.</td><td>Brick field area</td><td>850 m</td><td>1.5 m</td><td>1 m</td><td>1 in 70</td></tr></table> | S. No | Location | Length   | Width | Height | Gradient | 1. | Office Area | 850 m | 2.5 m | 1 m | 1 in 75 | 2. | Magazine Area | 800 m | 2.5 m | 1 m | 1 in 200 | 3. | PH area | 550 m | 2.5 m | 1 m | 1 in 97 | 4. | Jitpur Area | 550 m | 3.0 m | 1 m | 1 in 60 | 5. | Brick field area | 850 m | 1.5 m | 1 m | 1 in 70 |
| S. No   | Location                                                                                                                                                                                                                                                                                                                         | Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Width | Height   | Gradient |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| 1.      | Office Area                                                                                                                                                                                                                                                                                                                      | 850 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.5 m | 1 m      | 1 in 75  |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| 2.      | Magazine Area                                                                                                                                                                                                                                                                                                                    | 800 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.5 m | 1 m      | 1 in 200 |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| 3.      | PH area                                                                                                                                                                                                                                                                                                                          | 550 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.5 m | 1 m      | 1 in 97  |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| 4.      | Jitpur Area                                                                                                                                                                                                                                                                                                                      | 550 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.0 m | 1 m      | 1 in 60  |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| 5.      | Brick field area                                                                                                                                                                                                                                                                                                                 | 850 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.5 m | 1 m      | 1 in 70  |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| (xvi)   | Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.                                                                                                         | The production from the colliery has discontinued from January 2021. Water spraying arrangement is present in the underground mines at all transfer points. Water spraying via tankers is done on sand transportation routes. Major approach roads have been black-topped and maintained regularly.                                                                                                                                                                                                                                                                                                                                                                                         |       |          |          |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| (xvii)  | Coal transportation to washery shall be through a network of underground belt conveyor system and hence there is no surface transportation of coal. Transportation of men from surface to underground and back shall be via shaft. The material transport shall be through the shaft and by means of haulage in the underground. | The production from the colliery has discontinued from January 2021. However, the transportation of coal was through the underground belt conveyor system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |          |          |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| (xviii) | A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township etc., by planting native species in consultation with the local DFO/Agriculture Department.         | Tree plantation activities are carried out every year on the barren/ degraded areas, areas along road-side, infrastructure, etc of the colliery leasehold. Apart from these, fruit plants are distributed to employees and also to villagers, schools, institutions, etc. High root density trees of native species are planted under annual plantation program every year.                                                                                                                                                                                                                                                                                                                 |       |          |          |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |
| (xix)   | Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The                                                                                                                                                                    | The monitoring of groundwater level and quality is done four times a year. The groundwater quality report & groundwater level are provided in <b>Annexure-II</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |          |          |       |        |          |    |             |       |       |     |         |    |               |       |       |     |          |    |         |       |       |     |         |    |             |       |       |     |         |    |                  |       |       |     |         |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| S. No.  | Condition                                                                                                                                                                                                                                                                                                                                         | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (xx)    | Acid Water Treatment Plant, volume of water to be treated and disposal of brine should be provided.                                                                                                                                                                                                                                               | 6&7 Pits Colliery is an underground mine. No acid mine drainage occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| (xxi)   | Mine discharge water outside the ML shall be monitored, particularly for TDS and treated to conform to prescribed levels before discharge into the natural environment.                                                                                                                                                                           | There is one mine-water outlet point in the colliery which is regularly being monitored by the Environmental Laboratory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (xxii)  | The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource, in case water table shows a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.                                                    | <ul style="list-style-type: none"> <li>• The water pumped out during underground mining activity is re-circulated back into the mine for the purpose of stowing. Backfilling of mine voids by stowing is done using sand which is having the porosity to hold the underground water thus helping aquifer to retain the underground water.</li> <li>• Further, there are a number of ponds existing on the surface of the mining lease which act as natural reservoirs for recharging ground water. These ponds/tanks are regularly cleaned and maintained by our CSR department. As per the hydro-geological report, the variation in the ground water level is only seasonal.</li> <li>• The water requirement of the nearby villages is being met by the company already. Now piped drinking water is being provided.</li> </ul> |
| (xxiii) | Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a                                         | The periodic health check-up of the workers is done regularly by our Occupational Health Department, Tata Central Hospital, Jamadoba. We have a PME (Periodic Medical Examination) centre approved by DGMS where 20 % of the workers identified from workforce engaged in active mining operations are subjected to full medical check including hearing impairment check etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| S. No.   | Condition                                                                                                                                                                                                                                                                                                                               | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | period of one year and the results reported to this Ministry and to DGMS.                                                                                                                                                                                                                                                               | These results are regularly submitted to DGMS as per mines rules.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (xxiv)   | The mining in the existing mines should be phased out after expiry of the current mining lease and after reclamation of mined over area. The operating mines may be analysed and monitored for compliance of conditions, bearing with movement of wildlife and until such time they are closed/phased out.                              | It is not applicable in our case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (xxv)    | Project specific CSR for an amount of Rs5/Tonne of coal production, as adjusted as per the annual inflation, should be provided for the CSR activities undertaken and the progress made thereon shall be uploaded annually on the company website. Monitoring of the impacts of activities under CSR shall be carried out periodically. | All the CSR measures are carried out by the CSR wing of the company under the banner of Tata Steel Foundation. During FY Oct'2025 to March'2026, the company has spent around Rs. 9.67 Crore on the strengthening of social welfare infrastructure of the region.                                                                                                                                                                                                                                                                                                                                                                                         |
| (xxvi)   | A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.                                                                                                                                                          | Mine Closure Plan has been approved by Ministry of Coal, New Delhi. Details on deposition of closure cost in escrow account along with expenditure incurred for progressive closure is regularly submitted to Office of Coal controller. Final mine closure along with details of corpus fund will be submitted to MoEF&CC 5 years in advance.                                                                                                                                                                                                                                                                                                            |
| (xxvii)  | The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.                                                                                                                                                                                                                   | The commitment made by project proponent has been taken up and are being addressed gradually. Roads have been maintained in the colliery and along sand transportation routes. Subsidence studies are done every year. All the ash dumps have been reclaimed. Village ponds are cleaned as per requirement. Laying of drinking water pipeline network has been extended to more villages. A network of more than 22000 metres of pipeline connection has been established along with 33 water tanks (capacity of 4500 litres). Health camps are regularly organized by TSRDS. Training to SHEs, women, youth and children are provided in various fields. |
| (xxviii) | Corporate Environment Responsibility:<br>a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.                                                                                                                                                                                              | The Company already has an Environment Policy approved by the Managing Director and it addresses all the issues mentioned. Attached as <b>Annexure-IV</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <p>b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.</p> <p>c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</p> <p>d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</p> | <p>The status of adherence to the policy and compliance to Environmental laws and regulations is regularly discussed at higher levels. Any non-compliance noticed is corrected at divisional level. If any issue is beyond our control, it is brought to the notice of higher management.</p> <p>Moreover, 6&amp;7 Pits Colliery is IMS (Integrated Management System: Quality Management System, Environment Management System and OHSAS) certified unit addressing all environment aspects, impacts and needs and expectation of interested parties with respect to environment protection.</p> |

| Sl No.                     | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Compliance Status                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Conditions:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                         |
| (i)                        | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.                                                                                                                                                                                                                                                                                                                                            | The points mentioned in the EC letter will be strictly followed. Board and Pillar method is being used for mining.                                                                                                                                                                                                      |
| (ii)                       | No change in the calendar plan of production for quantum of mineral coal shall be made.                                                                                                                                                                                                                                                                                                                                                                                         | It will be strictly followed.                                                                                                                                                                                                                                                                                           |
| (iii)                      | Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months. | <p>The Air quality monitoring in the core zone as well as buffer zone is done regularly by NABL recognized lab as well as by our inhouse lab.</p> <p>Monitoring of heavy metals in ambient air is being performed by an independent laboratory (recognised by NABL). The results are enclosed as <b>Annexure-II</b></p> |
| (iv)                       | Data on ambient air quality (PM10, PM 2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional                                                                                                                                                                                                                                                                     | Ambient air quality report (PM10, PM 2.5, SO2 and NOx) for the period from Oct'25 to Mar'26 is attached as <b>Annexure-II</b> .                                                                                                                                                                                         |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| Sl No. | Condition                                                                                                                                                                                                                                                                                                                                     | Compliance Status                                                                                                                                                                                                                                                                                                                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.                                                               | Additionally, third party monitoring is done through a JSPCB and NABL recognised Laboratory on ambient air quality (PM10, PM 2.5, SO2, NOx, CO, NH3, O3) and heavy metals (As, Ni, Cd and Cr) and results are enclosed as <b>Annexure-II</b> .                                                                                                          |
| (v)    | Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.                                                                                                                        | Regular noise survey is being conducted in the underground work environment. Workers are provided with ear-plugs/ muffs in high noise areas.                                                                                                                                                                                                            |
| (vi)   | Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents. | No industrial wastewater is generated in 6&7 Pits Colliery premises. There is a central workshop and garage in Jamadoba where Effluent Treatment Plant having oil and grease trap facility has been provided.                                                                                                                                           |
| (vii)  | Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.                                                                                                                                                                    | Only the vehicles having valid PUC certificates are being allowed to operate for sand transportation.<br>Coal transportation was done through underground belt network. Only sand transportation is done through trucks which are covered with tarpaulins as well as optimally loaded. But the mining operations discontinued from January 2021.        |
| (viii) | Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with SPCB and data got analysed through a laboratory recognised under EP Rules, 1986.                                                                    | A fully equipped Environmental Laboratory is maintained, staffed by qualified personnel. Monitoring and analysis are conducted at regular intervals by a JSPCB-approved and NABL-accredited laboratory. Additionally, a Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed at Jamadoba for real-time air quality monitoring. |
| (ix)   | Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.                                                                                                                                                               | Persons working in dusty area were provided with dust masks & have been given awareness training on safety & health aspects. Regular PME (Periodic Medical Examinations) was carried out.                                                                                                                                                               |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| Sl No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (x)    | Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.                                                                                                                                                 | The periodic health check-up of the workers was done regularly by our Occupational Health Department, Tata Central Hospital, Jamadoba. We have a PME (Periodic Medical Examination) centre approved by DGMS where 20 % of the workers identified from workforce engaged in active mining operations are subjected to full medical check-up including hearing impairment check-up, etc. These results are regularly submitted to DGMS as per mines rules. We are doing similar medical examination for our contractor workers in Tata central hospital for other collieries. |
| (xi)   | A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.                                                                                                                                                                                                                                                                                                                                                  | We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.                                                                                                                                                                                                                                                                                                                                                                                                              |
| (xii)  | The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Dhanbad.                                                                                                                                                                                                                                                                                                     | The Environment Cell has a separate fund for Environmental protection measures and for complying with legal requirements. The annual environmental expenditure for the financial year 2024-25 is Rs. 297.28 Lakhs                                                                                                                                                                                                                                                                                                                                                           |
| (xiii) | The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . | It has been complied with. Attached as <b>Annexure-III</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| Sl No.  | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Compliance Status                                                                                                                                                                                                                                                |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (xiv)   | A copy of the environmental clearance letter shall be marked to concerned Panchayat/Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.                                                                                                                                                                                                                                                                                       | It has been complied with. Attached as <b>Annexure-V</b> .                                                                                                                                                                                                       |
| (xv)    | A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.                                                                                                                                                                                                                                                                                                                                                                      | It has been complied with.                                                                                                                                                                                                                                       |
| (xvi)   | The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM10, PM2.5, SO2 and NOx (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website. | The clearance letter has been uploaded on the company's website. The compliance status (as Half-yearly compliance report) is being uploaded in company's website once in every six months. The display of information near the mine's office has also been done. |
| (xvii)  | The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.                                                                                                                                                                                                                                                                                                                                                         | It is being complied.                                                                                                                                                                                                                                            |
| (xviii) | The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the                                                                                                                                                                                                                                                                                                                                                                                                       | Noted and being complied.                                                                                                                                                                                                                                        |

**Compliance status of Environmental Clearance of Expansion of 6 and 7 Pits Colliery from 0.28 MTPA to 0.6 MTPA in an ML area 168.12 ha of M/s Tata Steel Ltd., Village Jamadoba, Tehsil Jharia, dist. Dhanbad, Jharkhand vide MoEFCC Letter no J-11015/373/2010-IA.II (M) dated March 3, 2014**

| Sl No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Compliance Status                                                                                                                                                                                                                                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | requisite data/ information/monitoring reports.                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                |
| (xix)  | The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail. | The environmental statement for financial year 2024-25 has been submitted to JSPCB vide letter no. JMB/ENV/ESSA/05/441/2025 on 30 <sup>th</sup> September 2025 and it is also uploaded on the company website. The soft copy of Environment Statement is also sent to MOEFCC by email at ro.ranchi-mef@gov.in. |

### Statement showing measures taken for increasing tree and forest cover

Plantation activities are carried out in the barren land of the colliery leasehold area to increase the green cover as well as in the washery premises. Care is taken to plant only the native species so that native ecosystem is preserved. Following are the details of mass plantation in our leasehold area of Jharia Division for greenery development.

| Year | No. of trees planted |
|------|----------------------|
| FY14 | 10195                |
| FY15 | 15800                |
| FY16 | 10000                |
| FY17 | 10900                |
| FY18 | 8500                 |
| FY19 | 10000                |
| FY20 | 50235                |
| FY21 | 3000                 |
| FY22 | 10005                |
| FY23 | 25117                |
| FY24 | 12452                |
| FY25 | 12313                |
| FY26 | 7818                 |

Glimpses of plantation activities for FY26:





Before



After



Before



After



Before



After

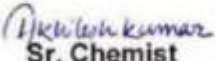


Before



After

|                                                           |                                                            | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br><b>NABL ACCREDITED</b><br><b>(A Constituent Board of Quality Council of India)</b><br><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b> |                       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ref. No.: - ARDS/25-26/AAQ/1                                                                                                               |                                                            | Date: 24/11/2025                                                                                                                                                                                                               |                       |                                                                                                                                                                                                                                                                    |     |
| <b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>                                                                                           |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| • Name of the industry                                                                                                                     |                                                            | : M/S TATA STEEL, JAMADOBA,<br>TATA STEEL LIMITED<br>JAMADOBA GROUP PLANT,<br>DIST. - DHANBAD (JHARKHAND)                                                                                                                      |                       |                                                                                                                                                                                                                                                                    |     |
| • Work Order Ref. NO.:                                                                                                                     |                                                            | : 4700126557/932 Date:- 29/05/2024                                                                                                                                                                                             |                       |                                                                                                                                                                                                                                                                    |     |
| • Date of Sample Collection                                                                                                                |                                                            | : 18/11/2025 To 19/11/2025                                                                                                                                                                                                     |                       |                                                                                                                                                                                                                                                                    |     |
| • Date of Testing                                                                                                                          |                                                            | : 20/11/2025 To 24/11/2025                                                                                                                                                                                                     |                       |                                                                                                                                                                                                                                                                    |     |
| • Test Procedure                                                                                                                           |                                                            | : As per IS-5182                                                                                                                                                                                                               |                       |                                                                                                                                                                                                                                                                    |     |
| <b><u>TEST RESULTS</u></b>                                                                                                                 |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| <b>LOCATION – 6 &amp; 7 PITS COLLIERY OFFICE</b>                                                                                           |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| Avg. Ambient Temperature                                                                                                                   |                                                            | 22°C                                                                                                                                                                                                                           | Avg. Humidity         |                                                                                                                                                                                                                                                                    | 36% |
| SI No.                                                                                                                                     | Particulars                                                | Value                                                                                                                                                                                                                          | NAAQ - CPCB STANDARD  |                                                                                                                                                                                                                                                                    |     |
| 1.                                                                                                                                         | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 93.4                                                                                                                                                                                                                           | 100 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |     |
| 2.                                                                                                                                         | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 57.9                                                                                                                                                                                                                           | 60 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 3.                                                                                                                                         | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 20.59                                                                                                                                                                                                                          | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 4.                                                                                                                                         | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 21.53                                                                                                                                                                                                                          | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 5.                                                                                                                                         | Ozone, µg/m <sup>3</sup>                                   | 14.46                                                                                                                                                                                                                          | 180 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |     |
| 6.                                                                                                                                         | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 13.78                                                                                                                                                                                                                          | 400 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |     |
| 7.                                                                                                                                         | CO, mg/m <sup>3</sup>                                      | 0.68                                                                                                                                                                                                                           | 4 mg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 8.                                                                                                                                         | Pb, µg/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                                            | 1 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 9.                                                                                                                                         | As, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                                            | 6 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 10.                                                                                                                                        | Ni, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                                            | 20 ng/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 11.                                                                                                                                        | Benzene, µg/m <sup>3</sup>                                 | BDL                                                                                                                                                                                                                            | 5 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 12.                                                                                                                                        | Benzoapyrene ng/m <sup>3</sup>                             | BDL                                                                                                                                                                                                                            | 1 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| NOTE: BDL - Below Detection Limit                                                                                                          |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| <br>Sr. Chemist<br>Aditi R&D Services                   |                                                            |                                                                                                                                             |                       | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |     |
| Statements :                                                                                                                               |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                            |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                        |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |
| 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory. |                                                            |                                                                                                                                                                                                                                |                       |                                                                                                                                                                                                                                                                    |     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br><b>NABL ACCREDITED</b><br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|-------------------|---------------|-----|--------|-------------|-------|----------------------|--|----|-----------------------------------------------------------|-------|-----------------------|--|----|------------------------------------------------------------|------|----------------------|--|----|-------------------------------------|-------|----------------------|--|----|-------------------------------------|-------|----------------------|--|----|--------------------------|-------|-----------------------|--|----|-------------------------------------|-------|-----------------------|--|----|-----------------------|------|---------------------|--|----|-----------------------|-----|---------------------|--|----|-----------------------|-----|---------------------|--|-----|-----------------------|-----|----------------------|--|-----|----------------------------|-----|---------------------|--|-----|--------------------------------|-----|---------------------|--|
| Ref. No.: - ARDS/25-26/ AAQ/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            | Date: 24/11/2025                                                                                                                                                                                                 |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 17/11/2025 to 18/11/2025</li><li>Date of Testing : 19/11/2025 to 24/11/2025</li><li>Test Procedure : As per IS-5182</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <b><u>TEST RESULTS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| LOCATION – Officer' Colony, 12 No Digwadih                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <table border="1"><thead><tr><th colspan="2">Avg. Ambient Temperature</th><th>22<sup>0</sup>C</th><th>Avg. Humidity</th><th>36%</th></tr><tr><th>Sl No.</th><th>Particulars</th><th>Value</th><th colspan="2">NAAQ - CPCB STANDARD</th></tr></thead><tbody><tr><td>1.</td><td>Particulate Matter (PM<sub>10</sub>), µg/m<sup>3</sup></td><td>90.88</td><td colspan="2">100 µg/m<sup>3</sup></td></tr><tr><td>2.</td><td>Particulate Matter (PM<sub>2.5</sub>), µg/m<sup>3</sup></td><td>58.5</td><td colspan="2">60 µg/m<sup>3</sup></td></tr><tr><td>3.</td><td>SO<sub>2</sub>, µg/m<sup>3</sup></td><td>15.70</td><td colspan="2">80 µg/m<sup>3</sup></td></tr><tr><td>4.</td><td>NO<sub>2</sub>, µg/m<sup>3</sup></td><td>25.00</td><td colspan="2">80 µg/m<sup>3</sup></td></tr><tr><td>5.</td><td>Ozone, µg/m<sup>3</sup></td><td>16.26</td><td colspan="2">180 µg/m<sup>3</sup></td></tr><tr><td>6.</td><td>NH<sub>3</sub>, µg/m<sup>3</sup></td><td>14.82</td><td colspan="2">400 µg/m<sup>3</sup></td></tr><tr><td>7.</td><td>CO, mg/m<sup>3</sup></td><td>0.59</td><td colspan="2">4 mg/m<sup>3</sup></td></tr><tr><td>8.</td><td>Pb, µg/m<sup>3</sup></td><td>BDL</td><td colspan="2">1 µg/m<sup>3</sup></td></tr><tr><td>9.</td><td>As, ng/m<sup>3</sup></td><td>BDL</td><td colspan="2">6 ng/m<sup>3</sup></td></tr><tr><td>10.</td><td>Ni, ng/m<sup>3</sup></td><td>BDL</td><td colspan="2">20 ng/m<sup>3</sup></td></tr><tr><td>11.</td><td>Benzene, µg/m<sup>3</sup></td><td>BDL</td><td colspan="2">5 µg/m<sup>3</sup></td></tr><tr><td>12.</td><td>Benzoapyrene ng/m<sup>3</sup></td><td>BDL</td><td colspan="2">1 ng/m<sup>3</sup></td></tr></tbody></table> |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  | Avg. Ambient Temperature |  | 22 <sup>0</sup> C | Avg. Humidity | 36% | Sl No. | Particulars | Value | NAAQ - CPCB STANDARD |  | 1. | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> | 90.88 | 100 µg/m <sup>3</sup> |  | 2. | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 58.5 | 60 µg/m <sup>3</sup> |  | 3. | SO <sub>2</sub> , µg/m <sup>3</sup> | 15.70 | 80 µg/m <sup>3</sup> |  | 4. | NO <sub>2</sub> , µg/m <sup>3</sup> | 25.00 | 80 µg/m <sup>3</sup> |  | 5. | Ozone, µg/m <sup>3</sup> | 16.26 | 180 µg/m <sup>3</sup> |  | 6. | NH <sub>3</sub> , µg/m <sup>3</sup> | 14.82 | 400 µg/m <sup>3</sup> |  | 7. | CO, mg/m <sup>3</sup> | 0.59 | 4 mg/m <sup>3</sup> |  | 8. | Pb, µg/m <sup>3</sup> | BDL | 1 µg/m <sup>3</sup> |  | 9. | As, ng/m <sup>3</sup> | BDL | 6 ng/m <sup>3</sup> |  | 10. | Ni, ng/m <sup>3</sup> | BDL | 20 ng/m <sup>3</sup> |  | 11. | Benzene, µg/m <sup>3</sup> | BDL | 5 µg/m <sup>3</sup> |  | 12. | Benzoapyrene ng/m <sup>3</sup> | BDL | 1 ng/m <sup>3</sup> |  |
| Avg. Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            | 22 <sup>0</sup> C                                                                                                                                                                                                | Avg. Humidity         | 36%                                                                                                                                                                                                                                                                |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| Sl No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Particulars                                                | Value                                                                                                                                                                                                            | NAAQ - CPCB STANDARD  |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 90.88                                                                                                                                                                                                            | 100 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 58.5                                                                                                                                                                                                             | 60 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 15.70                                                                                                                                                                                                            | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 25.00                                                                                                                                                                                                            | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ozone, µg/m <sup>3</sup>                                   | 16.26                                                                                                                                                                                                            | 180 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 14.82                                                                                                                                                                                                            | 400 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CO, mg/m <sup>3</sup>                                      | 0.59                                                                                                                                                                                                             | 4 mg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pb, µg/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 1 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | As, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 6 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ni, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 20 ng/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzene, µg/m <sup>3</sup>                                 | BDL                                                                                                                                                                                                              | 5 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Benzoapyrene ng/m <sup>3</sup>                             | BDL                                                                                                                                                                                                              | 1 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| NOTE: BDL - Below Detection Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |                                                                                                                               |                       | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <b>Statements :</b><br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |                          |  |                   |               |     |        |             |       |                      |  |    |                                                           |       |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |

|                                                                                                                                                                                                                                                                                                                         |                                                            | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br><b>NABL ACCREDITED</b><br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358482, 09431512608 |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ref. No.: - ARDS/25-26/ AAQ/3                                                                                                                                                                                                                                                                                                                                                                            |                                                            | Date: 24/11/2025                                                                                                                                                                                                 |                       |                                                                                                                                                                                                                                                                    |     |
| <b>TEST REPORT OF AMBIENT AIR QUALITY</b>                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |     |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA,<br/>TATA STEEL LIMITED<br/>JAMADOBA GROUP PLANT,<br/>DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 18/11/2025 to 19/11/2025</li><li>Date of Testing : 20/11/2025 to 24/11/2025</li><li>Test Procedure : As per IS-5182</li></ul> |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |     |
| <b>TEST RESULTS</b>                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |     |
| <b>LOCATION – CENTRAL WORKSHOP AREA , JAMADOBA</b>                                                                                                                                                                                                                                                                                                                                                       |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |     |
| Avg. Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                 |                                                            | 22 <sup>0</sup> C                                                                                                                                                                                                | Avg. Humidity         |                                                                                                                                                                                                                                                                    | 36% |
| Sl No.                                                                                                                                                                                                                                                                                                                                                                                                   | Particulars                                                | Value                                                                                                                                                                                                            | NAAQ - CPCB STANDARD  |                                                                                                                                                                                                                                                                    |     |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                       | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 89.6                                                                                                                                                                                                             | 100 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |     |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                       | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 48.2                                                                                                                                                                                                             | 60 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                       | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 13.26                                                                                                                                                                                                            | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                       | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 31.63                                                                                                                                                                                                            | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                       | Ozone, µg/m <sup>3</sup>                                   | 15.16                                                                                                                                                                                                            | 180 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |     |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                       | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 14.82                                                                                                                                                                                                            | 400 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |     |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                       | CO, mg/m <sup>3</sup>                                      | 0.76                                                                                                                                                                                                             | 4 mg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                       | Pb, µg/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 1 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                       | As, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 6 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                      | Ni, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 20 ng/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |     |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                      | Benzene, µg/m <sup>3</sup>                                 | BDL                                                                                                                                                                                                              | 5 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| 12.                                                                                                                                                                                                                                                                                                                                                                                                      | Benzoapyrene ng/m <sup>3</sup>                             | BDL                                                                                                                                                                                                              | 1 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |     |
| NOTE: BDL - Below Detection Limit                                                                                                                                                                                                                                                                                                                                                                        |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |     |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                                                 |                                                            |                                                                                                                               |                       | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |     |
| <b>Statements :</b><br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.                              |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br><b>NABL ACCREDITED</b><br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--------------------------|------|---------------|-----|--|-------------|-------|----------------------|--|----|-----------------------------------------------------------|------|-----------------------|--|----|------------------------------------------------------------|------|----------------------|--|----|-------------------------------------|-------|----------------------|--|----|-------------------------------------|-------|----------------------|--|----|--------------------------|-------|-----------------------|--|----|-------------------------------------|-------|-----------------------|--|----|-----------------------|------|---------------------|--|----|-----------------------|-----|---------------------|--|----|-----------------------|-----|---------------------|--|-----|-----------------------|-----|----------------------|--|-----|----------------------------|-----|---------------------|--|-----|--------------------------------|-----|---------------------|--|
| Ref. No.: - ARDS/25-26/ AAQ/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            | Date: 24/11/2025                                                                                                                                                                                                 |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA,<br/>TATA STEEL LIMITED<br/>JAMADOBA GROUP PLANT,<br/>DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 17/11/2025 To 18/11/2025</li><li>Date of Testing : 19/11/2025 to 24/11/2025</li><li>Test Procedure : As per IS-5182</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <b><u>TEST RESULTS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| LOCATION – TATA MAIN HOSPITAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <table border="1"><thead><tr><th>SI No.</th><th>Avg. Ambient Temperature</th><th>22°C</th><th>Avg. Humidity</th><th>36%</th></tr><tr><th></th><th>Particulars</th><th>Value</th><th colspan="2">NAAQ - CPCB STANDARD</th></tr></thead><tbody><tr><td>1.</td><td>Particulate Matter (PM<sub>10</sub>), µg/m<sup>3</sup></td><td>88.7</td><td colspan="2">100 µg/m<sup>3</sup></td></tr><tr><td>2.</td><td>Particulate Matter (PM<sub>2.5</sub>), µg/m<sup>3</sup></td><td>52.1</td><td colspan="2">60 µg/m<sup>3</sup></td></tr><tr><td>3.</td><td>SO<sub>2</sub>, µg/m<sup>3</sup></td><td>18.80</td><td colspan="2">80 µg/m<sup>3</sup></td></tr><tr><td>4.</td><td>NO<sub>2</sub>, µg/m<sup>3</sup></td><td>18.00</td><td colspan="2">80 µg/m<sup>3</sup></td></tr><tr><td>5.</td><td>Ozone, µg/m<sup>3</sup></td><td>14.38</td><td colspan="2">180 µg/m<sup>3</sup></td></tr><tr><td>6.</td><td>NH<sub>3</sub>, µg/m<sup>3</sup></td><td>13.66</td><td colspan="2">400 µg/m<sup>3</sup></td></tr><tr><td>7.</td><td>CO, mg/m<sup>3</sup></td><td>0.82</td><td colspan="2">4 mg/m<sup>3</sup></td></tr><tr><td>8.</td><td>Pb, µg/m<sup>3</sup></td><td>BDL</td><td colspan="2">1 µg/m<sup>3</sup></td></tr><tr><td>9.</td><td>As, ng/m<sup>3</sup></td><td>BDL</td><td colspan="2">6 ng/m<sup>3</sup></td></tr><tr><td>10.</td><td>Ni, ng/m<sup>3</sup></td><td>BDL</td><td colspan="2">20 ng/m<sup>3</sup></td></tr><tr><td>11.</td><td>Benzene, µg/m<sup>3</sup></td><td>BDL</td><td colspan="2">5 µg/m<sup>3</sup></td></tr><tr><td>12.</td><td>Benzoapyrene ng/m<sup>3</sup></td><td>BDL</td><td colspan="2">1 ng/m<sup>3</sup></td></tr></tbody></table> |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  | SI No. | Avg. Ambient Temperature | 22°C | Avg. Humidity | 36% |  | Particulars | Value | NAAQ - CPCB STANDARD |  | 1. | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> | 88.7 | 100 µg/m <sup>3</sup> |  | 2. | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 52.1 | 60 µg/m <sup>3</sup> |  | 3. | SO <sub>2</sub> , µg/m <sup>3</sup> | 18.80 | 80 µg/m <sup>3</sup> |  | 4. | NO <sub>2</sub> , µg/m <sup>3</sup> | 18.00 | 80 µg/m <sup>3</sup> |  | 5. | Ozone, µg/m <sup>3</sup> | 14.38 | 180 µg/m <sup>3</sup> |  | 6. | NH <sub>3</sub> , µg/m <sup>3</sup> | 13.66 | 400 µg/m <sup>3</sup> |  | 7. | CO, mg/m <sup>3</sup> | 0.82 | 4 mg/m <sup>3</sup> |  | 8. | Pb, µg/m <sup>3</sup> | BDL | 1 µg/m <sup>3</sup> |  | 9. | As, ng/m <sup>3</sup> | BDL | 6 ng/m <sup>3</sup> |  | 10. | Ni, ng/m <sup>3</sup> | BDL | 20 ng/m <sup>3</sup> |  | 11. | Benzene, µg/m <sup>3</sup> | BDL | 5 µg/m <sup>3</sup> |  | 12. | Benzoapyrene ng/m <sup>3</sup> | BDL | 1 ng/m <sup>3</sup> |  |
| SI No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Avg. Ambient Temperature                                   | 22°C                                                                                                                                                                                                             | Avg. Humidity         | 36%                                                                                                                                                                                                                                                                |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Particulars                                                | Value                                                                                                                                                                                                            | NAAQ - CPCB STANDARD  |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 88.7                                                                                                                                                                                                             | 100 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 52.1                                                                                                                                                                                                             | 60 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 18.80                                                                                                                                                                                                            | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 18.00                                                                                                                                                                                                            | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ozone, µg/m <sup>3</sup>                                   | 14.38                                                                                                                                                                                                            | 180 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 13.66                                                                                                                                                                                                            | 400 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CO, mg/m <sup>3</sup>                                      | 0.82                                                                                                                                                                                                             | 4 mg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pb, µg/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 1 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | As, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 6 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ni, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                              | 20 ng/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Benzene, µg/m <sup>3</sup>                                 | BDL                                                                                                                                                                                                              | 5 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Benzoapyrene ng/m <sup>3</sup>                             | BDL                                                                                                                                                                                                              | 1 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| NOTE: BDL - Below Detection Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |                                                                                                                               |                       | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| Statements :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |
| 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |                                                                                                                                                                                                                  |                       |                                                                                                                                                                                                                                                                    |  |        |                          |      |               |     |  |             |       |                      |  |    |                                                           |      |                       |  |    |                                                            |      |                      |  |    |                                     |       |                      |  |    |                                     |       |                      |  |    |                          |       |                       |  |    |                                     |       |                       |  |    |                       |      |                     |  |    |                       |     |                     |  |    |                       |     |                     |  |     |                       |     |                      |  |     |                            |     |                     |  |     |                                |     |                     |  |

|  | <h2 style="margin:0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin:0;">Testing Laboratory</h3> <p style="margin:0;"><b>NABL ACCREDITED</b></p> <p style="margin:0;">(A Constituent Board of Quality Council of India)</p> <p style="margin:0;"><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b></p> |                                            | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358402, 09431512608 |                                   |                                             |      |                   |                                                                                                                                                                                                  |                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                   | <h3 style="margin:0;">TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING</h3>                                                                                                                                                                                                                                                     |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   |                                                                                                                                                                                                  |                  |
|                                                                                   | Ref. No. & Date<br><b>ARDS/25-26/NOISE/1</b> Date: 24/11/2025                                                                                                                                                                                                                                                                  |                                            | NAME AND ADDRESS OF THE CLIENT<br><b>M/S TATA STEEL, JAMADOBA,</b><br><b>TATA STEEL LIMITED, JAMADOBA GROUP PLANT,</b><br><b>DIST. - DHANBAD (JHARKHAND)</b>                                                                                                       |                                   |                                             |      |                   |                                                                                                                                                                                                  |                  |
| Date of Monitoring<br><b>17/11/2025 To 20/11/2025</b>                             |                                                                                                                                                                                                                                                                                                                                | Avg. Ambient Temperature (°C)<br><b>22</b> | Average Humidity (%)<br><b>36</b>                                                                                                                                                                                                                                  | Weather Condition<br><b>Clear</b> | Status of the plant<br><b>Running</b>       |      |                   |                                                                                                                                                                                                  |                  |
| Work Order 4700126557/932<br>Date:- 29/05/2024                                    |                                                                                                                                                                                                                                                                                                                                |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   |                                                                                                                                                                                                  |                  |
| <b>MONITORING RESULTS</b>                                                         |                                                                                                                                                                                                                                                                                                                                |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   |                                                                                                                                                                                                  |                  |
| Sl. No                                                                            | Place of Monitoring                                                                                                                                                                                                                                                                                                            | Day Time<br>(6 AM to 10 PM)<br>Avg. dB(A)  |                                                                                                                                                                                                                                                                    |                                   | Night Time<br>(10 PM to 6 AM)<br>Avg. dB(A) |      |                   | Noise level (Ambient standard) for Industrial Area as per CPCB Noise Pollution (Regulation and Control) (Amendment) Rules , 2000 notified vide S.O. 1046(E) Dt. 22.11.2020<br>Limit in dB(A) Leq |                  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                | MAX                                        | MIN                                                                                                                                                                                                                                                                | AVG. dB(A) Leq                    | MAX                                         | MIN  | AVERAGE dB(A) Leq | Day Time                                                                                                                                                                                         | Night Time       |
| LOCATION                                                                          |                                                                                                                                                                                                                                                                                                                                |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   | Industrial Area                                                                                                                                                                                  | Industrial Area  |
| JAMADOBA GROUP                                                                    |                                                                                                                                                                                                                                                                                                                                |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   |                                                                                                                                                                                                  |                  |
| 1.                                                                                | Central Workshop Area                                                                                                                                                                                                                                                                                                          | 74.2                                       | 59.2                                                                                                                                                                                                                                                               | 71.32                             | 65.6                                        | 48.0 | 62.66             | 75                                                                                                                                                                                               | 70               |
| 2.                                                                                | 6 & 7 Pits Colliery Office                                                                                                                                                                                                                                                                                                     | 57.4                                       | 44.8                                                                                                                                                                                                                                                               | 54.62                             | 49.7                                        | 44.8 | 47.91             |                                                                                                                                                                                                  |                  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   | Residential Area                                                                                                                                                                                 | Residential Area |
| 3.                                                                                | Officer Colony 12 No. Digwadih                                                                                                                                                                                                                                                                                                 | 44.3                                       | 43.2                                                                                                                                                                                                                                                               | 43.78                             | 38.7                                        | 30.2 | 36.26             | 65                                                                                                                                                                                               | 55               |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                |                                            |                                                                                                                                                                                                                                                                    |                                   |                                             |      |                   | Silence Zone                                                                                                                                                                                     | Silence Zone     |
| 4.                                                                                | Tata Main Hospital                                                                                                                                                                                                                                                                                                             | 49.6                                       | 43.1                                                                                                                                                                                                                                                               | 47.47                             | 37.6                                        | 38.8 | 38.24             | 50                                                                                                                                                                                               | 40               |

*Dhriti Kumar*  
**Sr. Chemist**  
 Aditi R&D Services



*[Signature]*  
**Quality Manager**  
 Aditi R&D Services, Sindri

**Statements :**

- The test report refers only to the particular item(s) submitted for testing.
- The test results reported in this report are valid at the time of and under the stated condition of measurement.
- This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.

|                                                                                                                                                                                                                                                                                  |                                 | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br><b>NABL ACCREDITED</b><br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirndservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Ref. No.: - ARDS/25-26/MINER./1                                                                                                                                                                                                                                                                                                                                   |                                 | Date: 24/11/2025                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                     |      |
| <b><u>TEST REPORT OF MINERALOGICAL COMPOSITION</u></b><br><b><u>OF PARTICULATE MATTER</u></b>                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                     |      |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA,<br/>TATA STEEL LIMITED<br/>JAMADOBA GROUP PLANT,<br/>DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 18/11/2025 and 19/11/2025</li><li>Date of Testing : 20/11/2025 To 25/11/2025</li></ul> |                                 |                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                     |      |
| <b><u>TEST RESULTS</u></b>                                                                                                                                                                                                                                                                                                                                        |                                 |                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                     |      |
| Sl No.                                                                                                                                                                                                                                                                                                                                                            | Particulars                     | Mineralogical Composition (%)                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                     |      |
|                                                                                                                                                                                                                                                                                                                                                                   |                                 | SiO <sub>2</sub>                                                                                                                                                                                                 | FeO   | Al <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                      | CaO  |
| 1.                                                                                                                                                                                                                                                                                                                                                                | Central Workshop Area, Jamadoba | 1.84                                                                                                                                                                                                             | 0.124 | 1.41                                                                                                                                                                                                                                                                | 2.96 |
| 2.                                                                                                                                                                                                                                                                                                                                                                | Officer' Colony, 12 No Digwadih | 1.86                                                                                                                                                                                                             | 0.103 | 1.28                                                                                                                                                                                                                                                                | 2.72 |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                          |                                 |                                                                                                                               |       | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                              |      |
| Statements :                                                                                                                                                                                                                                                                                                                                                      |                                 |                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                     |      |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                                                                                                                                                                                                                                                   |                                 |                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                     |      |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                                                                                                                                                                                                                                               |                                 |                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                     |      |
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|                                                                                                                                                                                                                                                                                            |                                    | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br><b>NABL ACCREDITED</b><br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                         | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirndservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Ref. No.: - ARDS/25-26/SW/1                                                                                                                                                                                                                                                                                                                                                 |                                    | Date: 24/11/2025                                                                                                                                                                                                 |                         |                                                                                                                                                                                                                                                                     |                      |
| <b><u>TEST REPORT OF SURFACE WATER</u></b>                                                                                                                                                                                                                                                                                                                                  |                                    |                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                                                                                     |                      |
| • Name of the industry                                                                                                                                                                                                                                                                                                                                                      |                                    | : M/S TATA STEEL, JAMADOBA,<br>TATA STEEL LIMITED<br>JAMADOBA GROUP PLANT,<br>DIST. - DHANBAD (JHARKHAND)                                                                                                        |                         |                                                                                                                                                                                                                                                                     |                      |
| • Work Order Ref. NO.:                                                                                                                                                                                                                                                                                                                                                      |                                    | : 4700126557/932 Date:- 29/05/2024                                                                                                                                                                               |                         |                                                                                                                                                                                                                                                                     |                      |
| • Sample Code                                                                                                                                                                                                                                                                                                                                                               |                                    | : 1. Damodar River Up Stream<br>2. Damodar River Down Stream                                                                                                                                                     |                         |                                                                                                                                                                                                                                                                     |                      |
| • Date of Sample Collection:                                                                                                                                                                                                                                                                                                                                                |                                    | : 18/11/2025                                                                                                                                                                                                     |                         |                                                                                                                                                                                                                                                                     |                      |
| • Date of Testing                                                                                                                                                                                                                                                                                                                                                           |                                    | : 19/11/2025 To 23/11/2025                                                                                                                                                                                       |                         |                                                                                                                                                                                                                                                                     |                      |
| • Test                                                                                                                                                                                                                                                                                                                                                                      |                                    | : pH, TDS, Turbidity, DO, BOD, Cl, F, SO <sub>4</sub>                                                                                                                                                            |                         |                                                                                                                                                                                                                                                                     |                      |
| <b><u>TEST RESULT</u></b>                                                                                                                                                                                                                                                                                                                                                   |                                    |                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                                                                                     |                      |
| Sl. No.                                                                                                                                                                                                                                                                                                                                                                     | PARAMETERS OF TEST                 | VALUE                                                                                                                                                                                                            |                         | Limit as per IS 2296 Class - C                                                                                                                                                                                                                                      | Test Method          |
|                                                                                                                                                                                                                                                                                                                                                                             |                                    | Damodar River Up Stream                                                                                                                                                                                          | Damodar River Dn Stream |                                                                                                                                                                                                                                                                     |                      |
| 1.                                                                                                                                                                                                                                                                                                                                                                          | pH                                 | 8.16                                                                                                                                                                                                             | 8.31                    | 6.5 -8.5                                                                                                                                                                                                                                                            | IS-3025 (P-11): 1983 |
| 2.                                                                                                                                                                                                                                                                                                                                                                          | Total Dissolved Solids, mg/l       | 430                                                                                                                                                                                                              | 451                     | 1500                                                                                                                                                                                                                                                                | IS-3025 (P-16): 1984 |
| 3.                                                                                                                                                                                                                                                                                                                                                                          | Turbidity, NTU                     | 1.5                                                                                                                                                                                                              | 1.2                     | -                                                                                                                                                                                                                                                                   | IS-3025 (P-10):1984  |
| 4.                                                                                                                                                                                                                                                                                                                                                                          | Dissolved Oxygen, mg/l             | 6.2                                                                                                                                                                                                              | 6.4                     | 4.0 (Min)                                                                                                                                                                                                                                                           | IS-3025 (P-38):1989  |
| 5.                                                                                                                                                                                                                                                                                                                                                                          | Bio chemical Oxygen Demand, mg/l   | 1.3                                                                                                                                                                                                              | 1.6                     | 3.0                                                                                                                                                                                                                                                                 | IS-3025 (P-44):1994  |
| 6.                                                                                                                                                                                                                                                                                                                                                                          | Chloride as Cl, mg/l               | 34.9                                                                                                                                                                                                             | 32.97                   | 600 (Max.)                                                                                                                                                                                                                                                          | IS-3025 (P-32):1988  |
| 7.                                                                                                                                                                                                                                                                                                                                                                          | Fluoride as F, mg/l                | 0.6                                                                                                                                                                                                              | 0.3                     | 1.5                                                                                                                                                                                                                                                                 | IS-3025 (P-60):2008  |
| 8.                                                                                                                                                                                                                                                                                                                                                                          | Sulphate as SO <sub>4</sub> , mg/l | 112.32                                                                                                                                                                                                           | 96.32                   | 400                                                                                                                                                                                                                                                                 | IS-3025 (P-24):1986  |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                    |                                    |                                                                                                                               |                         | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                              |                      |
| <b>Statements :</b><br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory. |                                    |                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                                                                                     |                      |

|                                                                                   |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ref. No.: - ARDS/25-26/MWD/1

Date: 24/11/2025

**TEST REPORT OF MINE WATER DISCHARGE**

- Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Sample Code :
  - 2 Pit Jamadoba Colliery
  - 3 Pit Jamadoba Colliery
  - 6 & 7 Pits Colliery
  - Digwadih Colliery
- Date of Sample Collection: 17/11/2025 To 18/11/2025
- Date of Testing : 19/11/2025 To 23/11/2025
- Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

**TEST RESULT**

| Sl. No. | PARAMETERS OF TEST               | VALUE                   |                         |                     |                   | Limit as per IS-2296 Class B (For Bathing) | Test Method          |
|---------|----------------------------------|-------------------------|-------------------------|---------------------|-------------------|--------------------------------------------|----------------------|
|         |                                  | 2 Pit Jamadoba Colliery | 3 Pit Jamadoba Colliery | 6 & 7 Pits Colliery | Digwadih Colliery |                                            |                      |
| 1.      | pH,                              | 7.61                    | 7.5                     | 7.6                 | 8.03              | 6.5-8.5                                    | IS-3025 (P-11): 1983 |
| 2.      | Total Dissolved Solids, mg/l     | 812                     | 320                     | 815                 | 911               | -                                          | IS-3025 (P-16): 1984 |
| 3.      | Total Suspended Solids, mg/l     | 18                      | 10.1                    | 25                  | 12.2              | -                                          | IS-3025(P-17) : 1984 |
| 4.      | Bio chemical Oxygen Demand, mg/l | 2.8                     | 2.4                     | 2.1                 | 3.1               | 3                                          | IS-3025 (P-44):1994  |
| 5.      | Chemical Oxygen Demand, mg/l     | 115                     | 26                      | 113                 | 81                | -                                          | IS-3025 (P-58):2006  |
| 6.      | Oil & Grease, mg/l               | 3.1                     | 2.3                     | 2.7                 | 3.1               | -                                          | IS-3025 (P-39):2021  |

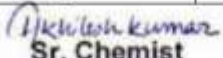
*Dr. Kishan Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

**Statements :**

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- The test results reported in this report are valid at the time of and under the stated condition of measurement.
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|--------------------------------------------------------|-----------------------|
| Ref. No.: - ARDS/25-26/STP/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  | Date: 24/11/2025                                                                                                                                                                                                 |                                           | <b>TEST REPORT OF SEWAGE</b>                                                                                                                                                                                                                                       |                         |                          |                                                        |                       |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li><li>Sample Code : 1. STP Outlet- Railway Colony<br/>2. STP Outlet -Digwadih 12 No Officers Colony<br/>3. STP Outlet -Digwadih 12 No. Supervisor flat<br/>4. STP Outlet- Jmb. Canteen<br/>5. STP Outlet- JCPP Canteen</li><li>Date of Sample Collection: 17/11/2025 To 18/11/2025</li><li>Date of Testing : 19/11/2025 To 23/11/2025</li><li>Test : pH, TDS, TSS, BOD, COD, OIL &amp; GREASE, and Fecal Coliform, Total Nitrogen, Total Phosphorous.</li></ul> |                                  | <b>TEST RESULT</b>                                                                                                                                                                                               |                                           |                                                                                                                                                                                                                                                                    |                         |                          |                                                        |                       |
| Sl. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PARAMETERS OF TEST               | VALUE                                                                                                                                                                                                            |                                           |                                                                                                                                                                                                                                                                    |                         |                          | As per MoEF&CC Notification for Sewage Treatment Plant | Test Method           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  | STP Outlet Railway Colony                                                                                                                                                                                        | STP Outlet Digwadih 12 No Officers Colony | STP Outlet Digwadih 12 No. Supervisor or flat                                                                                                                                                                                                                      | STP Outlet Jmb. Canteen | STP Outlet- JCPP Canteen |                                                        |                       |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | pH,                              | 7.89                                                                                                                                                                                                             | 8.5                                       | 7.8                                                                                                                                                                                                                                                                | 8.1                     | 8.12                     | 5.5-9.0                                                | IS-3025(P-11):1983    |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Total Dissolved Solids, mg/l     | 975                                                                                                                                                                                                              | 597                                       | 840                                                                                                                                                                                                                                                                | 1120                    | 1174                     | -                                                      | IS-3025(P-16):1984    |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Total Suspended Solids, mg/l     | 29                                                                                                                                                                                                               | 28                                        | 32                                                                                                                                                                                                                                                                 | 36                      | 38                       | 20                                                     | IS-3025(P-17):1984    |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Bio chemical Oxygen Demand, mg/l | 4.3                                                                                                                                                                                                              | 3.7                                       | 3.9                                                                                                                                                                                                                                                                | 4.7                     | 4.3                      | 10                                                     | IS-3025(P-44):1994    |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Chemical Oxygen Demand, mg/l     | 48                                                                                                                                                                                                               | 40                                        | 38.8                                                                                                                                                                                                                                                               | 48                      | 42                       | 50                                                     | IS-3025(P-58):2006    |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Oil & Grease, mg/l               | 2.6                                                                                                                                                                                                              | 2.7                                       | 2.2                                                                                                                                                                                                                                                                | 2.8                     | 3.2                      | -                                                      | IS-3025(P-39):2021    |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fecal Coliform (FC) (MPN/100ml)  | 140/100                                                                                                                                                                                                          | 142/100                                   | 138/100                                                                                                                                                                                                                                                            | 136/100                 | 142/100                  | Desirable 100 & Permissible 230                        | IS - 1622             |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Total Nitrogen as N, mg/l        | 7.3                                                                                                                                                                                                              | 6.9                                       | 6.2                                                                                                                                                                                                                                                                | 6.2                     | 7.1                      | 10                                                     | IS - 3025 (P-34):1988 |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Total Phosphorus as P, mg/l      | 0.76                                                                                                                                                                                                             | 0.77                                      | 0.68                                                                                                                                                                                                                                                               | 0.72                    | 0.73                     | 1.0                                                    | IS - 3025 (P-31):1988 |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                                                                                                               |                                           | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |                         |                          |                                                        |                       |
| <b>Statements :</b><br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.                                                                                                                                                                                                                                                                                                                   |                                  |                                                                                                                                                                                                                  |                                           |                                                                                                                                                                                                                                                                    |                         |                          |                                                        |                       |

|                                                                                   |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                    |
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Ref. No.: - ARDS/25-26/ETP/1

Date: 24/11/2025

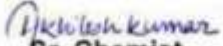
**TEST REPORT OF EFFLUENT**

- Name of the industry : M/S TATA STEEL, JAMADOBA,  
TATA STEEL LIMITED  
JAMADOBA GROUP PLANT,  
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Sample Code : 1. E.T.P. Outlet T.C.H.  
2. E.T.P. Outlet Garage
- Date of Sample Collection: 17/11/2025
- Date of Testing : 19/11/2025 To 23/11/2025
- Test : pH, TDS, TSS, BOD, COD, OIL & GREASE.

**TEST RESULT**

| Sl. No. | PARAMETERS OF TEST               | VALUE                |                      | General Standard for discharge of Environmental Pollutants , Inland Surface water by the MoEF&C | Test Method          |
|---------|----------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------------------|----------------------|
|         |                                  | E.T.P. Outlet T.C.H. | E.T.P. Outlet Garage |                                                                                                 |                      |
| 1.      | pH,                              | 9.21                 | 8.22                 | 5.5-9.0                                                                                         | IS-3025 (P-11): 1983 |
| 2.      | Total Dissolved Solids, mg/l     | 794                  | 624                  | -                                                                                               | IS-3025 (P-16): 1984 |
| 3.      | Total Suspended Solids, mg/l     | 88                   | 81                   | 100                                                                                             | IS-3025(P-17) : 1984 |
| 4.      | Bio chemical Oxygen Demand, mg/l | 11.5                 | 8.4                  | 30                                                                                              | IS-3025 (P-44):1994  |
| 5.      | Chemical Oxygen Demand, mg/l     | 98                   | 66                   | 250                                                                                             | IS-3025 (P-58):2006  |
| 6.      | Oil & Grease, mg/l               | 3.4                  | 3.5                  | 10                                                                                              | IS-3025 (P-39):2021  |

Note : BDL - Below Detection Limit

  
Sr. Chemist  
Aditi R&D Services



  
Quality Manager  
Aditi R&D Services, Sindri

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Mobile: 09471358402, 09431512608

Ref. No.: - ARDS/25-26/DW/1

Date: 24/11/2025

**TEST REPORT OF DRINKING WATER**

- Name of the industry : M/S TATA STEEL, JAMADOBA,  
TATA STEEL LIMITED  
JAMADOBA GROUP PLANT,  
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Sample Code : 1. Canteen- Jamadoba Colliery  
2. Canteen- Jamadoba Washery  
3. Canteen- Digwadih Colliery  
4. Canteen- 6&7 Pits Colliery
- Date of Sample Collection: 18/11/2025
- Date of Testing : 19/11/2025 To 23/11/2025
- Test :  
Colour, Odour, Taste, Turbidity, pH, Total Hardness, Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compound, Mercury, Cadmium, Arsenic, Cyanide, Lead, Zinc, Total Coliform, Total Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

**TEST RESULT**

| Sl. No | PARAMETERS OF TEST                         | VALUE                      |                           |                           |                            | IS as per IS 10500:2012 |              | Test Method         |
|--------|--------------------------------------------|----------------------------|---------------------------|---------------------------|----------------------------|-------------------------|--------------|---------------------|
|        |                                            | Canteen- Jamadoba Colliery | Canteen- Jamadoba Washery | Canteen Digwadih Colliery | Canteen- 6&7 Pits Colliery | Desirab le              | Permi ssible |                     |
| 1.     | Colour, (Hazen Unit)                       | 1                          | 1                         | 1                         | 1                          | 5.00                    | 15.0         | IS 3025 (P-4):2021  |
| 2.     | Odour                                      | Agreeable                  | Agreeable                 | Agreeable                 | Agreeable                  | Agreeabl e              | Agree able   | IS 3025 (P-5):2018  |
| 3.     | Taste                                      | Agreeable                  | Agreeable                 | Agreeable                 | Agreeable                  | Agreeabl e              | Agree able   | IS 3025 (P-7):2017  |
| 4.     | Turbidity, NTU                             | 0.7                        | 0.8                       | 0.5                       | 0.8                        | 1.0                     | 5.0          | IS 3025 (P-10):1984 |
| 5.     | pH                                         | 7.9                        | 7.4                       | 8.4                       | 8.3                        | 6.5-8.5                 | No. Relax.   | IS-3025 (P-11):1983 |
| 6.     | Total Hardness as CaCO <sub>3</sub> , mg/l | 636                        | 440                       | 652                       | 348.0                      | 200                     | 600          | IS 3025 (P-21):2009 |
| 7.     | Chloride as Cl, mg/l                       | 106                        | 68                        | 86                        | 69                         | 250                     | 1000         | IS 3025 (P-32):1988 |
| 8.     | Res. Free chlorine as Cl <sub>2</sub> mg/l | 0.124                      | 0.321                     | 0.141                     | 0.123                      | 0.20                    | 1.0          | IS 3025 (P-26):2021 |
| 9.     | Total Dissolved Solids, mg/l               | 735                        | 540                       | 729                       | 310                        | 500                     | 2000         | IS 3025 (P-16):1984 |
| 10.    | Calcium as Ca, mg/l                        | 48                         | 40                        | 52.8                      | 48.0                       | 75                      | 200          | IS 3025 (P-40):1991 |
| 11.    | Copper as Cu, mg/l                         | 0.072                      | 0.082                     | 0.087                     | 0.093                      | 0.05                    | 1.5          | IS 3025 (P-42):1992 |

Continued on Page 2

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Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

- 2 -

| Sl. No. | PARAMETERS OF TEST                                           | VALUE                     |                          |                           |                           | IS as per IS 10500:1991 |             | Test Method         |
|---------|--------------------------------------------------------------|---------------------------|--------------------------|---------------------------|---------------------------|-------------------------|-------------|---------------------|
|         |                                                              | Canteen-Jamadoba Colliery | Canteen Jamadoba Washery | Canteen Digwadih Colliery | Canteen-6&7 Pits Colliery | Desirable               | Permissible |                     |
| 12.     | Manganese as Mn, mg/l                                        | 0.24                      | 0.26                     | 0.21                      | 0.28                      | 0.10                    | 0.30        | IS 3025 (P-59):2006 |
| 13.     | Sulphate as SO <sub>4</sub> , mg/l                           | 118.2                     | 102.4                    | 119.9                     | 75.5                      | 200                     | 400         | IS 3025 (P-24):1986 |
| 14.     | Nitrate as NO <sub>3</sub> , mg/l                            | 6.3                       | 5.8                      | 6.0                       | 6.8                       | 45                      | No. Relax   | IS 3025 (P-34):1988 |
| 15.     | Fluoride as F, mg/l                                          | 0.6                       | 0.5                      | 0.6                       | 0.4                       | 1.0                     | 1.5         | IS 3025 (P-60):2008 |
| 16.     | Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH) mg/l | BDL                       | BDL                      | BDL                       | BDL                       | 0.001                   | 0.002       | IS 3025 (P-43):1992 |
| 17.     | Mercury as Hg, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                       | 0.001                   | No. Relax   | IS 3025 (P-48):1994 |
| 18.     | Cadmium as Cd, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                       | 0.003                   | No. Relax   | IS 3025 (P-41):1992 |
| 19.     | Arsenic as As, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                       | 0.01                    | No. Relax   | IS 3025 (P-37):1988 |
| 20.     | Cyanide as CN, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                       | 0.05                    | No. Relax   | IS 3025 (P-27):1986 |
| 21.     | Lead as Pb, mg/l                                             | N.T.                      | N.T.                     | N.T.                      | N.T.                      | 0.01                    | No. Relax   | IS 3025 (P-47):1994 |
| 22.     | Zinc as Zn, mg/l,                                            | 2.4                       | 2.2                      | 2.5                       | 2.6                       | 5                       | 15          | IS 3025 (P-42):1992 |
| 23.     | Total Coliform, No./100ml                                    | Absent                    | Absent                   | Absent                    | Absent                    | Absent                  | Absent      | IS 3025 (P-49):1994 |
| 24.     | Total Chromium as Cr, mg/l                                   | 0.12                      | 0.013                    | 0.012                     | 0.014                     | 0.05                    | No. Relax   | IS 3025 (P-52):2003 |
| 25.     | Mineral Oil, mg/l                                            | BDL                       | BDL                      | BDL                       | BDL                       | 0.5                     | No. Relax   | IS 3025 (P-39):1989 |
| 26.     | Alkalinity as CaCO <sub>3</sub> , mg/l,                      | 578.8                     | 556.4                    | 559.5                     | 210.2                     | 200                     | 600         | IS 3025 (P-23):1983 |
| 27.     | Aluminium as Al, mg/l                                        | BDL                       | BDL                      | BDL                       | BDL                       | 0.03                    | 0.2         | IS 3025 (P-55):2003 |
| 28.     | Boron as B, mg/l                                             | BDL                       | BDL                      | BDL                       | BDL                       | 0.5                     | 1.0         | IS 3025 (P-57):2005 |

NOTE: BDL - Below Detection Limit

*Akhilesh Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

**Statements :**

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2. The test results reported in this report are valid at the time of and under the stated condition of measurement.
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <h2 style="margin:0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin:0;">Testing Laboratory</h3> <p style="margin:0;"><b>NABL ACCREDITED</b></p> <p style="margin:0;">(A Constituent Board of Quality Council of India)</p> <p style="margin:0;"><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b></p> | <p>Plot No. - I-B-17 (P)<br/>Sindri, Industrial Area,<br/>P.O. - Domgarh, Dist. - Dhanbad<br/>Jharkhand - 828107<br/>Email ID: sindriaditi@gmail.com<br/>Website: aditimdsservices.com<br/>Phone: 0326-2952377 (O),<br/>Fax: 0326-2952377<br/>Mobile: 09471358492, 09431512608</p> |                     |                      |               |                  |                           |                         |             |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|---------------|------------------|---------------------------|-------------------------|-------------|--------------------|
| Ref. No.: - ARDS/25-26/GW/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                | Date: 24/11/2025                                                                                                                                                                                                                                                                   |                     |                      |               |                  |                           |                         |             |                    |
| <b><u>TEST REPORT OF GROUND WATER</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                    |                     |                      |               |                  |                           |                         |             |                    |
| <ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Sample Code :                          <ul style="list-style-type: none"> <li>1. Purnadih (Jorapokhar)</li> <li>2. Digwadih 10 No F&amp;J.</li> <li>3. Kalimela Kalimandir.</li> <li>4. Upper Dungari</li> <li>5. Kenduadih Basti.</li> <li>6. 6&amp; 7 Pits (Auodhya Nagri)</li> </ul> </li> <li>• Date of Sample Collection : 18/11/2025 to 19/11/2025</li> <li>• Date of Testing : 20/11/2025 to 24/11/2025</li> <li>• Test : Colour, Odour, Taste, Turbidity, pH, Total Hardness, Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compound, Mercury, Cadmium, Arsenic, Cyanide, Lead, Zinc, Total Coliform, Chromium, Mineral Oil, Alkalinity, Aluminium &amp; Boron.</li> </ul> |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                    |                     |                      |               |                  |                           |                         |             |                    |
| <b><u>TEST RESULT</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                    |                     |                      |               |                  |                           |                         |             |                    |
| Sl. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PARAMETERS OF TEST                                                                                                                                                                                                                                                                                                             | VALUE                                                                                                                                                                                                                                                                              |                     |                      |               |                  |                           | IS as per IS 10500:1991 |             | Test Method        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                | Purnadih (Jorapokhar)                                                                                                                                                                                                                                                              | Digwadih 10 No F&J. | Kalimela Kalimandir. | Upper Dungari | Kenduadih Basti. | 6& 7 Pits (Auodhya Nagri) | Desirable               | Permissible |                    |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Colour, (Hazen Unit)                                                                                                                                                                                                                                                                                                           | 1                                                                                                                                                                                                                                                                                  | 1                   | 1                    | 1             | 1                | 1                         | 5                       | 15          | IS 3025 (P-4):2021 |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Temperature °C                                                                                                                                                                                                                                                                                                                 | 25                                                                                                                                                                                                                                                                                 | 24                  | 20                   | 25            | 22               | 22                        | -                       | -           | -                  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Electrical Conductivity, µmhos/cm                                                                                                                                                                                                                                                                                              | 1210                                                                                                                                                                                                                                                                               | 1850                | 1570                 | 1400          | 850              | 1350                      | -                       | -           | -                  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Total Dissolved Solids, mg/l                                                                                                                                                                                                                                                                                                   | 712                                                                                                                                                                                                                                                                                | 1081                | 978.4                | 897.2         | 537.5            | 842                       | 500                     | 2000        | IS 3025(P-16):1984 |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | pH                                                                                                                                                                                                                                                                                                                             | 7.4                                                                                                                                                                                                                                                                                | 7.6                 | 7.27                 | 7.56          | 7.79             | 7.21                      | 6.5-8.5                 | No Relax    | IS-3025(P-11):1983 |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Total Hardness as CaCO <sub>3</sub> , mg/l                                                                                                                                                                                                                                                                                     | 568                                                                                                                                                                                                                                                                                | 632                 | 310                  | 512           | 424              | 320                       | 200                     | 600         | IS 3025(P-21):2009 |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Calcium as Ca, mg/l                                                                                                                                                                                                                                                                                                            | 138                                                                                                                                                                                                                                                                                | 90                  | 71                   | 126           | 128              | 95                        | 75                      | 200         | IS 3025(P-40):1991 |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Magnesium as Mg, mg/l                                                                                                                                                                                                                                                                                                          | 52.8                                                                                                                                                                                                                                                                               | 66.1                | 57.3                 | 48            | 71               | 56.25                     | 30                      | 100         | IS 3025(P-46):1994 |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Chloride as Cl, mg/l                                                                                                                                                                                                                                                                                                           | 38                                                                                                                                                                                                                                                                                 | 84                  | 197.8                | 100.7         | 69.82            | 159                       | 250                     | 1000        | IS 3025(P-32):1988 |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fluoride as F, mg/l                                                                                                                                                                                                                                                                                                            | 0.3                                                                                                                                                                                                                                                                                | 0.5                 | 0.5                  | 0.4           | 0.3              | 0.4                       | 1.0                     | 1.5         | IS 3025(P-60):2008 |

Continued on Page -2

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Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II



## ADITI R&D SERVICES

### Testing Laboratory

**NABL ACCREDITED**

(A Constituent Board of Quality Council of India)

ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified

Plot No. - I-B-17 (P)  
Sindri, Industrial Area,  
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- 2 -

| Sl. No | PARAMETERS OF TEST                      | VALUE                 |                     |                      |               |                   |                            | IS as per IS 10500:1991 |             | Test Method        |
|--------|-----------------------------------------|-----------------------|---------------------|----------------------|---------------|-------------------|----------------------------|-------------------------|-------------|--------------------|
|        |                                         | Purnadih (Jorapokhar) | Digwadih 10 No F&J. | Kalimela Kalimandir. | Upper Dungari | Kendu adih Basti. | 6 & 7 Pits (Auodhya Nagri) | Desirable               | Permissible |                    |
| 11     | Sulphate as SO <sub>4</sub> , mg/l      | 120.0                 | 126.16              | 117.9                | 131.5         | 98.2              | 113.5                      | 200                     | 400         | IS 3025(P-24):1986 |
| 12     | Nitrate as NO <sub>3</sub> , mg/l       | 8.4                   | 9.6                 | 5.6                  | 5.8           | 6.2               | 5.4                        | 45                      | No. Relax   | IS 3025(P-34):1988 |
| 13     | Alkalinity as CaCO <sub>3</sub> , mg/l, | 1120                  | 962.0               | 625                  | 800           | 590               | 520                        | 200                     | 600         | IS 3025(P-23):1983 |
| 14     | Lead as Pb, mg/l                        | N.T.                  | N.T.                | N.T.                 | N.T.          | N.T.              | N.T.                       | 0.01                    | No. Relax   | IS 3025(P-47):1994 |
| 15     | Zinc as Zn, mg/l,                       | 2.3                   | 2.1                 | 2.6                  | 2.5           | 2.6               | 2.4                        | 5                       | 15          | IS 3025(P-42):1992 |
| 16     | Iron a Fe, mg/l                         | 0.076                 | 0.079               | 0.083                | 0.075         | 0.08              | 0.094                      | 1.0                     | No. Relax   | IS 3025(P-53):2003 |
| 17     | Copper as Cu, mg/l                      | 0.068                 | 0.075               | 0.072                | 0.062         | 0.043             | 0.34                       | 0.05                    | 1.5         | IS3025 (P-42):1992 |
| 18     | Mercury as Hg, mg/l                     | BDL                   | BDL                 | BDL                  | BDL           | BDL               | BDL                        | 0.001                   | No. Relax   | IS 3025(P-48):1994 |
| 19     | Cadmium as Cd, mg/l                     | BDL                   | BDL                 | BDL                  | BDL           | BDL               | BDL                        | 0.003                   | No. Relax   | IS 3025(P-41):1992 |
| 20     | Nickel as Ni, mg/l                      | BDL                   | BDL                 | BDL                  | BDL           | BDL               | BDL                        | 0.02                    | No. Relax   | IS 3025(P-37):1992 |
| 21     | Arsenic as As, mg/l                     | BDL                   | BDL                 | BDL                  | BDL           | BDL               | BDL                        | 0.01                    | No. Relax   | IS 3025(P-37):1988 |
| 22     | Cyanide as CN, mg/l                     | BDL                   | BDL                 | BDL                  | BDL           | BDL               | BDL                        | 0.05                    | No. Relax   | IS 3025(P-27):1986 |
| 23     | Total Chromium as Cr, mg/l              | 0.02                  | 0.03                | 0.03                 | 0.02          | 0.03              | 0.01                       | 0.05                    | No. Relax   | IS 3025(P-52):2003 |

NOTE: BDL - Below Detection Limit

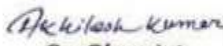
*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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|                                                                                                                                                                                                                                                                                                             |                                                            | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br>NABL ACCREDITED & REGISTERED BY JSPCB RANCHI<br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist.- Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdsservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Ref. No.: - ARDS/25-26/AAQ/1                                                                                                                                                                                                                                                                                                                                                                 |                                                            |                                                                                                                                                                                                                                        |                       | Date: 29/03/2026                                                                                                                                                                                                                                                   |           |
| <b>TEST REPORT OF AMBIENT AIR QUALITY</b>                                                                                                                                                                                                                                                                                                                                                    |                                                            |                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                    |           |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED, JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 25/03/2026 – 26/03/2026</li><li>Date of Testing : 27/03/2026 – 29/03/2026</li><li>Test Procedure : As per IS-5182</li></ul> |                                                            |                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                    |           |
| <b>TEST RESULTS</b>                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                    |           |
| <b>LOCATION – CENTRAL WORKSHOP AREA, JAMADOBA</b>                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                    |           |
| Environmental Conditions During Testing and Analysis                                                                                                                                                                                                                                                                                                                                         |                                                            | Ambient Temperature                                                                                                                                                                                                                    | 27°C ± 2°C            | Relative Humidity                                                                                                                                                                                                                                                  | 50% ± 10% |
| Sl No.                                                                                                                                                                                                                                                                                                                                                                                       | Particulars                                                | Value                                                                                                                                                                                                                                  | NAAQ - CPCB STANDARD  |                                                                                                                                                                                                                                                                    |           |
| 1.                                                                                                                                                                                                                                                                                                                                                                                           | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 92.82                                                                                                                                                                                                                                  | 100 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |           |
| 2.                                                                                                                                                                                                                                                                                                                                                                                           | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 55.39                                                                                                                                                                                                                                  | 60 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |           |
| 3.                                                                                                                                                                                                                                                                                                                                                                                           | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 21.0                                                                                                                                                                                                                                   | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |           |
| 4.                                                                                                                                                                                                                                                                                                                                                                                           | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 52.46                                                                                                                                                                                                                                  | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |           |
| 5.                                                                                                                                                                                                                                                                                                                                                                                           | Ozone, µg/m <sup>3</sup>                                   | 12.40                                                                                                                                                                                                                                  | 180 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |           |
| 6.                                                                                                                                                                                                                                                                                                                                                                                           | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 22.50                                                                                                                                                                                                                                  | 400 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                    |           |
| 7.                                                                                                                                                                                                                                                                                                                                                                                           | CO, mg/m <sup>3</sup>                                      | 0.89                                                                                                                                                                                                                                   | 4 mg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |           |
| 8.                                                                                                                                                                                                                                                                                                                                                                                           | Pb, µg/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                                                    | 1 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |           |
| 9.                                                                                                                                                                                                                                                                                                                                                                                           | As, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                                                    | 6 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |           |
| 10.                                                                                                                                                                                                                                                                                                                                                                                          | Ni, ng/m <sup>3</sup>                                      | BDL                                                                                                                                                                                                                                    | 20 ng/m <sup>3</sup>  |                                                                                                                                                                                                                                                                    |           |
| 11.                                                                                                                                                                                                                                                                                                                                                                                          | Benzene, µg/m <sup>3</sup>                                 | BDL                                                                                                                                                                                                                                    | 5 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |           |
| 12.                                                                                                                                                                                                                                                                                                                                                                                          | Benzoapyrene ng/m <sup>3</sup>                             | BDL                                                                                                                                                                                                                                    | 1 ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                    |           |
| NOTE: BDL - Below Detection Limit                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                    |           |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                                     |                                                            |                                                                                                                                                     |                       | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |           |
| <b>Statements :</b><br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.                  |                                                            |                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                    |           |

|                                                                                   |                                                                            |                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------|
|  | <b>ADITI R&amp;D SERVICES</b>                                              | Plot No. - I-B-17 (P)            |
|                                                                                   | <b>Testing Laboratory</b>                                                  | Sindri, Industrial Area,         |
|                                                                                   | <b>NABL ACCREDITED &amp; REGISTERED BY JSPCB RANCHI</b>                    | P.O. - Domgarh, Dist.- Dhanbad   |
|                                                                                   | <b>(A Constituent Board of Quality Council of India)</b>                   | Jharkhand - 828107               |
|                                                                                   | <b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b> | Email ID: sindriaditi@gmail.com  |
|                                                                                   |                                                                            | Website: aditirdservices.com     |
|                                                                                   |                                                                            | Phone: 0326-2952377 (O),         |
|                                                                                   |                                                                            | Fax: 0326-2952377                |
|                                                                                   |                                                                            | Mobile: 09471358492, 09431512608 |

Ref. No.: - ARDS/25-26/ AAQ/2

Date: 29/03/2026

**TEST REPORT OF AMBIENT AIR QUALITY**

- Name of the industry : M/S TATA STEEL, JAMADOBA,  
TATA STEEL LIMITED  
JAMADOBA GROUP PLANT,  
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 25/03/2026 – 26/03/2026
- Date of Testing : 27/03/2026 – 29/03/2026
- Test Procedure : As per IS-5182

**TEST RESULTS**

**LOCATION – OFFICER'S COLONY, 12 NO DIGWADIH**

|                                                            |                                                            |                        |                       |                      |        |
|------------------------------------------------------------|------------------------------------------------------------|------------------------|-----------------------|----------------------|--------|
| Environmental Conditions<br>During Testing<br>and Analysis |                                                            | Ambient<br>Temperature | 27°C ± 2              | Relative<br>Humidity | 50%±10 |
| SI No.                                                     | Particulars                                                | Value                  | NAAQ - CPCB STANDARD  |                      |        |
| 1.                                                         | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 64.03                  | 100 µg/m <sup>3</sup> |                      |        |
| 2.                                                         | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 42.65                  | 60 µg/m <sup>3</sup>  |                      |        |
| 3.                                                         | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 17.75                  | 80 µg/m <sup>3</sup>  |                      |        |
| 4.                                                         | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 55.49                  | 80 µg/m <sup>3</sup>  |                      |        |
| 5.                                                         | Ozone, µg/m <sup>3</sup>                                   | 14.11                  | 180 µg/m <sup>3</sup> |                      |        |
| 6.                                                         | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 24.78                  | 400 µg/m <sup>3</sup> |                      |        |
| 7.                                                         | CO, mg/m <sup>3</sup>                                      | 0.78                   | 4 mg/m <sup>3</sup>   |                      |        |
| 8.                                                         | Pb, µg/m <sup>3</sup>                                      | BDL                    | 1 µg/m <sup>3</sup>   |                      |        |
| 9.                                                         | As, ng/m <sup>3</sup>                                      | BDL                    | 6ng/m <sup>3</sup>    |                      |        |
| 10.                                                        | Ni, ng/m <sup>3</sup>                                      | BDL                    | 20ng/m <sup>3</sup>   |                      |        |
| 11.                                                        | Benzene, µg/m <sup>3</sup>                                 | BDL                    | 5 µg/m <sup>3</sup>   |                      |        |
| 12.                                                        | Benzoapyrene ng/m <sup>3</sup>                             | BDL                    | 1ng/m <sup>3</sup>    |                      |        |

NOTE: BDL - Below Detection Limit

*Akilesh Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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|                                                                                   |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br>NABL ACCREDITED & REGISTERED BY JSPCB RANCHI<br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ref. No.: - ARDS/25-26/ AAQ/3

Date: 30/03/2026

**TEST REPORT OF AMBIENT AIR QUALITY**

- Name of the industry : M/S TATA STEEL, JAMADOBA,  
TATA STEEL LIMITED  
JAMADOBA GROUP PLANT,  
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 26/03/2026 – 27/03/2026
- Date of Testing : 28/03/2026 – 30/03/2026
- Test Procedure : As per IS-5182

**TEST RESULTS**

**LOCATION – 6&7 PITS COLLIERY OFFICE**

|                                                            |                                                            |                        |                       |                      |          |
|------------------------------------------------------------|------------------------------------------------------------|------------------------|-----------------------|----------------------|----------|
| Environmental Conditions<br>During Testing<br>and Analysis |                                                            | Ambient<br>Temperature | 27°C ± 2              | Relative<br>Humidity | 50% ± 10 |
| SI No.                                                     | Particulars                                                | Value                  | NAAQ - CPCB STANDARD  |                      |          |
| 1.                                                         | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 97.3                   | 100 µg/m <sup>3</sup> |                      |          |
| 2.                                                         | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 56.45                  | 60 µg/m <sup>3</sup>  |                      |          |
| 3.                                                         | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 19.39                  | 80 µg/m <sup>3</sup>  |                      |          |
| 4.                                                         | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 17.80                  | 80 µg/m <sup>3</sup>  |                      |          |
| 5.                                                         | Ozone, µg/m <sup>3</sup>                                   | 12.38                  | 180 µg/m <sup>3</sup> |                      |          |
| 6.                                                         | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 27.30                  | 400 µg/m <sup>3</sup> |                      |          |
| 7.                                                         | CO, mg/m <sup>3</sup>                                      | 1.04                   | 4 mg/m <sup>3</sup>   |                      |          |
| 8.                                                         | Pb, µg/m <sup>3</sup>                                      | BDL                    | 1 µg/m <sup>3</sup>   |                      |          |
| 9.                                                         | As, ng/m <sup>3</sup>                                      | BDL                    | 6 ng/m <sup>3</sup>   |                      |          |
| 10.                                                        | Ni, ng/m <sup>3</sup>                                      | BDL                    | 20 ng/m <sup>3</sup>  |                      |          |
| 11.                                                        | Benzene, µg/m <sup>3</sup>                                 | BDL                    | 5 µg/m <sup>3</sup>   |                      |          |
| 12.                                                        | Benzoapyrene ng/m <sup>3</sup>                             | BDL                    | 1 ng/m <sup>3</sup>   |                      |          |

NOTE: BDL - Below Detection Limit

*Akilesh Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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|                                                           |                                                            | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b>                                                |                       | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist.- Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |        |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| NABL ACCREDITED & REGISTERED BY JSPCB RANCHI                                                                                               |                                                            | (A Constituent Board of Quality Council of India)                                                         |                       | ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified                                                                                                                                                                                               |        |
| Ref. No.: - ARDS/25-26/ AAQ/4                                                                                                              |                                                            | Date: 30/03/2026                                                                                          |                       |                                                                                                                                                                                                                                                                   |        |
| <b>TEST REPORT OF AMBIENT AIR QUALITY</b>                                                                                                  |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| • Name of the industry                                                                                                                     |                                                            | : M/S TATA STEEL, JAMADOBA,<br>TATA STEEL LIMITED<br>JAMADOBA GROUP PLANT,<br>DIST. - DHANBAD (JHARKHAND) |                       |                                                                                                                                                                                                                                                                   |        |
| • Work Order Ref. NO.:                                                                                                                     |                                                            | : 4700126557/932 Date:- 29/05/2024                                                                        |                       |                                                                                                                                                                                                                                                                   |        |
| • Date of Sample Collection                                                                                                                |                                                            | : 26/03/2026 – 27/03/2026                                                                                 |                       |                                                                                                                                                                                                                                                                   |        |
| • Date of Testing                                                                                                                          |                                                            | : 28/03/2026 – 30/03/2026                                                                                 |                       |                                                                                                                                                                                                                                                                   |        |
| • Test Procedure                                                                                                                           |                                                            | : As per IS-5182                                                                                          |                       |                                                                                                                                                                                                                                                                   |        |
| <b>TEST RESULTS</b>                                                                                                                        |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| <b>LOCATION – TATA MAIN HOSPITAL</b>                                                                                                       |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| Environmental Conditions<br>During Testing<br>and Analysis                                                                                 |                                                            | Ambient Temperature                                                                                       | 27°C±2°C              | Relative Humidity                                                                                                                                                                                                                                                 | 50%±10 |
| SI No.                                                                                                                                     | Particulars                                                | Value                                                                                                     | NAAQ - CPCB STANDARD  |                                                                                                                                                                                                                                                                   |        |
| 1.                                                                                                                                         | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>  | 86.24                                                                                                     | 100 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                   |        |
| 2.                                                                                                                                         | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> | 49.3                                                                                                      | 60 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                   |        |
| 3.                                                                                                                                         | SO <sub>2</sub> , µg/m <sup>3</sup>                        | 25.82                                                                                                     | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                   |        |
| 4.                                                                                                                                         | NO <sub>2</sub> , µg/m <sup>3</sup>                        | 66.50                                                                                                     | 80 µg/m <sup>3</sup>  |                                                                                                                                                                                                                                                                   |        |
| 5.                                                                                                                                         | Ozone, µg/m <sup>3</sup>                                   | 14.9                                                                                                      | 180 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                   |        |
| 6.                                                                                                                                         | NH <sub>3</sub> , µg/m <sup>3</sup>                        | 25.60                                                                                                     | 400 µg/m <sup>3</sup> |                                                                                                                                                                                                                                                                   |        |
| 7.                                                                                                                                         | CO, mg/m <sup>3</sup>                                      | 0.85                                                                                                      | 4 mg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                   |        |
| 8.                                                                                                                                         | Pb, µg/m <sup>3</sup>                                      | BDL                                                                                                       | 1 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                   |        |
| 9.                                                                                                                                         | As, ng/m <sup>3</sup>                                      | BDL                                                                                                       | 6ng/m <sup>3</sup>    |                                                                                                                                                                                                                                                                   |        |
| 10.                                                                                                                                        | Ni, ng/m <sup>3</sup>                                      | BDL                                                                                                       | 20ng/m <sup>3</sup>   |                                                                                                                                                                                                                                                                   |        |
| 11.                                                                                                                                        | Benzene, µg/m <sup>3</sup>                                 | BDL                                                                                                       | 5 µg/m <sup>3</sup>   |                                                                                                                                                                                                                                                                   |        |
| 12.                                                                                                                                        | Benzoapyrene ng/m <sup>3</sup>                             | BDL                                                                                                       | 1ng/m <sup>3</sup>    |                                                                                                                                                                                                                                                                   |        |
| NOTE: BDL - Below Detection Limit                                                                                                          |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| Sr. Chemist<br>Aditi R&D Services                                                                                                          |                                                            |                        |                       | Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                                                                                                                     |        |
| <b>Statements :</b>                                                                                                                        |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                            |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                        |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |
| 3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory. |                                                            |                                                                                                           |                       |                                                                                                                                                                                                                                                                   |        |

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   |                                                                                                                                                                                                                    |                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|  | <h2 style="margin:0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin:0;">Testing Laboratory</h3> <p style="margin:0;"><b>NABL ACCREDITED &amp; REGISTERED BY JSPCB RANCHI</b></p> <p style="margin:0;">(A Constituent Board of Quality Council of India)</p> <p style="margin:0;"><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b></p> |                                           |                                                                                                                                                              |                                     | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist.- Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |                                       |                   |                                                                                                                                                                                                                    |                  |
|                                                                                   | <h3 style="margin:0;">TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING</h3>                                                                                                                                                                                                                                                                                      |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   |                                                                                                                                                                                                                    |                  |
|                                                                                   | Ref. No. & Date<br><b>ARDS/25-26/NOISE/1</b> Date: 29/03/2026                                                                                                                                                                                                                                                                                                   |                                           | NAME AND ADDRESS OF THE CLIENT<br><b>M/S TATA STEEL, JAMADOBA,</b><br><b>TATA STEEL LIMITED, JAMADOBA GROUP PLANT,</b><br><b>DIST. - DHANBAD (JHARKHAND)</b> |                                     |                                                                                                                                                                                                                                                                   |                                       |                   |                                                                                                                                                                                                                    |                  |
|                                                                                   | Date of Monitoring<br><b>25/03/2026 to 26/03/2026</b>                                                                                                                                                                                                                                                                                                           |                                           | Ambient Temperature<br><b>27°C±2°C%</b>                                                                                                                      | Relative Humidity<br><b>50%±10%</b> | Weather Condition<br><b>Clear</b>                                                                                                                                                                                                                                 | Status of the plant<br><b>Running</b> |                   |                                                                                                                                                                                                                    |                  |
| Work Order 4700126557/932<br>Date:- 29/05/2024                                    |                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   |                                                                                                                                                                                                                    |                  |
| <b>MONITORING RESULTS</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   |                                                                                                                                                                                                                    |                  |
| ad                                                                                | Place of Monitoring                                                                                                                                                                                                                                                                                                                                             | Day Time<br>(6 AM to 10 PM)<br>Avg. dB(A) |                                                                                                                                                              |                                     | Night Time<br>(10 PM to 6 AM)<br>Avg. dB(A)                                                                                                                                                                                                                       |                                       |                   | Noise level (Ambient standard)<br>for Industrial Area as per<br>CPCB Noise Pollution<br>(Regulation and Control)<br>(Amendment) Rules , 2000<br>notified vide S.O. 1046(E)<br>Dt. 22.11.2020<br>Limit in dB(A) Leq |                  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   | Day Time                                                                                                                                                                                                           | Night Time       |
|                                                                                   | LOCATION                                                                                                                                                                                                                                                                                                                                                        | MAX                                       | MIN                                                                                                                                                          | AVG. dB(A) Leq                      | MAX                                                                                                                                                                                                                                                               | MIN                                   | AVERAGE dB(A) Leq | Industrial Area                                                                                                                                                                                                    | Industrial Area  |
|                                                                                   | JAMADOBA GROUP                                                                                                                                                                                                                                                                                                                                                  |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   |                                                                                                                                                                                                                    |                  |
| 1.                                                                                | Central Workshop Area, Jamadoba.                                                                                                                                                                                                                                                                                                                                | 74.9                                      | 53.4                                                                                                                                                         | 71.92                               | 62.8                                                                                                                                                                                                                                                              | 46.2                                  | 59.88             | 75                                                                                                                                                                                                                 | 70               |
| 2.                                                                                | 6 & 7 Pits Colliery Office.                                                                                                                                                                                                                                                                                                                                     | 62.8                                      | 57.3                                                                                                                                                         | 60.87                               | 70.2                                                                                                                                                                                                                                                              | 50.6                                  | 67.24             |                                                                                                                                                                                                                    |                  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   | Residential Area                                                                                                                                                                                                   | Residential Area |
| 3.                                                                                | Officer Colony 12 No. Digwadih.                                                                                                                                                                                                                                                                                                                                 | 60.8                                      | 40.8                                                                                                                                                         | 57.83                               | 58.6                                                                                                                                                                                                                                                              | 49.2                                  | 51.22             | 65                                                                                                                                                                                                                 | 55               |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                   |                                       |                   | Silence Zone                                                                                                                                                                                                       | Silence Zone     |
| 4.                                                                                | Tata Main Hospital.                                                                                                                                                                                                                                                                                                                                             | 50.2                                      | 48.6                                                                                                                                                         | 49.47                               | 38.6                                                                                                                                                                                                                                                              | 32.4                                  | 36.52             | 50                                                                                                                                                                                                                 | 40               |

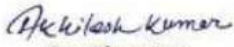
*Akhil Kumar*  
Sr. Chemist  
Aditi R&D Services

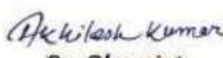


*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------|------|
| Ref. No.: - ARDS/25-26/MINER.                                                                                                                                                                                                                                                                                                                     |                             | Date: 31/03/2026                                                                                                                                                                                                                                                  |       |                                                                                                                                        |      |
| <b><u>TEST REPORT OF MINERALOGICAL COMPOSITION</u></b><br><b><u>OF PARTICULATE MATTER</u></b>                                                                                                                                                                                                                                                     |                             |                                                                                                                                                                                                                                                                   |       |                                                                                                                                        |      |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA,<br/>TATA STEEL LIMITED<br/>JAMADOBA GROUP PLANT,<br/>DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li><li>Date of Sample Collection : 27/03/2026</li><li>Date of Testing : 28/03/2026 – 31/03/2026</li></ul> |                             |                                                                                                                                                                                                                                                                   |       |                                                                                                                                        |      |
| <b><u>TEST RESULTS</u></b>                                                                                                                                                                                                                                                                                                                        |                             |                                                                                                                                                                                                                                                                   |       |                                                                                                                                        |      |
| SI No.                                                                                                                                                                                                                                                                                                                                            | Particulars                 | Mineralogical Composition (%)                                                                                                                                                                                                                                     |       |                                                                                                                                        |      |
|                                                                                                                                                                                                                                                                                                                                                   |                             | SiO <sub>2</sub>                                                                                                                                                                                                                                                  | FeO   | Al <sub>2</sub> O <sub>3</sub>                                                                                                         | CaO  |
| 1.                                                                                                                                                                                                                                                                                                                                                | 6 & 7 Pits Colliery office. | 1.77                                                                                                                                                                                                                                                              | 0.119 | 1.37                                                                                                                                   | 2.58 |
| 2.                                                                                                                                                                                                                                                                                                                                                | Tata Main Hospital          | 1.72                                                                                                                                                                                                                                                              | 0.108 | 1.12                                                                                                                                   | 2.43 |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                          |                             |                                                                                                                                                                                |       | <br>Quality Manager<br>Aditi R&D Services, Sindri |      |
| Statements :                                                                                                                                                                                                                                                                                                                                      |                             |                                                                                                                                                                                                                                                                   |       |                                                                                                                                        |      |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                                                                                                                                                                                                                                   |                             |                                                                                                                                                                                                                                                                   |       |                                                                                                                                        |      |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                                                                                                                                                                                                                               |                             |                                                                                                                                                                                                                                                                   |       |                                                                                                                                        |      |
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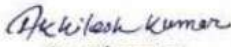
|                                                           |                                    | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b>                                                |                           | <b>Plot No. - I-B-17 (P)</b><br><b>Sindri, Industrial Area,</b><br><b>P.O. - Domgarh, Dist. - Dhanbad</b><br><b>Jharkhand - 828107</b><br><b>Email ID: sindriaditi@gmail.com</b><br><b>Website: aditimdservices.com</b><br><b>Phone: 0326-2952377 (O),</b><br><b>Fax: 0326-2952377</b><br><b>Mobile: 09471358492, 09431512608</b> |                      |
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| <b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b>                                                                 |                                    |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| Ref. No.: - ARDS/25-26/SW/1                                                                                                                |                                    | Date: 31/03/2026                                                                                          |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| <b><u>TEST REPORT OF SURFACE WATER</u></b>                                                                                                 |                                    |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| • Name of the industry                                                                                                                     |                                    | : M/S TATA STEEL, JAMADOBA,<br>TATA STEEL LIMITED<br>JAMADOBA GROUP PLANT,<br>DIST. - DHANBAD (JHARKHAND) |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| • Work Order Ref. NO.:                                                                                                                     |                                    | : 4700126557/932 Date:- 29/05/2024                                                                        |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| • Sample Code                                                                                                                              |                                    | : 1. Damodar River Up Stream<br>2. Damodar River Down Stream                                              |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| • Date of Sample Collection:                                                                                                               |                                    | : 26/03/2026                                                                                              |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| • Date of Testing                                                                                                                          |                                    | : 27/03/2026 – 31/03/2026                                                                                 |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| • Test                                                                                                                                     |                                    | : pH, TDS, Turbidity, DO, BOD, Cl, F, SO <sub>4</sub>                                                     |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| <b><u>TEST RESULT</u></b>                                                                                                                  |                                    |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| Sl. No.                                                                                                                                    | PARAMETERS OF TEST                 | VALUE                                                                                                     |                           | Limit as per IS 2296 Class - C                                                                                                                                                                                                                                                                                                    | Test Method          |
|                                                                                                                                            |                                    | Damodar River Up Stream                                                                                   | Damodar River Down Stream |                                                                                                                                                                                                                                                                                                                                   |                      |
| 1.                                                                                                                                         | pH                                 | 8.12                                                                                                      | 7.68                      | 6.5 -8.5                                                                                                                                                                                                                                                                                                                          | IS-3025 (P-11): 1983 |
| 2.                                                                                                                                         | Total Dissolved Solids, mg/l       | 550                                                                                                       | 460                       | 1500                                                                                                                                                                                                                                                                                                                              | IS-3025 (P-16): 1984 |
| 3.                                                                                                                                         | Turbidity, NTU                     | 3.6                                                                                                       | 2.7                       | -                                                                                                                                                                                                                                                                                                                                 | IS-3025 (P-10):1984  |
| 4.                                                                                                                                         | Dissolved Oxygen, mg/l             | 5.52                                                                                                      | 5.60                      | 4.0 (Min)                                                                                                                                                                                                                                                                                                                         | IS-3025 (P-38):1989  |
| 5.                                                                                                                                         | Bio chemical Oxygen Demand, mg/l   | 1.8                                                                                                       | 1.2                       | 3.0                                                                                                                                                                                                                                                                                                                               | IS-3025 (P-44):1994  |
| 6.                                                                                                                                         | Chloride as Cl, mg/l               | 54.30                                                                                                     | 40.73                     | 600 (Max.)                                                                                                                                                                                                                                                                                                                        | IS-3025 (P-32):1988  |
| 7.                                                                                                                                         | Fluoride as F, mg/l                | 0.05                                                                                                      | 0.05                      | 1.5                                                                                                                                                                                                                                                                                                                               | IS-3025 (P-60):2008  |
| 8.                                                                                                                                         | Sulphate as SO <sub>4</sub> , mg/l | 95.29                                                                                                     | 81.27                     | 400                                                                                                                                                                                                                                                                                                                               | IS-3025 (P-24):1986  |
| <br>Sr. Chemist<br>Aditi R&D Services                   |                                    |                        |                           | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                                                                                            |                      |
| <b>Statements :</b>                                                                                                                        |                                    |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                            |                                    |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                        |                                    |                                                                                                           |                           |                                                                                                                                                                                                                                                                                                                                   |                      |
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|                                                                                                                                                                                                                                                                                            |                                  | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br>NABL ACCREDITED & REGISTERED BY JSPCB RANCHI<br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                         |                     |                   | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Ref. No.: - ARDS/25-26/MWD/1                                                                                                                                                                                                                                                                                                                                                |                                  | Date: 31/03/2026                                                                                                                                                                                                                       |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| <b><u>TEST REPORT OF MINE WATER DISCHARGE</u></b>                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                                                                                                        |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| • Name of the industry :                                                                                                                                                                                                                                                                                                                                                    |                                  | M/S TATA STEEL, JAMADOBA,<br>TATA STEEL LIMITED<br>JAMADOBA GROUP PLANT,<br>DIST. - DHANBAD (JHARKHAND)                                                                                                                                |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| • Work Order Ref. NO.:                                                                                                                                                                                                                                                                                                                                                      |                                  | 4700126557/932 Date:- 29/05/2024                                                                                                                                                                                                       |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| • Sample Code :                                                                                                                                                                                                                                                                                                                                                             |                                  | 1. 2 Pit Jamadoba Colliery<br>2. 3 Pit Jamadoba Colliery<br>3. 6 & 7 Pits Colliery<br>4. Digwadih Colliery                                                                                                                             |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| • Date of Sample Collection:                                                                                                                                                                                                                                                                                                                                                |                                  | 26/03/2026 – 27/03/2026                                                                                                                                                                                                                |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| • Date of Testing :                                                                                                                                                                                                                                                                                                                                                         |                                  | 27/03/2026 – 31/03/2026                                                                                                                                                                                                                |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| • Test :                                                                                                                                                                                                                                                                                                                                                                    |                                  | pH, TDS, TSS, BOD, COD, OIL & GREASE.                                                                                                                                                                                                  |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| <b><u>TEST RESULT</u></b>                                                                                                                                                                                                                                                                                                                                                   |                                  |                                                                                                                                                                                                                                        |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |
| Sl. No.                                                                                                                                                                                                                                                                                                                                                                     | PARAMETERS OF TEST               | VALUE                                                                                                                                                                                                                                  |                         |                     |                   | Limit as per IS-2296 Class B (For Bathing)                                                                                                                                                                                                                         | Test Method          |
|                                                                                                                                                                                                                                                                                                                                                                             |                                  | 2 Pit Jamadoba Colliery                                                                                                                                                                                                                | 3 Pit Jamadoba Colliery | 6 & 7 Pits Colliery | Digwadih Colliery |                                                                                                                                                                                                                                                                    |                      |
| 1.                                                                                                                                                                                                                                                                                                                                                                          | pH,                              | 7.97                                                                                                                                                                                                                                   | 7.98                    | 7.18                | 7.78              | 6.5-8.5                                                                                                                                                                                                                                                            | IS-3025 (P-11): 1983 |
| 2.                                                                                                                                                                                                                                                                                                                                                                          | Total Dissolved Solids, mg/l     | 930                                                                                                                                                                                                                                    | 600.20                  | 610                 | 710.0             | -                                                                                                                                                                                                                                                                  | IS-3025 (P-16): 1984 |
| 3.                                                                                                                                                                                                                                                                                                                                                                          | Total Suspended Solids, mg/l     | 22.0                                                                                                                                                                                                                                   | 22.8                    | 18.0                | 24.0              | -                                                                                                                                                                                                                                                                  | IS-3025(P-17) : 1984 |
| 4.                                                                                                                                                                                                                                                                                                                                                                          | Bio chemical Oxygen Demand, mg/l | 2.8                                                                                                                                                                                                                                    | 2.4                     | 1.8                 | 2.8               | 3                                                                                                                                                                                                                                                                  | IS-3025 (P-44):1994  |
| 5.                                                                                                                                                                                                                                                                                                                                                                          | Chemical Oxygen Demand, mg/l     | 28.0                                                                                                                                                                                                                                   | 24.0                    | 20.0                | 24.0              | -                                                                                                                                                                                                                                                                  | IS-3025 (P-58):2006  |
| 6.                                                                                                                                                                                                                                                                                                                                                                          | Oil & Grease, mg/l               | 2.4                                                                                                                                                                                                                                    | 2.0                     | 2.0                 | 2.4               | -                                                                                                                                                                                                                                                                  | IS-3025 (P-39):2021  |
| <br>Sr. Chemist<br>Aditi R&D Services                                                                                                                                                                                                                                                    |                                  |                                                                                                                                                     |                         |                     |                   | <br>Quality Manager<br>Aditi R&D Services, Sindri                                                                                                                             |                      |
| <b>Statements :</b><br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory. |                                  |                                                                                                                                                                                                                                        |                         |                     |                   |                                                                                                                                                                                                                                                                    |                      |

| ADITI R&D SERVICES                                                                                                                         |                                  | Testing Laboratory                                                                                                                                                                             |                                                    |                                                            |                                  |                                   | NABL ACCREDITED & REGISTERED BY JSPCB RANCHI                          |  | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist.- Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------|----------------------------------|-----------------------------------|-----------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Ref. No.: - ARDS/25-26/STP/1                                                                                                               |                                  | TEST REPORT OF SEWAGE                                                                                                                                                                          |                                                    |                                                            |                                  |                                   | Date: 31/03/2026                                                      |  |                                                                                                                                                                                                                                                                   |  |
| • Name of the industry :                                                                                                                   |                                  | M/S TATA STEEL, JAMADOBA,<br>TATA STEEL LIMITED<br>JAMADOBA GROUP PLANT,<br>DIST. - DHANBAD (JHARKHAND)                                                                                        |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| • Work Order Ref. NO.:                                                                                                                     |                                  | 4700126557/932 Date:- 29/05/2024                                                                                                                                                               |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| • Sample Code :                                                                                                                            |                                  | 1. STP Outlet- Railway Colony<br>2. STP Outlet -Digwadih 12 No Officers Colony<br>3. STP Outlet -Digwadih 12 No. Supervisor flat<br>4. STP Outlet- Jmb. Canteen<br>5. STP Outlet- JCPP Canteen |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| • Date of Sample Collection:                                                                                                               |                                  | 26/03/2026 – 27/03/2026                                                                                                                                                                        |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| • Date of Testing :                                                                                                                        |                                  | 27/03/2026 – 31/03/2026                                                                                                                                                                        |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| • Test :                                                                                                                                   |                                  | pH, TDS, TSS, BOD, COD, OIL & GREASE,<br>and Fecal Coliform, Total Nitrogen, Total<br>Phosphorous.                                                                                             |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| TEST RESULT                                                                                                                                |                                  | VALUE                                                                                                                                                                                          |                                                    |                                                            |                                  |                                   | As per<br>MoEF&CC<br>Notification<br>for Sewage<br>Treatment<br>Plant |  | Test<br>Method                                                                                                                                                                                                                                                    |  |
| Sl.<br>No.                                                                                                                                 | PARAMETERS OF<br>TEST            | STP Outlet<br>Railway<br>Colony                                                                                                                                                                | STP Outlet<br>Digwadih 12<br>No Officers<br>Colony | STP<br>Outlet<br>Digwadih<br>12 No.<br>Supervis<br>or flat | STP<br>Outlet<br>Jmb.<br>Canteen | STP<br>Outlet-<br>JCPP<br>Canteen |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| 1.                                                                                                                                         | pH,                              | 6.84                                                                                                                                                                                           | 8.23                                               | 7.94                                                       | 7.38                             | 7.96                              | 5.5-9.0                                                               |  | IS-3025(P-11):1983                                                                                                                                                                                                                                                |  |
| 2.                                                                                                                                         | Total Dissolved Solids, mg/l     | 506                                                                                                                                                                                            | 510                                                | 530                                                        | 580                              | 640                               | -                                                                     |  | IS-3025(P-16):1984                                                                                                                                                                                                                                                |  |
| 3.                                                                                                                                         | Total Suspended Solids, mg/l     | 20.0                                                                                                                                                                                           | 18.2                                               | 19.6                                                       | 15.0                             | 18.8                              | 20                                                                    |  | IS-3025(P-17):1984                                                                                                                                                                                                                                                |  |
| 4.                                                                                                                                         | Bio chemical Oxygen Demand, mg/l | 4.6                                                                                                                                                                                            | 3.5                                                | 4.0                                                        | 3.0                              | 4.1                               | 10                                                                    |  | IS-3025(P-44):1994                                                                                                                                                                                                                                                |  |
| 5.                                                                                                                                         | Chemical Oxygen Demand, mg/l     | 40.0                                                                                                                                                                                           | 30.0                                               | 36.0                                                       | 24.0                             | 38.0                              | 50                                                                    |  | IS-3025(P-58):2006                                                                                                                                                                                                                                                |  |
| 6.                                                                                                                                         | Oil & Grease, mg/l               | 4.4                                                                                                                                                                                            | 3.2                                                | 3.0                                                        | 4.4                              | 4.0                               | -                                                                     |  | IS-3025(P-39):2021                                                                                                                                                                                                                                                |  |
| 7.                                                                                                                                         | Fecal Coliform (FC) (MPN/100ml)  | 80                                                                                                                                                                                             | 70                                                 | 78                                                         | 65                               | 68                                | Desirable 100 & Permissible 230                                       |  | IS - 1622                                                                                                                                                                                                                                                         |  |
| 8.                                                                                                                                         | Total Nitrogen as N, mg/l        | 3.2                                                                                                                                                                                            | 2.8                                                | 3.0                                                        | 2.6                              | 2.9                               | 10                                                                    |  | IS - 3025 (P-34):1988                                                                                                                                                                                                                                             |  |
| 9.                                                                                                                                         | Total Phosphorus as P, mg/l      | 0.075                                                                                                                                                                                          | 0.046                                              | 0.052                                                      | 0.048                            | 0.050                             | 1.0                                                                   |  | IS - 3025 (P-31):1988                                                                                                                                                                                                                                             |  |
| Sr. Chemist<br>Aditi R&D Services                                                                                                          |                                  |                                                                                                                                                                                                |                                                    |                                                            |                                  |                                   | Quality Manager<br>Aditi R&D Services, Sindri                         |  |                                                                                                                                                                                                                                                                   |  |
| Statements :                                                                                                                               |                                  |                                                                                                                                                                                                |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| 1. The test report refers only to the particular item(s) submitted for testing.                                                            |                                  |                                                                                                                                                                                                |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
| 2. The test results reported in this report are valid at the time of and under the stated condition of measurement.                        |                                  |                                                                                                                                                                                                |                                                    |                                                            |                                  |                                   |                                                                       |  |                                                                                                                                                                                                                                                                   |  |
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|                                                                                                                                                                                                                                                                                                                                                                                         |                                  | <b>ADITI R&amp;D SERVICES</b><br><b>Testing Laboratory</b><br>NABL ACCREDITED & REGISTERED BY JSPCB RANCHI<br>(A Constituent Board of Quality Council of India)<br>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified |                      | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O. - Domgarh, Dist. - Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditirndservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Ref. No.: - ARDS/25-26/ETP/1                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                                                                                                                                                                                                                        |                      | Date: 31/03/2026                                                                                                                                                                                                                                                    |                      |
| <b><u>TEST REPORT OF EFFLUENT</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                                                                                                                                                        |                      |                                                                                                                                                                                                                                                                     |                      |
| <ul style="list-style-type: none"><li>Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li><li>Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li><li>Sample Code : 1. E.T.P. Outlet T.C.H.<br/>2. E.T.P. Outlet Garage</li><li>Date of Sample Collection: 27/03/2026</li><li>Date of Testing : 27/03/2026 – 31/03/2026</li><li>Test : pH, TDS, TSS, BOD, COD, OIL &amp; GREASE.</li></ul> |                                  |                                                                                                                                                                                                                                        |                      |                                                                                                                                                                                                                                                                     |                      |
| <b><u>TEST RESULT</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                                                                                                                                                                                                                        |                      |                                                                                                                                                                                                                                                                     |                      |
| Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PARAMETERS OF TEST               | VALUE                                                                                                                                                                                                                                  |                      | General Standard for discharge of Environmental Pollutants, Inland Surface water by the MoEF&C                                                                                                                                                                      | Test Method          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  | E.T.P. Outlet T.C.H.                                                                                                                                                                                                                   | E.T.P. Outlet Garage |                                                                                                                                                                                                                                                                     |                      |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | pH,                              | 8.41                                                                                                                                                                                                                                   | 7.98                 | 5.5-9.0                                                                                                                                                                                                                                                             | IS-3025 (P-11): 1983 |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Total Dissolved Solids, mg/l     | 860.6                                                                                                                                                                                                                                  | 648                  | -                                                                                                                                                                                                                                                                   | IS-3025 (P-16): 1984 |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Total Suspended Solids, mg/l     | 60.0                                                                                                                                                                                                                                   | 65.6                 | 100                                                                                                                                                                                                                                                                 | IS-3025(P-17) : 1984 |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Bio chemical Oxygen Demand, mg/l | 2.2                                                                                                                                                                                                                                    | 4.1                  | 30                                                                                                                                                                                                                                                                  | IS-3025 (P-44):1994  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Chemical Oxygen Demand, mg/l     | 18.0                                                                                                                                                                                                                                   | 30.3                 | 250                                                                                                                                                                                                                                                                 | IS-3025 (P-58):2006  |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Oil & Grease, mg/l               | 3.6                                                                                                                                                                                                                                    | 4.0                  | 10                                                                                                                                                                                                                                                                  | IS-3025 (P-39):2021  |

Note : BDL - Below Detection Limit

  
Sr. Chemist  
Aditi R&D Services



  
Quality Manager  
Aditi R&D Services, Sindri

Statements :

1. The test report refers only to the particular item(s) submitted for testing.

2. The test results reported in this report are valid at the time of and under the stated condition of measurement.

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## ADITI R&D SERVICES

### Testing Laboratory

**NABL ACCREDITED & REGISTERED BY JSPCB RANCHI**

(A Constituent Board of Quality Council of India)

**ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified**

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Fax: 0326-2952377  
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/DW/1

Date: 31/03/2026

### TEST REPORT OF DRINKING WATER

- Name of the industry : M/S TATA STEEL, JAMADOBA,  
TATA STEEL LIMITED  
JAMADOBA GROUP PLANT,  
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Sample Code : 1. Canteen- Jamadoba Colliery  
2. Canteen- Jamadoba Washery  
3. Canteen- Digwadih Colliery  
4. Canteen- 6&7 Pits Colliery
- Date of Sample Collection: 27/03/2026
- Date of Testing : 27/03/2026 – 31/03/2026
- Test :  
Colour, Odour, Taste, Turbidity, pH, Total Hardness, Iron, Chloride, Res. Free chlorine, Total Dissolved Solids, Calcium, Copper, Manganese, Sulphate, Nitrate, Fluoride, Phenolic Compound, Mercury, Cadmium, Arsenic, Cyanide, Lead, Zinc, Total Coliform, Total Chromium, Mineral Oil, Alkalinity, Aluminium & Boron.

### TEST RESULT

| Sl. No | PARAMETERS OF TEST                         | VALUE                     |                          |                           |                           | IS as per IS 10500:2012 |             | Test Method         |
|--------|--------------------------------------------|---------------------------|--------------------------|---------------------------|---------------------------|-------------------------|-------------|---------------------|
|        |                                            | Canteen-Jamadoba Colliery | Canteen-Jamadoba Washery | Canteen-Digwadih Colliery | Canteen-6&7 Pits Colliery | Desirable               | Permissible |                     |
| 1.     | Colour, (Hazen Unit)                       | 2                         | 2                        | 3                         | 1                         | 5.00                    | 15.0        | IS 3025 (P-4):2021  |
| 2.     | Odour                                      | Agreeable                 | Agreeable                | Agreeable                 | Agreeable                 | Agreeable               | Agreeable   | IS 3025 (P-5):2018  |
| 3.     | Taste                                      | Agreeable                 | Agreeable                | Agreeable                 | Agreeable                 | Agreeable               | Agreeable   | IS 3025 (P-7):2017  |
| 4.     | Turbidity, NTU                             | 0.7                       | 0.7                      | 2.4                       | 0.7                       | 1.0                     | 5.0         | IS 3025 (P-10):1984 |
| 5.     | pH                                         | 7.97                      | 7.98                     | 7.78                      | 7.18                      | 6.5-8.5                 | No. Relax.  | IS-3025 (P-11):1983 |
| 6.     | Total Hardness as CaCO <sub>3</sub> , mg/l | 580                       | 540                      | 524                       | 595                       | 200                     | 600         | IS 3025 (P-21):2009 |
| 7.     | Chloride as Cl, mg/l                       | 122.18                    | 60.12                    | 52.36                     | 17.45                     | 250                     | 1000        | IS 3025 (P-32):1988 |
| 8.     | Res. Free chlorine as Cl <sub>2</sub> mg/l | N.T.                      | N.T.                     | N.T.                      | N.T.                      | 0.20                    | 1.0         | IS 3025 (P-26):2021 |
| 9.     | Total Dissolved Solids, mg/l               | 860                       | 790                      | 674.1                     | 615                       | 500                     | 2000        | IS 3025 (P-16):1984 |
| 10.    | Calcium as Ca, mg/l                        | 78.4                      | 61.0                     | 60.8                      | 52.8                      | 75                      | 200         | IS 3025 (P-40):1991 |
| 11.    | Copper as Cu, mg/l                         | 0.028                     | 0.019                    | 0.032                     | 0.033                     | 0.05                    | 1.5         | IS 3025 (P-42):1992 |

Continued on Page 2

#### Statements :

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|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <h2 style="margin:0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin:0;">Testing Laboratory</h3> <p style="margin:0;"><b>NABL ACCREDITED &amp; REGISTERED BY JSPCB RANCHI</b></p> <p style="margin:0;">(A Constituent Board of Quality Council of India)</p> <p style="margin:0;"><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b></p> | <p>Plot No. - I-B-17 (P)<br/>Sindri, Industrial Area,<br/>P.O.- Domgarh, Dist.- Dhanbad<br/>Jharkhand - 828107<br/>Email ID: sindriaditi@gmail.com<br/>Website: aditirdservices.com<br/>Phone: 0326-2952377 (O),<br/>Fax: 0326-2952377<br/>Mobile: 09471358492, 09431512608</p> |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- 2 -

| Sl. No. | PARAMETERS OF TEST                                           | VALUE                     |                          |                           |                             | IS as per IS 10500:2012 |              | Test Method         |
|---------|--------------------------------------------------------------|---------------------------|--------------------------|---------------------------|-----------------------------|-------------------------|--------------|---------------------|
|         |                                                              | Canteen-Jamadoba Colliery | Canteen-Jamadoba Washery | Canteen Digwadih Colliery | Canteen - 6&7 Pits Colliery | Desira ble              | Permi ssible |                     |
| 12.     | Manganese as Mn, mg/l                                        | 0.027                     | 0.036                    | 0.029                     | 0.010                       | 0.10                    | 0.30         | IS 3025 (P-59):2006 |
| 13.     | Sulphate as SO <sub>4</sub> , mg/l                           | 163.83                    | 127.62                   | 120.0                     | 29.58                       | 200                     | 400          | IS 3025 (P-24):1986 |
| 14.     | Nitrate as NO <sub>3</sub> , mg/l                            | 8.12                      | 5.06                     | 7.66                      | 8.68                        | 45                      | No. Relax    | IS 3025 (P-34):1988 |
| 15.     | Fluoride as F, mg/l                                          | 0.10                      | 0.05                     | 0.15                      | 0.18                        | 1.0                     | 1.5          | IS 3025 (P-60):2008 |
| 16.     | Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH) mg/l | BDL                       | BDL                      | BDL                       | BDL                         | 0.001                   | 0.002        | IS 3025 (P-43):1992 |
| 17.     | Mercury as Hg, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                         | 0.001                   | No. Relax    | IS 3025 (P-48):1994 |
| 18.     | Cadmium as Cd, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                         | 0.003                   | No. Relax    | IS 3025 (P-41):1992 |
| 19.     | Arsenic as As, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                         | 0.01                    | No. Relax    | IS 3025 (P-37):1988 |
| 20.     | Cyanide as CN, mg/l                                          | BDL                       | BDL                      | BDL                       | BDL                         | 0.05                    | No. Relax    | IS 3025 (P-27):1986 |
| 21.     | Lead as Pb, mg/l                                             | BDL                       | BDL                      | BDL                       | BDL                         | 0.01                    | No. Relax    | IS 3025 (P-47):1994 |
| 22.     | Zinc as Zn, mg/l,                                            | 2.8                       | 2.9                      | 2.6                       | 2.2                         | 5                       | 15           | IS 3025 (P-42):1992 |
| 23.     | Total Coliform, No./100ml                                    | Absent                    | Absent                   | Absent                    | Absent                      | Absent                  | Absent       | IS 3025 (P-49):1994 |
| 24.     | Total Chromium as Cr, mg/l                                   | 0.046                     | 0.020                    | 0.037                     | 0.033                       | 0.05                    | No. Relax    | IS 3025 (P-52):2003 |
| 25.     | Mineral Oil, mg/l                                            | BDL                       | BDL                      | BDL                       | BDL                         | 0.5                     | No. Relax    | IS 3025 (P-39):1989 |
| 26.     | Alkalinity as CaCO <sub>3</sub> , mg/l,                      | 580                       | 432                      | 380.0                     | 56.0                        | 200                     | 600          | IS 3025 (P-23):1983 |
| 27.     | Aluminium as Al, mg/l                                        | BDL                       | BDL                      | BDL                       | BDL                         | 0.03                    | 0.2          | IS 3025 (P-55):2003 |
| 28.     | Boron as B, mg/l                                             | 0.21                      | 0.19                     | 0.28                      | 0.16                        | 0.5                     | 1.0          | IS 3025 (P-57):2005 |

NOTE: BDL - Below Detection Limit

*Akilesh Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

**Statements :**

1. The test report refers only to the particular item(s) submitted for testing.
2. The test results reported in this report are valid at the time of and under the stated condition of measurement.
3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <h2 style="margin:0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin:0;">Testing Laboratory</h3>                                                                                            |                  | Plot No. - I-B-17 (P)<br>Sindri, Industrial Area,<br>P.O.- Domgarh, Dist.- Dhanbad<br>Jharkhand - 828107<br>Email ID: sindriaditi@gmail.com<br>Website: aditimdservices.com<br>Phone: 0326-2952377 (O),<br>Fax: 0326-2952377<br>Mobile: 09471358492, 09431512608 |               |               |                 |                         |              |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-----------------|-------------------------|--------------|--------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>NABL ACCREDITED &amp; REGISTERED BY JSPCB RANCHI</b><br>(A Constituent Board of Quality Council of India)<br><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b> |                  |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |
| Ref. No.: - ARDS/25-26/GW/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                            | Date: 31/03/2026 |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |
| <b><u>TEST REPORT OF GROUND WATER</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |
| <ul style="list-style-type: none"> <li>• Name of the industry : M/S TATA STEEL, JAMADOBA, TATA STEEL LIMITED JAMADOBA GROUP PLANT, DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Sample Code :                          <ul style="list-style-type: none"> <li>1. Bhowra 13 No</li> <li>2. Jorapokhar Kushtand</li> <li>3. Jamadoba 3 No</li> <li>4 Lower Dungari</li> <li>5. Mohalbani Basti.</li> </ul> </li> <li>• Date of Sample Collection : 26/03/2026 – 27/03/2026</li> <li>• Date of Testing : 27/03/2026 to 31/03/2026</li> </ul> |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |
| <b><u>TEST RESULT</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |
| Sl. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PARAMET-ERS OF TEST                                                                                                                                                                        | VALUE            |                                                                                                                                                                                                                                                                  |               |               |                 | IS as per IS 10500:2012 |              | Test Method        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                            | Bhowra 13 No     | Jorapokhar Kushtand                                                                                                                                                                                                                                              | Jamadoba 3 No | Lower Dungari | Mohalbani Basti | Desir-able              | Permi-ssible |                    |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Depth (In Meter)                                                                                                                                                                           | 5.1              | 4.8                                                                                                                                                                                                                                                              | 5.0           | 5.2           | 5.9             | -                       | -            | -                  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Temperature °C                                                                                                                                                                             | 26               | 24                                                                                                                                                                                                                                                               | 26            | 26            | 26              | -                       | -            | -                  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Electrical Conductivity, µmhos/cm                                                                                                                                                          | 820              | 2900                                                                                                                                                                                                                                                             | 1310          | 750           | 830             | -                       | -            | -                  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Total Dissolved Solids, mg/l                                                                                                                                                               | 530              | 1790                                                                                                                                                                                                                                                             | 815           | 480           | 520             | 500                     | 2000         | IS 3025(P-16):1984 |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | pH                                                                                                                                                                                         | 7.72             | 7.70                                                                                                                                                                                                                                                             | 7.54          | 7.65          | 7.29            | 6.5-8.5                 | No Relax     | IS-3025(P-11):1983 |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Total Hardness as CaCO <sub>3</sub> , mg/l                                                                                                                                                 | 368.0            | 592.0                                                                                                                                                                                                                                                            | 520.0         | 252.0         | 372.0           | 200                     | 600          | IS 3025(P-21):2009 |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Calcium as Ca, mg/l                                                                                                                                                                        | 78.4             | 140.8                                                                                                                                                                                                                                                            | 40.0          | 51.2          | 86.4            | 75                      | 200          | IS 3025(P-40):1991 |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Magnesium as Mg, mg/l                                                                                                                                                                      | 41.28            | 77.60                                                                                                                                                                                                                                                            | 110.8         | 29.76         | 37.44           | 30                      | 100          | IS 3025(P-46):1994 |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Chloride as Cl, mg/l                                                                                                                                                                       | 58.18            | 341.33                                                                                                                                                                                                                                                           | 87.27         | 73.70         | 44.61           | 250                     | 1000         | IS 3025(P-32):1988 |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fluoride as F, mg/l                                                                                                                                                                        | 0.20             | 0.15                                                                                                                                                                                                                                                             | 0.05          | 0.10          | 0.25            | 1.0                     | 1.5          | IS 3025(P-60):2008 |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sulphate as SO <sub>4</sub> , mg/l                                                                                                                                                         | 60.32            | 65.18                                                                                                                                                                                                                                                            | 55.36         | 60.45         | 65.20           | 200                     | 400          | IS 3025(P-24):1986 |
| 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nitrate as NO <sub>3</sub> , mg/l                                                                                                                                                          | 8.12             | 7.86                                                                                                                                                                                                                                                             | 7.89          | 8.06          | 7.72            | 45                      | No. Relax    | IS 3025(P-34):1988 |
| 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Alkalinity as CaCO <sub>3</sub> , mg/l,                                                                                                                                                    | 304.0            | 532                                                                                                                                                                                                                                                              | 580.0         | 236.0         | 260.0           | 200                     | 600          | IS 3025(P-23):1983 |
| Statements :<br>1. The test report refers only to the particular item(s) submitted for testing.<br>2. The test results reported in this report are valid at the time of and under the stated condition of measurement.<br>3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.                                                                                                                                                                                                                                  |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                  |               |               |                 |                         |              |                    |



**ADITI R&D SERVICES**  
*Testing Laboratory*  
NABL ACCREDITED & REGISTERED BY JSPCB RANCHI  
(A Constituent Board of Quality Council of India)  
ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified

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| Sl. No | PARAMETERS OF TEST         | VALUE        |                     |               |               |                 | IS as per IS 10500:2012 |             | Test Method        |
|--------|----------------------------|--------------|---------------------|---------------|---------------|-----------------|-------------------------|-------------|--------------------|
|        |                            | Bhowra 13 No | Jorapokhar Kushtand | Jamadoba 3 No | Lower Dungari | MohalbaniB asti | Desirable               | Permissible |                    |
| 14.    | Colour, (Hazen Unit)       | 1            | 1                   | 1             | 1             | 1               | 5                       | 15          | IS 3025 (P-4):2021 |
| 15.    | Lead as Pb, mg/l           | BDL          | BDL                 | BDL           | BDL           | BDL             | 0.01                    | No. Relax   | IS 3025(P-47):1994 |
| 16.    | Zinc as Zn, mg/l,          | 2.8          | 2.9                 | 2.6           | 2.7           | 2.5             | 5                       | 15          | IS 3025(P-42):1992 |
| 17.    | Iron a Fe, mg/l            | 0.87         | 0.83                | 1.15          | 0.60          | 0.88            | 1.0                     | No. Relax   | IS 3025(P-53):2003 |
| 18.    | Copper as Cu, mg/l         | 0.028        | 0.019               | 0.002         | 0.014         | 0.017           | 0.05                    | 1.5         | IS3025 (P-42):1992 |
| 19.    | Mercury as Hg, mg/l        | BDL          | BDL                 | BDL           | BDL           | BDL             | 0.001                   | No. Relax   | IS 3025(P-48):1994 |
| 20.    | Cadmium as Cd, mg/l        | BDL          | BDL                 | BDL           | BDL           | BDL             | 0.003                   | No. Relax   | IS 3025(P-41):1992 |
| 21.    | Nickel as Ni, mg/l         | BDL          | BDL                 | BDL           | BDL           | BDL             | 0.02                    | No. Relax   | IS 3025(P-37):1992 |
| 22.    | Arsenic as As, mg/l        | BDL          | BDL                 | BDL           | BDL           | BDL             | 0.01                    | No. Relax   | IS 3025(P-37):1988 |
| 23.    | Cyanide as CN, mg/l        | BDL          | BDL                 | BDL           | BDL           | BDL             | 0.05                    | No. Relax   | IS 3025(P-27):1986 |
| 24.    | Total Chromium as Cr, mg/l | 0.036        | 0.028               | 0.022         | 0.024         | 0.024           | 0.05                    | No. Relax   | IS 3025(P-52):2003 |

NOTE: BDL - Below Detection Limit

*Akshay Kumar*  
Sr. Chemist  
Aditi R&D Services



*[Signature]*  
Quality Manager  
Aditi R&D Services, Sindri

**Statements :**

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2. The test results reported in this report are valid at the time of and under the stated condition of measurement.
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Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area. Manager, Digwadih Colliery  
Area. Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 482 / 25  
Date: 31 / 10 / 2025

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **OCTOBER'2025**. The results are as given below.

**Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R.  
742(E) dated-25.09.2000**

| S.No | Location                    | Latitude/<br>Longitude      | Date of<br>Sampling | Weather<br>Condition | SPM<br>24 Hourly<br>Limit-700<br>µg/m <sup>3</sup> | RSPM<br>24 Hourly<br>Limit-300<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> |
|------|-----------------------------|-----------------------------|---------------------|----------------------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 1    | 6&7 Pits<br>Kalimandir area | 23°43'15" N/<br>86°24'12" E | 09.10.25            | Clear                | 194.5                                              | 71.3                                                | 16.8                                                           | 18.4                                                           |

**Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)**

| S.No | Location                        | Latitude/<br>Longitude        | Date of<br>Sampling | Weather<br>Condition | PM <sub>10</sub><br>24 Hourly<br>Limit-100<br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>24 Hourly<br>Limit- 60<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> |
|------|---------------------------------|-------------------------------|---------------------|----------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| 1    | Jamadoba Group<br>Office        | 23°42'15.3" N/<br>86°24'11" E | 09.10.25            | Clear                | 69.8                                                            | 29.4                                                             | 17.7                                                          | 19.1                                                          |
| 2    | Digwadih 12 No.<br>Colony       | 23°41'42" N/<br>86°24'45.3" E | 09.10.25            | Clear                | 71.9                                                            | 30.8                                                             | 16.3                                                          | 18.2                                                          |
| 3    | New Village<br>Colony, Jamadoba | 23°41'51" N/<br>86°23'19" E   | 10.10.25            | Clear                | 68.4                                                            | 28.7                                                             | 15.6                                                          | 17.9                                                          |
| 4    | Tata Main<br>Hospital, Jamadoba | 23°42'36" N/<br>86°24'10.4" E | 10.10.25            | Clear                | 73.5                                                            | 32.6                                                             | 18.9                                                          | 20.3                                                          |

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area. Manager, Digwadih Colliery  
Area. Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 523 / 25

Date: 12 / 12 / 2025

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **NOVEMBER'2025**. The results are as given below.

**Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R.  
742(E) dated-25.09.2000**

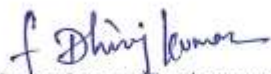
| S.No | Location                    | Latitude/<br>Longitude      | Date of<br>Sampling | Weather<br>Condition | SPM<br>24 Hourly<br>Limit-700<br>µg/m <sup>3</sup> | RSPM<br>24 Hourly<br>Limit-300<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> |
|------|-----------------------------|-----------------------------|---------------------|----------------------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 1    | 6&7 Pits<br>Kalimandir area | 23°43'15" N/<br>86°24'12" E | 10.11.25            | Clear                | 235.7                                              | 85.9                                                | 18.2                                                           | 20.6                                                           |

**Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)**

| S.No | Location                        | Latitude/<br>Longitude        | Date of<br>Sampling | Weather<br>Condition | PM <sub>10</sub><br>24 Hourly<br>Limit-100<br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>24 Hourly<br>Limit- 60<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> |
|------|---------------------------------|-------------------------------|---------------------|----------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| 1    | Jamadoba Group<br>Office        | 23°42'15.3" N/<br>86°24'11" E | 10.11.25            | Clear                | 90.2                                                            | 48.6                                                             | 19.7                                                          | 21.0                                                          |
| 2    | Digwadih 12 No.<br>Colony       | 23°41'42" N/<br>86°24'45.3" E | 10.11.25            | Clear                | 87.6                                                            | 45.3                                                             | 17.6                                                          | 19.5                                                          |
| 3    | New Village<br>Colony, Jamadoba | 23°41'51" N/<br>86°23'19" E   | 11.11.25            | Clear                | 71.8                                                            | 32.6                                                             | 18.2                                                          | 20.4                                                          |
| 4    | Tata Main<br>Hospital, Jamadoba | 23°42'36" N/<br>86°24'10.4"E  | 11.11.25            | Clear                | 82.4                                                            | 40.5                                                             | 16.3                                                          | 18.1                                                          |

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area. Manager, Digwadih Colliery  
Area. Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 544 / 25  
Date: 31 / 12 / 2025

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **DECEMBER'2025**. The results are as given below.

**Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R.  
742(E) dated-25.09.2000**

| S.No | Location                    | Latitude/<br>Longitude      | Date of<br>Sampling | Weather<br>Condition | SPM<br>24 Hourly<br>Limit-700<br>µg/m <sup>3</sup> | RSPM<br>24 Hourly<br>Limit-300<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> |
|------|-----------------------------|-----------------------------|---------------------|----------------------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 1    | 6&7 Pits<br>Kalimandir area | 23°43'15" N/<br>86°24'12" E | 08.12.25            | Clear                | 254.6                                              | 89.2                                                | 19.1                                                           | 21.3                                                           |

**Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)**

| S.No | Location                        | Latitude/<br>Longitude        | Date of<br>Sampling | Weather<br>Condition | PM <sub>10</sub><br>24 Hourly<br>Limit-100<br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>24 Hourly<br>Limit- 60<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> |
|------|---------------------------------|-------------------------------|---------------------|----------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| 1    | Jamadoba Group<br>Office        | 23°42'15.3" N/<br>86°24'11" E | 08.12.25            | Clear                | 95.7                                                            | 54.7                                                             | 20.1                                                          | 22.2                                                          |
| 2    | Digwadih 12 No.<br>Colony       | 23°41'42" N/<br>86°24'45.3" E | 08.12.25            | Clear                | 91.5                                                            | 51.2                                                             | 18.2                                                          | 20.4                                                          |
| 3    | New Village<br>Colony, Jamadoba | 23°41'51" N/<br>86°23'19" E   | 10.12.25            | Clear                | 82.0                                                            | 41.6                                                             | 16.7                                                          | 18.6                                                          |
| 4    | Tata Main<br>Hospital, Jamadoba | 23°42'36" N/<br>86°24'10.4"E  | 10.12.25            | Clear                | 85.9                                                            | 44.2                                                             | 15.8                                                          | 17.5                                                          |

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
**Lab. Assistant (Environment)**

  
**Manager (Environment)**

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area. Manager, Digwadih Colliery  
Area. Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 18 / 26

Date: 28 / 01 / 2026

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **JANUARY\*2026**. The results are as given below.

**Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R.  
742(E) dated-25.09.2000**

| S.No | Location                    | Latitude/<br>Longitude      | Date of<br>Sampling | Weather<br>Condition | SPM<br>24 Hourly<br>Limit-700<br>µg/m <sup>3</sup> | RSPM<br>24 Hourly<br>Limit-300<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> |
|------|-----------------------------|-----------------------------|---------------------|----------------------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 1    | 6&7 Pits<br>Kalimandir area | 23°43'15" N/<br>86°24'12" E | 06.01.26            | Clear                | 276.2                                              | 96.5                                                | 16.4                                                           | 18.2                                                           |

**Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)**

| S.No | Location                        | Latitude/<br>Longitude        | Date of<br>Sampling | Weather<br>Condition | PM <sub>10</sub><br>24 Hourly<br>Limit-100<br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>24 Hourly<br>Limit- 60<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> |
|------|---------------------------------|-------------------------------|---------------------|----------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| 1    | Jamadoba Group<br>Office        | 23°42'15.3" N/<br>86°24'11" E | 06.01.26            | Clear                | 110.8                                                           | 58.9                                                             | 17.9                                                          | 19.6                                                          |
| 2    | Digwadih 12 No.<br>Colony       | 23°41'42" N/<br>86°24'45.3" E | 06.01.26            | Clear                | 104.5                                                           | 56.1                                                             | 16.4                                                          | 18.7                                                          |
| 3    | New Village<br>Colony, Jamadoba | 23°41'51" N/<br>86°23'19" E   | 08.01.26            | Clear                | 90.2                                                            | 46.1                                                             | 15.2                                                          | 17.3                                                          |
| 4    | Tata Main<br>Hospital, Jamadoba | 23°42'36" N/<br>86°24'10.4"E  | 08.01.26            | Clear                | 95.6                                                            | 48.9                                                             | 18.3                                                          | 20.1                                                          |

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area. Manager, Digwadih Colliery  
Area. Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 44 / 26

Date: 02 / 03 / 2026

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **FEBRUARY'2026**. The results are as given below.

**Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R. 742(E) dated-25.09.2000**

| S.No | Location                    | Latitude/<br>Longitude      | Date of<br>Sampling | Weather<br>Condition | SPM<br>24<br>Hourly<br>Limit-<br>700<br>µg/m <sup>3</sup> | RSPM<br>24<br>Hourly<br>Limit-<br>300<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24<br>Hourly<br>Limit-<br>120<br>µg/m <sup>3</sup> | NOx<br>24<br>Hourly<br>Limit-<br>120<br>µg/m <sup>3</sup> |
|------|-----------------------------|-----------------------------|---------------------|----------------------|-----------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|
| 1    | 6&7 Pits<br>Kalimandir area | 23°43'15" N/<br>86°24'12" E | 09.02.26            | Clear                | 267.9                                                     | 93.2                                                       | 18.2                                                                  | 20.1                                                      |

**Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)**

| S.No | Location                        | Latitude/<br>Longitude        | Date of<br>Sampling | Weather<br>Condition | PM <sub>10</sub><br>24<br>Hourly<br>Limit-<br>100<br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>24<br>Hourly<br>Limit-<br>60<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24<br>Hourly<br>Limit-80<br>µg/m <sup>3</sup> | NOx<br>24<br>Hourly<br>Limit-<br>80<br>µg/m <sup>3</sup> |
|------|---------------------------------|-------------------------------|---------------------|----------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------|
| 1    | Jamadoba Group<br>Office        | 23°42'15.3" N/<br>86°24'11" E | 09.02.26            | Clear                | 106.7                                                                  | 56.4                                                                   | 19.2                                                             | 21.0                                                     |
| 2    | Digwadih 12 No.<br>Colony       | 23°41'42" N/<br>86°24'45.3" E | 09.02.26            | Clear                | 112.8                                                                  | 58.6                                                                   | 18.4                                                             | 20.3                                                     |
| 3    | New Village<br>Colony, Jamadoba | 23°41'51" N/<br>86°23'19" E   | 11.02.26            | Clear                | 92.1                                                                   | 48.9                                                                   | 17.0                                                             | 19.5                                                     |
| 4    | Tata Main<br>Hospital, Jamadoba | 23°42'36" N/<br>86°24'10.4"E  | 11.02.26            | Clear                | 89.2                                                                   | 46.5                                                                   | 20.7                                                             | 22.0                                                     |

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Manager, Digwadih Colliery  
Manager, 6 & 7 Pits Colliery  
Head, Jamadoba Coal Washery  
CMO, Tata Main Hospital, Jamadoba

Ref: JMB /ENV /LAB /02 / 76 / 26

Date: 06 / 04 / 2026

**Re: AIR QUALITY REPORT**

We wish to inform you that Air Quality Monitoring was carried out in **JAMADOBA GROUP** in the month of **MARCH'2026**. The results are as given below.

**Core zone (as per Ambient Air quality standards for coal mines notified vide notification G.S.R.  
742(E) dated-25.09.2000**

| S.No | Location                    | Latitude/<br>Longitude      | Date of<br>Sampling | Weather<br>Condition | SPM<br>24 Hourly<br>Limit-700<br>µg/m <sup>3</sup> | RSPM<br>24 Hourly<br>Limit-300<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-120<br>µg/m <sup>3</sup> |
|------|-----------------------------|-----------------------------|---------------------|----------------------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 1    | 6&7 Pits<br>Kalimandir area | 23°43'15" N/<br>86°24'12" E | 06.03.26            | Clear                | 251.8                                              | 90.8                                                | 19.4                                                           | 21.2                                                           |

**Buffer zone (as per NAAQS 2009 for Ambient Air quality standards)**

| S.No | Location                        | Latitude/<br>Longitude        | Date of<br>Sampling | Weather<br>Condition | PM <sub>10</sub><br>24 Hourly<br>Limit-100<br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>24 Hourly<br>Limit- 60<br>µg/m <sup>3</sup> | SO <sub>2</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> | NO <sub>x</sub><br>24 Hourly<br>Limit-80<br>µg/m <sup>3</sup> |
|------|---------------------------------|-------------------------------|---------------------|----------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| 1    | Jamadoba Group<br>Office        | 23°42'15.3" N/<br>86°24'11" E | 06.03.26            | Clear                | 96.5                                                            | 51.2                                                             | 18.4                                                          | 20.6                                                          |
| 2    | Digwadih 12 No.<br>Colony       | 23°41'42" N/<br>86°24'45.3" E | 06.03.26            | Clear                | 89.5                                                            | 46.3                                                             | 16.9                                                          | 18.1                                                          |
| 3    | New Village<br>Colony, Jamadoba | 23°41'51" N/<br>86°23'19" E   | 09.03.26            | Clear                | 86.5                                                            | 42.1                                                             | 19.2                                                          | 21.7                                                          |
| 4    | Tata Main<br>Hospital, Jamadoba | 23°42'36" N/<br>86°24'10.4"E  | 09.03.26            | Clear                | 92.1                                                            | 48.6                                                             | 17.1                                                          | 18.2                                                          |

**Note:** PM<sub>10</sub> - Less than 10-micron Particulate Matter  
PM<sub>2.5</sub> - Less than 2.5-micron Particulate Matter  
µg - Microgram

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Manager (Environment)

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Colliery  
Head, Jamadoba Coal Washery  
Sr. Manager, Digwadih Colliery  
Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/470/25

Dated: 31/10/2025

**Re: Ambient Noise Level Report**

We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **OCTOBER'2025**. The results are as given below:

| S.No | Monitoring Station                    | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|---------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                       |          | CPCB Standard- 55        |      |      | CPCB Standard- 45       |      |      |
|      | <b>Residential Area (Buffer Zone)</b> |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | Digwadih 12 No. Colony                | 21.10.25 | 41.3                     | 43.5 | 42.4 | 33.1                    | 35.3 | 34.2 |
| 2    | New Village Colony, Jamadoba          | 21.10.25 | 43.1                     | 45.3 | 44.2 | 35.3                    | 37.5 | 36.4 |
| 3    | 6&7 Pits Kalimandir Colony            | 21.10.25 | 42.5                     | 44.7 | 43.6 | 34.6                    | 36.8 | 35.7 |
| 4    | Digwadih 10 No. Colony                | 21.10.25 | 42.4                     | 44.6 | 43.5 | 34.2                    | 36.4 | 35.3 |

| S.No | Monitoring Station                  | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|-------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                     |          | CPCB Standard- 75        |      |      | CPCB Standard- 70       |      |      |
|      | <b>Industrial Area (Core Zone)</b>  |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | 2 Pit Main Gate Security Post       | 21.10.25 | 54.5                     | 57.8 | 56.2 | 46.2                    | 49.5 | 47.9 |
| 2    | 2 Pit Top Kalimandir, Jamadoba      | 21.10.25 | 51.3                     | 53.5 | 52.4 | 43.5                    | 45.8 | 44.7 |
| 3    | Weigh Bridge, Digwadih              | 21.10.25 | 46.2                     | 48.4 | 47.3 | 38.1                    | 40.3 | 39.2 |
| 4    | Canteen Complex, Digwadih           | 21.10.25 | 47.2                     | 49.5 | 48.4 | 39.4                    | 41.7 | 40.6 |
| 5    | Head Office Complex, Digwadih       | 21.10.25 | 40.5                     | 42.7 | 41.6 | 32.3                    | 34.5 | 33.4 |
| 6    | Check Post Security Gate, 6&7 Pits  | 21.10.25 | 49.4                     | 51.6 | 50.5 | 40.6                    | 42.7 | 41.7 |
| 7    | Canteen Complex, 6&7 Pits           | 21.10.25 | 42.2                     | 44.4 | 43.3 | 34.1                    | 36.3 | 35.2 |
| 8    | Fan house- Nitrogen Plant, 6&7 Pits | 21.10.25 | 41.3                     | 43.5 | 42.4 | 33.7                    | 35.9 | 34.8 |
| 9    | Joota Gate, JCPP                    | 21.10.25 | 59.6                     | 62.8 | 61.2 | 51.4                    | 54.6 | 53.0 |
| 10   | Main Gate Stores, JCPP              | 21.10.25 | 54.2                     | 57.4 | 55.8 | 46.3                    | 49.7 | 48.0 |
| 11   | Railway Siding Yard, JCPP           | 21.10.25 | 51.3                     | 54.6 | 53.0 | 43.5                    | 46.8 | 45.2 |

Analysis: All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Copy to: Specialist (OH). TCH

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Colliery  
Head, Jamadoba Coal Washery  
Sr. Manager, Digwadih Colliery  
Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/ ~~52~~1 /25

Dated: 12 / 12 / 2025

**Re: Ambient Noise Level Report**

We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **NOVEMBER'2025**. The results are as given below:

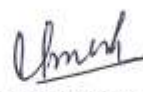
| S.No | Monitoring Station                    | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|---------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                       |          | CPCB Standard- 55        |      |      | CPCB Standard- 45       |      |      |
|      | <b>Residential Area (Buffer Zone)</b> |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | Digwadih 12 No. Colony                | 05.11.25 | 41.5                     | 43.7 | 42.6 | 33.4                    | 35.7 | 34.6 |
| 2    | New Village Colony, Jamadoba          | 05.11.25 | 42.3                     | 44.5 | 43.4 | 34.1                    | 36.3 | 35.2 |
| 3    | 6&7 Pits Kalimandir Colony            | 05.11.25 | 41.2                     | 43.6 | 42.4 | 33.5                    | 35.8 | 34.7 |
| 4    | Digwadih 10 No. Colony                | 05.11.25 | 43.3                     | 45.7 | 44.5 | 35.2                    | 37.4 | 36.3 |

| S.No | Monitoring Station                  | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|-------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                     |          | CPCB Standard- 75        |      |      | CPCB Standard- 70       |      |      |
|      | <b>Industrial Area (Core Zone)</b>  |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | 2 Pit Main Gate Security Post       | 05.11.25 | 52.3                     | 55.6 | 54.0 | 44.5                    | 47.8 | 46.2 |
| 2    | 2 Pit Top Kalimandir, Jamadoba      | 05.11.25 | 50.5                     | 52.8 | 51.7 | 42.3                    | 44.7 | 43.5 |
| 3    | Weigh Bridge, Digwadih              | 05.11.25 | 45.2                     | 47.5 | 46.4 | 37.4                    | 39.5 | 38.5 |
| 4    | Canteen Complex, Digwadih           | 05.11.25 | 46.4                     | 48.7 | 47.6 | 38.1                    | 40.3 | 39.2 |
| 5    | Head Office Complex, Digwadih       | 05.11.25 | 42.3                     | 44.5 | 43.4 | 34.5                    | 36.7 | 35.6 |
| 6    | Check Post Security Gate, 6&7 Pits  | 05.11.25 | 49.7                     | 51.9 | 50.8 | 41.4                    | 43.6 | 42.5 |
| 7    | Canteen Complex, 6&7 Pits           | 05.11.25 | 43.4                     | 45.6 | 44.5 | 35.2                    | 37.4 | 36.3 |
| 8    | Fan house- Nitrogen Plant, 6&7 Pits | 05.11.25 | 41.6                     | 43.8 | 42.7 | 33.5                    | 35.8 | 34.7 |
| 9    | Joota Gate, JCPP                    | 05.11.25 | 57.2                     | 60.4 | 58.8 | 49.1                    | 52.3 | 50.7 |
| 10   | Main Gate Stores, JCPP              | 05.11.25 | 55.6                     | 58.7 | 57.2 | 47.3                    | 50.5 | 48.9 |
| 11   | Railway Siding Yard, JCPP           | 05.11.25 | 50.4                     | 53.6 | 52.0 | 42.6                    | 45.8 | 44.2 |

Analysis: All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Copy to: Specialist (OH). TCH

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Colliery  
Head, Jamadoba Coal Washery  
Sr. Manager, Digwadih Colliery  
Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/551/25

Dated: 31/12/2025

**Re: Ambient Noise Level Report**

We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **DECEMBER'2025**. The results are as given below:

| S.No | Monitoring Station                    | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|---------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                       |          | CPCB Standard- 55        |      |      | CPCB Standard- 45       |      |      |
|      | <b>Residential Area (Buffer Zone)</b> |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | Digwadih 12 No. Colony                | 19.12.25 | 41.9                     | 43.8 | 42.9 | 33.4                    | 35.6 | 34.5 |
| 2    | New Village Colony, Jamadoba          | 19.12.25 | 42.5                     | 44.7 | 43.6 | 34.3                    | 36.5 | 35.4 |
| 3    | 6&7 Pits Kalimandir Colony            | 19.12.25 | 42.4                     | 44.8 | 43.6 | 34.5                    | 36.7 | 35.6 |
| 4    | Digwadih 10 No. Colony                | 19.12.25 | 41.7                     | 43.5 | 42.6 | 33.6                    | 35.9 | 34.8 |

| S.No | Monitoring Station                  | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|-------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                     |          | CPCB Standard- 75        |      |      | CPCB Standard- 70       |      |      |
|      | <b>Industrial Area (Core Zone)</b>  |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | 2 Pit Main Gate Security Post       | 19.12.25 | 52.5                     | 55.7 | 54.1 | 44.2                    | 47.5 | 45.9 |
| 2    | 2 Pit Top Kalimandir, Jamadoba      | 19.12.25 | 50.7                     | 53.9 | 52.3 | 42.4                    | 45.7 | 44.1 |
| 3    | Weigh Bridge, Digwadih              | 19.12.25 | 46.3                     | 48.5 | 47.4 | 38.1                    | 40.3 | 39.2 |
| 4    | Canteen Complex, Digwadih           | 19.12.25 | 46.5                     | 48.8 | 47.7 | 38.3                    | 40.5 | 39.4 |
| 5    | Head Office Complex, Digwadih       | 19.12.25 | 42.7                     | 44.6 | 43.7 | 34.5                    | 36.7 | 35.6 |
| 6    | Check Post Security Gate, 6&7 Pits  | 19.12.25 | 48.5                     | 51.7 | 50.1 | 40.7                    | 43.9 | 42.3 |
| 7    | Canteen Complex, 6&7 Pits           | 19.12.25 | 42.1                     | 44.3 | 43.2 | 34.4                    | 36.6 | 35.5 |
| 8    | Fan house- Nitrogen Plant, 6&7 Pits | 19.12.25 | 42.3                     | 45.5 | 43.9 | 34.5                    | 37.8 | 36.2 |
| 9    | Joota Gate, JCPP                    | 19.12.25 | 58.6                     | 61.4 | 60.0 | 50.7                    | 53.9 | 52.3 |
| 10   | Main Gate Stores, JCPP              | 19.12.25 | 56.4                     | 59.6 | 58.0 | 48.3                    | 51.5 | 49.9 |
| 11   | Railway Siding Yard, JCPP           | 19.12.25 | 50.7                     | 53.9 | 52.3 | 42.5                    | 45.7 | 44.1 |

Analysis: All the values are within permissible limit.

This is for your information please.



Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH



Manager (Environment)

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Colliery  
Head, Jamadoba Coal Washery  
Sr. Manager, Digwadih Colliery  
Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/ 28 /26

Dated: 28/01/2026

**Re: Ambient Noise Level Report**

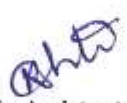
We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **JANUARY'2026**. The results are as given below:

| S.No | Monitoring Station                    | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|---------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                       |          | CPCB Standard- 55        |      |      | CPCB Standard- 45       |      |      |
|      | <b>Residential Area (Buffer Zone)</b> |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | Digwadih 12 No. Colony                | 20.01.26 | 47.3                     | 49.6 | 48.5 | 39.5                    | 41.7 | 40.6 |
| 2    | New Village Colony, Jamadoba          | 20.01.26 | 44.5                     | 46.8 | 45.7 | 36.2                    | 38.5 | 37.4 |
| 3    | 6&7 Pits Kalimandir Colony            | 20.01.26 | 49.7                     | 51.5 | 50.6 | 41.6                    | 43.8 | 42.7 |
| 4    | Digwadih 10 No. Colony                | 20.01.26 | 43.2                     | 45.3 | 44.3 | 35.4                    | 37.6 | 36.5 |

| S.No | Monitoring Station                  | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|-------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                     |          | CPCB Standard- 75        |      |      | CPCB Standard- 70       |      |      |
|      | <b>Industrial Area (Core Zone)</b>  |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | 2 Pit Main Gate Security Post       | 20.01.26 | 58.2                     | 61.5 | 59.9 | 50.4                    | 53.2 | 51.8 |
| 2    | 2 Pit Top Kalimandir, Jamadoba      | 20.01.26 | 50.4                     | 53.7 | 52.1 | 42.6                    | 45.7 | 44.2 |
| 3    | Weigh Bridge, Digwadih              | 20.01.26 | 46.2                     | 49.4 | 47.8 | 38.1                    | 41.3 | 39.7 |
| 4    | Canteen Complex, Digwadih           | 20.01.26 | 42.1                     | 44.2 | 43.2 | 34.3                    | 36.5 | 35.4 |
| 5    | Head Office Complex, Digwadih       | 20.01.26 | 39.5                     | 41.7 | 40.6 | 31.6                    | 33.7 | 32.7 |
| 6    | Check Post Security Gate, 6&7 Pits  | 20.01.26 | 45.6                     | 48.8 | 47.2 | 37.4                    | 40.6 | 39.0 |
| 7    | Canteen Complex, 6&7 Pits           | 20.01.26 | 41.3                     | 43.5 | 42.4 | 33.6                    | 35.9 | 34.8 |
| 8    | Fan house- Nitrogen Plant, 6&7 Pits | 20.01.26 | 46.7                     | 49.4 | 48.1 | 38.5                    | 41.7 | 40.1 |
| 9    | Joota Gate, JCPP                    | 20.01.26 | 67.4                     | 70.7 | 69.1 | 59.3                    | 62.5 | 60.9 |
| 10   | Main Gate Stores, JCPP              | 20.01.26 | 57.2                     | 60.4 | 58.8 | 49.1                    | 52.3 | 50.7 |
| 11   | Railway Siding Yard, JCPP           | 20.01.26 | 54.3                     | 57.5 | 55.9 | 46.4                    | 49.6 | 48.0 |

Analysis: All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Colliery  
Head, Jamadoba Coal Washery  
Sr. Manager, Digwadih Colliery  
Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/ 56 /26

Dated: 02 / 03 /2026

**Re: Ambient Noise Level Report**

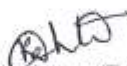
We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **FEBRUARY'2026**. The results are as given below:

| S.No | Monitoring Station                    | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|---------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                       |          | CPCB Standard- 55        |      |      | CPCB Standard- 45       |      |      |
|      | <b>Residential Area (Buffer Zone)</b> |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | Digwadih 12 No. Colony                | 09.02.26 | 46.5                     | 48.8 | 47.7 | 38.3                    | 40.5 | 39.4 |
| 2    | New Village Colony, Jamadoba          | 09.02.26 | 45.2                     | 47.4 | 46.3 | 37.4                    | 39.7 | 38.6 |
| 3    | 6&7 Pits Kalimandir Colony            | 09.02.26 | 47.4                     | 49.6 | 48.5 | 39.2                    | 41.4 | 40.3 |
| 4    | Digwadih 10 No. Colony                | 09.02.26 | 46.5                     | 48.7 | 47.6 | 38.6                    | 40.8 | 39.7 |

| S.No | Monitoring Station                  | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|-------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                     |          | CPCB Standard- 75        |      |      | CPCB Standard- 70       |      |      |
|      | <b>Industrial Area (Core Zone)</b>  |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | 2 Pit Main Gate Security Post       | 09.02.26 | 57.6                     | 60.8 | 59.2 | 49.4                    | 52.6 | 51.0 |
| 2    | 2 Pit Top Kalimandir, Jamadoba      | 09.02.26 | 50.8                     | 53.7 | 52.3 | 42.6                    | 45.9 | 44.3 |
| 3    | Weigh Bridge, Digwadih              | 09.02.26 | 46.5                     | 49.7 | 48.1 | 38.3                    | 41.5 | 39.9 |
| 4    | Canteen Complex, Digwadih           | 09.02.26 | 42.3                     | 44.5 | 43.4 | 34.1                    | 36.3 | 35.2 |
| 5    | Head Office Complex, Digwadih       | 09.02.26 | 40.1                     | 42.3 | 41.2 | 32.3                    | 34.6 | 33.5 |
| 6    | Check Post Security Gate, 6&7 Pits  | 09.02.26 | 46.4                     | 49.6 | 48.0 | 38.6                    | 41.8 | 40.2 |
| 7    | Canteen Complex, 6&7 Pits           | 09.02.26 | 41.5                     | 43.7 | 42.6 | 33.4                    | 35.7 | 34.6 |
| 8    | Fan house- Nitrogen Plant, 6&7 Pits | 09.02.26 | 45.2                     | 48.6 | 46.9 | 37.5                    | 40.8 | 39.2 |
| 9    | Joota Gate, JCPP                    | 09.02.26 | 66.7                     | 69.9 | 68.3 | 58.4                    | 61.6 | 60.0 |
| 10   | Main Gate Stores, JCPP              | 09.02.26 | 58.4                     | 61.5 | 60.0 | 50.2                    | 53.4 | 51.8 |
| 11   | Railway Siding Yard, JCPP           | 09.02.26 | 53.6                     | 56.8 | 55.2 | 45.5                    | 48.7 | 47.1 |

Analysis: All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

  
Manager (Environment)

Copy to: Specialist (OH). TCH

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Colliery  
Head, Jamadoba Coal Washery  
Sr. Manager, Digwadih Colliery  
Sr. Manager, 6 & 7 Pits Colliery

Ref : JMB/ ENV/ LAB/ 05/ 85 /26

Dated: 06 / 04 / 2026

**Re: Ambient Noise Level Report**

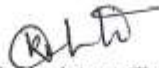
We wish to inform you that Ambient Noise Level Monitoring was carried out in **JAMADOBA GROUP** in the month of **MARCH'2026**. The results are as given below:

| S.No | Monitoring Station                    | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|---------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                       |          | CPCB Standard- 55        |      |      | CPCB Standard- 45       |      |      |
|      | <b>Residential Area (Buffer Zone)</b> |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | Digwadih 12 No. Colony                | 13.03.26 | 46.1                     | 48.3 | 47.2 | 38.2                    | 40.5 | 39.4 |
| 2    | New Village Colony, Jamadoba          | 13.03.26 | 44.3                     | 46.5 | 45.4 | 36.4                    | 38.7 | 37.6 |
| 3    | 6&7 Pits Kalimandir Colony            | 13.03.26 | 47.6                     | 49.8 | 48.7 | 39.3                    | 41.5 | 40.4 |
| 4    | Digwadih 10 No. Colony                | 13.03.26 | 45.4                     | 47.6 | 46.5 | 37.5                    | 39.8 | 38.7 |

| S.No | Monitoring Station                  | Date     | Day (06.00 – 22.00 Hrs.) |      |      | Night (22.00-06.00 Hrs) |      |      |
|------|-------------------------------------|----------|--------------------------|------|------|-------------------------|------|------|
|      |                                     |          | CPCB Standard- 75        |      |      | CPCB Standard- 70       |      |      |
|      | <b>Industrial Area (Core Zone)</b>  |          | Min.                     | Max. | Avg. | Min.                    | Max. | Avg. |
| 1    | 2 Pit Main Gate Security Post       | 13.03.26 | 55.3                     | 58.6 | 57.0 | 47.5                    | 50.7 | 49.1 |
| 2    | 2 Pit Top Kalimandir, Jamadoba      | 13.03.26 | 51.5                     | 54.7 | 53.1 | 43.4                    | 46.6 | 45.0 |
| 3    | Weigh Bridge, Digwadih              | 13.03.26 | 46.2                     | 49.4 | 47.8 | 38.5                    | 41.8 | 40.2 |
| 4    | Canteen Complex, Digwadih           | 13.03.26 | 42.5                     | 44.7 | 43.6 | 34.2                    | 36.4 | 35.3 |
| 5    | Head Office Complex, Digwadih       | 13.03.26 | 40.4                     | 42.6 | 41.5 | 32.3                    | 34.6 | 33.5 |
| 6    | Check Post Security Gate, 6&7 Pits  | 13.03.26 | 45.7                     | 47.9 | 46.8 | 37.5                    | 39.7 | 38.6 |
| 7    | Canteen Complex, 6&7 Pits           | 13.03.26 | 41.3                     | 43.5 | 42.4 | 33.4                    | 35.6 | 34.5 |
| 8    | Fan house- Nitrogen Plant, 6&7 Pits | 13.03.26 | 46.5                     | 49.8 | 48.2 | 38.6                    | 41.8 | 40.2 |
| 9    | Joota Gate, JCPP                    | 13.03.26 | 65.4                     | 68.7 | 67.1 | 57.3                    | 60.5 | 58.9 |
| 10   | Main Gate Stores, JCPP              | 13.03.26 | 57.6                     | 60.9 | 59.3 | 49.5                    | 52.7 | 51.1 |
| 11   | Railway Siding Yard, JCPP           | 13.03.26 | 52.8                     | 55.7 | 54.3 | 44.6                    | 47.9 | 46.3 |

**Analysis:** All the values are within permissible limit.

This is for your information please.

  
Lab. Assistant (Environment)

Copy to: Specialist (OH). TCH

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-**October-25 to March-26**)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 477 / 2025

Dated - 31 / 10 / 2025

**Sub: ETP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **OCTOBER'2025**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point) | Sampling<br>Date | Sampling<br>Time | Temp   | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------|------------------|------------------|--------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                     |                  |                  | < 40°C | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | ETP, TMH- Inlet                     | 21.10.25         | 12:05 PM         | 27     | 7.9       | 123         | 710          | 30.9       | 284         | 3.2             |
| 2     | ETP, TMH- Outlet                    | 21.10.25         | 12:10 PM         | 26     | 7.6       | 21          | 678          | 7.9        | 106         | 1.5             |
| 3     | ETP, Garage- Inlet                  | 21.10.25         | 10:30 AM         | 27     | 7.7       | 154         | 816          | 29.3       | 264         | 4.2             |
| 4     | ETP, Garage- Outlet                 | 21.10.25         | 10:35 AM         | 26     | 7.5       | 27          | 742          | 5.9        | 82          | 2.6             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-**October-25 to March-26**)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area Manager, Digwadih Colliery  
Manager Mining ,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 475 / 2025

Dated - 31 / 10 / 2025

**Sub: MINE WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **OCTOBER'2025**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)<br>(Mine's Water) | Sampling<br>Date | Sampling<br>Time | Temp         | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------------------------|------------------|------------------|--------------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                                       |                  |                  | < 40°C       | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | 2 Pit Jamadoba Colliery                               | 21.10.25         | 01:05 PM         | No Discharge |           |             |              |            |             |                 |
| 2     | 3 Pit Jamadoba Colliery                               | 21.10.25         | 12:20 PM         | No Discharge |           |             |              |            |             |                 |
| 3     | 2 Incline Jamadoba Colliery                           | 21.10.25         | 12:50 PM         | No Discharge |           |             |              |            |             |                 |
| 4     | 6&7 Pits Colliery                                     | 21.10.25         | 11:55 AM         | No Discharge |           |             |              |            |             |                 |
| 5     | Digwadih Colliery                                     | 21.10.25         | 11:45 AM         | No Discharge |           |             |              |            |             |                 |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 476 / 2025

Dated - 31 / 10 / 2025

**Sub: STP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **OCTOBER'2025**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)              | Sampling<br>Date | Sampling<br>Time | Temp   | pH      | TSS          | TDS | BOD          | COD          | Oil &<br>Gres |
|-------|--------------------------------------------------|------------------|------------------|--------|---------|--------------|-----|--------------|--------------|---------------|
|       |                                                  |                  |                  | < 40°C | 6.5-8.5 | ≤ 10<br>mg/L | -   | ≤ 10<br>mg/L | ≤ 50<br>mg/L | -             |
| 1     | STP, Jmb. Canteen- Inlet                         | 21.10.25         | 10:40 AM         | 28     | 8.1     | 139          | 936 | 34.8         | 306          | 3.9           |
| 2     | STP, Jmb. Canteen- Outlet                        | 21.10.25         | 10:45 AM         | 27     | 7.8     | 16           | 839 | 6.3          | 79           | 1.2           |
| 3     | STP, JCPP Canteen- Inlet                         | 21.10.25         | 12:30 PM         | 28     | 7.9     | 168          | 884 | 32.4         | 278          | 3.4           |
| 4     | STP, JCPP Canteen- Outlet                        | 21.10.25         | 12:35 PM         | 27     | 7.6     | 14           | 713 | 6.5          | 108          | 2.0           |
| 5     | STP, Railway Colony- Inlet                       | 21.10.25         | 11:05 AM         | 27     | 8.0     | 128          | 876 | 33.2         | 316          | 4.3           |
| 6     | STP, Railway Colony-Outlet                       | 21.10.25         | 11:10 AM         | 26     | 7.7     | 11           | 793 | 4.8          | 90           | 1.6           |
| 7     | STP, Digwadih 12 No.<br>Officer's colony-Inlet   | 21.10.25         | 11:25 AM         | 28     | 7.8     | 135          | 806 | 31.8         | 324          | 3.9           |
| 8     | STP, Digwadih 12 No.<br>Officer's colony- Outlet | 21.10.25         | 11:30 AM         | 27     | 7.5     | 20           | 778 | 5.1          | 52           | 1.9           |
| 9     | STP, Digwadih 12 No.<br>Supervisor flat - Inlet  | 21.10.25         | 11:40 AM         | 28     | 8.2     | 152          | 810 | 35.3         | 284          | 3.3           |
| 10    | STP, Digwadih 12 No.<br>Supervisor flat -Outlet  | 21.10.25         | 11:45 AM         | 27     | 7.8     | 21           | 769 | 6.7          | 102          | 1.4           |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area Manager, Digwadih Colliery  
Manager Mining ,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 503 / 2025

Dated - 12 / 12 / 2025

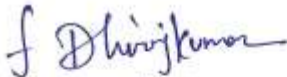
**Sub: MINE WATER ANALYSIS REPORT.**

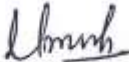
We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **NOVEMBER'2025**.

The results are as given below:

| S. No | Location<br>(Final Discharge Point)<br>(Mine's Water) | Sampling<br>Date | Sampling<br>Time | Temp         | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------------------------|------------------|------------------|--------------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                                       |                  |                  | < 40°C       | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | 2 Pit Jamadoba Colliery                               | 05.11.25         | 01:10 PM         | No Discharge |           |             |              |            |             |                 |
| 2     | 3 Pit Jamadoba Colliery                               | 05.11.25         | 12:25 PM         | No Discharge |           |             |              |            |             |                 |
| 3     | 2 Incline Jamadoba Colliery                           | 05.11.25         | 12:55 PM         | No Discharge |           |             |              |            |             |                 |
| 4     | 6&7 Pits Colliery                                     | 05.11.25         | 12:05 PM         | No Discharge |           |             |              |            |             |                 |
| 5     | Digwadih Colliery                                     | 05.11.25         | 11:50 AM         | No Discharge |           |             |              |            |             |                 |

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab. Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 503 / 2025

Dated - 12 / 12 / 2025

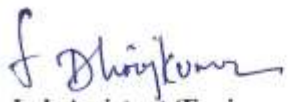
**Sub: STP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **NOVEMBER'2025**.

The results are as given below:

| S. No | Location<br>(Final Discharge Point)              | Sampling<br>Date | Sampling<br>Time | Temp   | pH      | TSS          | TDS | BOD          | COD          | Oil &<br>Grease |
|-------|--------------------------------------------------|------------------|------------------|--------|---------|--------------|-----|--------------|--------------|-----------------|
|       |                                                  |                  |                  | < 40°C | 6.5-8.5 | ≤ 10<br>mg/L | -   | ≤ 10<br>mg/L | ≤ 50<br>mg/L | -               |
| 1     | STP, Jmb. Canteen- Inlet                         | 05.11.25         | 10:45 AM         | 26     | 7.9     | 146          | 863 | 33.1         | 316          | 4.1             |
| 2     | STP, Jmb. Canteen- Outlet                        | 05.11.25         | 10:50 AM         | 25     | 7.7     | 18           | 774 | 5.2          | 84           | 1.5             |
| 3     | STP, JCPP Canteen- Inlet                         | 05.11.25         | 12:35 PM         | 26     | 8.2     | 133          | 769 | 34.1         | 310          | 2.9             |
| 4     | STP, JCPP Canteen- Outlet                        | 05.11.25         | 12:40 PM         | 25     | 8.0     | 16           | 695 | 7.1          | 94           | 1.7             |
| 5     | STP, Railway Colony- Inlet                       | 05.11.25         | 11:10 AM         | 26     | 7.9     | 137          | 816 | 35.1         | 302          | 3.9             |
| 6     | STP, Railway Colony-Outlet                       | 05.11.25         | 11:15 AM         | 25     | 7.6     | 17           | 715 | 5.7          | 87           | 1.2             |
| 7     | STP, Digwadih 12 No.<br>Officer's colony-Inlet   | 05.11.25         | 11:30 AM         | 27     | 8.1     | 145          | 908 | 33.2         | 298          | 3.6             |
| 8     | STP, Digwadih 12 No.<br>Officer's colony- Outlet | 05.11.25         | 11:35 AM         | 26     | 7.8     | 22           | 819 | 6.8          | 76           | 1.1             |
| 9     | STP, Digwadih 12 No.<br>Supervisor flat - Inlet  | 05.11.25         | 11:45 AM         | 26     | 7.9     | 137          | 913 | 31.2         | 310          | 3.7             |
| 10    | STP, Digwadih 12 No.<br>Supervisor flat -Outlet  | 05.11.25         | 11:50 AM         | 25     | 7.6     | 20           | 847 | 5.1          | 108          | 1.3             |

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 503 / 2025  
Dated - 12 / 12 / 2025

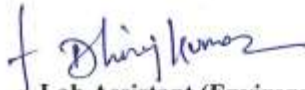
**Sub: ETP WATER ANALYSIS REPORT.**

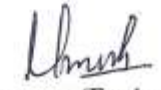
We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **NOVEMBER'2025**.

The results are as given below:

| S. No | Location<br>(Final Discharge Point) | Sampling<br>Date | Sampling<br>Time | Temp   | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------|------------------|------------------|--------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                     |                  |                  | < 40°C | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | ETP, TMH- Inlet                     | 05.11.25         | 12:10 PM         | 27     | 8.0       | 99          | 901          | 28.5       | 262         | 3.1             |
| 2     | ETP, TMH- Outlet                    | 05.11.25         | 12:15 PM         | 26     | 7.7       | 19          | 819          | 6.8        | 99          | 1.2             |
| 3     | ETP, Garage- Inlet                  | 05.11.25         | 10:35 AM         | 27     | 7.8       | 112         | 793          | 31.5       | 299         | 5.1             |
| 4     | ETP, Garage- Outlet                 | 05.11.25         | 10:40 AM         | 26     | 7.6       | 22          | 697          | 4.6        | 54          | 1.9             |

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Sr. Manager (Environment)

**TATA STEEL LIMITED**  
JHARIA DIVISION

**Well Water Quality Report of Jamadoba Group for the month of NOVEMBER'2025**

**JAMADOBA GROUP**

| S.No | Date     | Location                   | Time     | Depth in meter | pH  | Electrical Conductivity $\mu\text{S/m}$ |
|------|----------|----------------------------|----------|----------------|-----|-----------------------------------------|
| 1    | 26.11.25 | Purnadih (Jorapokhar)      | 11:40 AM | 2.87           | 7.2 | 1140                                    |
| 2    | 26.11.25 | Bhowra 13 No               | 11:55 AM | 1.64           | 7.4 | 945                                     |
| 3    | 26.11.25 | Bhowra Gourkhutti          | 12:20 PM | 2.12           | 7.2 | 973                                     |
| 4    | 26.11.25 | Digwadih 10 No F & J       | 01:05 AM | 1.73           | 7.4 | 1532                                    |
| 5    | 26.11.25 | Kalimela Shivmandir        | 10:25 AM | 0.96           | 7.1 | 987                                     |
| 6    | 26.11.25 | Kalimela Kalimandir        | 10:40 AM | 2.68           | 7.5 | 1384                                    |
| 7    | 26.11.25 | Lower Dungari              | 10:10 AM | 2.72           | 7.4 | 828                                     |
| 8    | 26.11.25 | Upper Dungari              | 09:20 AM | 1.54           | 7.2 | 863                                     |
| 9    | 26.11.25 | Digwadih 12 No.            | 12:40 PM | 1.97           | 7.1 | 929                                     |
| 10   | 26.11.25 | Kenduadih Basti            | 09:40 AM | 1.27           | 7.3 | 994                                     |
| 11   | 26.11.25 | Jorapokhar Kushtand        | 11:05 AM | 3.05           | 7.5 | 1427                                    |
| 12   | 26.11.25 | 6&7 Pits (Ayodhya Nagri)   | 01:40 PM | 1.56           | 7.3 | 1141                                    |
| 13   | 26.11.25 | Jorapokhar Basti Chhattand | 01:20 PM | 0.92           | 7.5 | 1315                                    |
| 14   | 26.11.25 | Jorapokhar Babu Basa       | 11:25 AM | 1.44           | 7.2 | 1087                                    |



Lab.Assistant (Environment)



Sr. Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 547 / 2025  
Dated - 31 / 12 / 2025

**Sub: ETP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **DECEMBER**'2025. The results are as given below:

| S. No | Location<br>(Final Discharge Point) | Sampling<br>Date | Sampling<br>Time | Temp   | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------|------------------|------------------|--------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                     |                  |                  | < 40°C | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | ETP, TMH- Inlet                     | 19.12.25         | 12:25 PM         | 25     | 8.4       | 108         | 829          | 29.4       | 268         | 2.9             |
| 2     | ETP, TMH- Outlet                    | 19.12.25         | 12:30 PM         | 24     | 8.2       | 36          | 792          | 7.3        | 92          | 1.3             |
| 3     | ETP, Garage- Inlet                  | 19.12.25         | 01:20 PM         | 26     | 8.2       | 167         | 784          | 32.8       | 306         | 4.9             |
| 4     | ETP, Garage- Outlet                 | 19.12.25         | 01:25 PM         | 25     | 8.0       | 41          | 624          | 7.6        | 66          | 2.3             |

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Area Manager, Digwadih Colliery  
Manager Mining ,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 545 / 2025

Dated - 31 / 12 / 2025

**Sub: MINE WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **DECEMBER'2025**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)<br>(Mine's Water) | Sampling<br>Date | Sampling<br>Time | Temp         | pH           | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------------------------|------------------|------------------|--------------|--------------|-------------|--------------|------------|-------------|-----------------|
|       |                                                       |                  |                  | < 40°C       | 5.5 -<br>9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | 2 Pit Jamadoba Colliery                               | 19.12.25         | 09:45 AM         | No Discharge |              |             |              |            |             |                 |
| 2     | 3 Pit Jamadoba Colliery                               | 19.12.25         | 10:00 AM         | No Discharge |              |             |              |            |             |                 |
| 3     | 2 Incline Jamadoba<br>Colliery                        | 19.12.25         | 10:20 AM         | No Discharge |              |             |              |            |             |                 |
| 4     | 6&7 Pits Colliery                                     | 19.12.25         | 12:15 PM         | No Discharge |              |             |              |            |             |                 |
| 5     | Digwadih Colliery                                     | 19.12.25         | 11:55 AM         | 32           | 7.8          | 15          | 910          | 3.2        | 84          | 2.1             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
**Lab.Assistant (Environment)**

  
**Manager (Environment)**

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
Area Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 546 / 2025

Dated - 31 / 12 / 2025

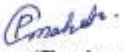
**Sub: STP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **DECEMBER'2025**. The results are as given below:

| S. No | Location<br>(Final Discharge Point)              | Sampling<br>Date | Sampling<br>Time | Temp   | pH      | TSS          | TDS  | BOD          | COD          | Oil &<br>Grease |
|-------|--------------------------------------------------|------------------|------------------|--------|---------|--------------|------|--------------|--------------|-----------------|
|       |                                                  |                  |                  | < 40°C | 6.5-8.5 | ≤ 10<br>mg/L | -    | ≤ 10<br>mg/L | ≤ 50<br>mg/L | -               |
| 1     | STP, Jmb. Canteen- Inlet                         | 19.12.25         | 01:05 PM         | 25     | 8.2     | 122          | 1026 | 31.5         | 294          | 3.9             |
| 2     | STP, Jmb. Canteen- Outlet                        | 19.12.25         | 01:10 PM         | 24     | 8.0     | 32           | 987  | 4.8          | 56           | 2.1             |
| 3     | STP, JCPP Canteen- Inlet                         | 19.12.25         | 12:45 PM         | 25     | 8.1     | 144          | 1028 | 33.6         | 316          | 3.5             |
| 4     | STP, JCPP Canteen- Outlet                        | 19.12.25         | 12:50 PM         | 24     | 7.9     | 21           | 916  | 6.2          | 102          | 1.8             |
| 5     | STP, Railway Colony- Inlet                       | 19.12.25         | 10:35 AM         | 25     | 8.0     | 117          | 906  | 33.9         | 310          | 4.1             |
| 6     | STP, Railway Colony-Outlet                       | 19.12.25         | 10:40 AM         | 24     | 7.8     | 28           | 816  | 5.2          | 70           | 1.9             |
| 7     | STP, Digwadih 12 No.<br>Officer's colony-Inlet   | 19.12.25         | 11:10 AM         | 26     | 8.3     | 119          | 814  | 35.8         | 306          | 3.7             |
| 8     | STP, Digwadih 12 No.<br>Officer's colony- Outlet | 19.12.25         | 11:15 AM         | 25     | 8.1     | 26           | 706  | 4.1          | 54           | 2.0             |
| 9     | STP, Digwadih 12 No.<br>Supervisor flat - Inlet  | 19.12.25         | 11:30 AM         | 26     | 8.0     | 122          | 927  | 30.9         | 272          | 4.5             |
| 10    | STP, Digwadih 12 No.<br>Supervisor flat -Outlet  | 19.12.25         | 11:35 AM         | 25     | 7.8     | 32           | 842  | 3.9          | 84           | 1.6             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-**October-25 to March-26**)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 21 / 2026

Dated - 28 / 01 / 2026

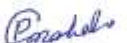
**Sub: ETP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **JANUARY\*2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point) | Sampling<br>Date | Sampling<br>Time | Temp   | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------|------------------|------------------|--------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                     |                  |                  | < 40°C | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | ETP, TMH- Inlet                     | 20.01.26         | 10:55 AM         | 26     | 8.5       | 119         | 916          | 28.6       | 275         | 3.1             |
| 2     | ETP, TMH- Outlet                    | 20.01.26         | 11:00 AM         | 25     | 8.3       | 14          | 826          | 5.9        | 86          | 1.1             |
| 3     | ETP, Garage- Inlet                  | 20.01.26         | 01:05 PM         | 26     | 8.1       | 143         | 758          | 30.6       | 312         | 4.6             |
| 4     | ETP, Garage- Outlet                 | 20.01.26         | 01:10 PM         | 25     | 8.0       | 16          | 687          | 6.2        | 79          | 2.2             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Manager, Digwadih Colliery  
Manager Mining ,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 19 / 2026

Dated - 28 / 01 / 2026

**Sub: MINE WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **JANUARY** 2026. The results are as given below:

| S. No | Location<br>(Final Discharge Point)<br>(Mine's Water) | Sampling<br>Date | Sampling<br>Time | Temp         | pH           | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------------------------|------------------|------------------|--------------|--------------|-------------|--------------|------------|-------------|-----------------|
|       |                                                       |                  |                  | < 40°C       | 5.5 -<br>9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | 2 Pit Jamadoba Colliery                               | 20.01.26         | 11:15 AM         | No Discharge |              |             |              |            |             |                 |
| 2     | 3 Pit Jamadoba Colliery                               | 20.01.26         | 11:30 AM         | No Discharge |              |             |              |            |             |                 |
| 3     | 2 Incline Jamadoba Colliery                           | 20.01.26         | 11:50 AM         | No Discharge |              |             |              |            |             |                 |
| 4     | 6&7 Pits Colliery                                     | 20.01.26         | 10:45 AM         | No Discharge |              |             |              |            |             |                 |
| 5     | Digwadih Colliery                                     | 20.01.26         | 10:25 AM         | No Discharge |              |             |              |            |             |                 |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 20 / 2026

Dated - 28 / 01 / 2026

**Sub: STP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **JANUARY'2026**. The results are as given below:

| S. No | Location<br>(Final Discharge Point)              | Sampling<br>Date | Sampling<br>Time | Temp   | pH      | TSS          | TDS  | BOD          | COD          | Oil &<br>Grease |
|-------|--------------------------------------------------|------------------|------------------|--------|---------|--------------|------|--------------|--------------|-----------------|
|       |                                                  |                  |                  | < 40°C | 6.5-8.5 | ≤ 10<br>mg/L | -    | ≤ 10<br>mg/L | ≤ 50<br>mg/L | -               |
| 1     | STP, Jmb. Canteen- Inlet                         | 20.01.26         | 12:45 PM         | 26     | 7.6     | 137          | 1019 | 35.7         | 320          | 4.3             |
| 2     | STP, Jmb. Canteen- Outlet                        | 20.01.26         | 12:50 PM         | 25     | 7.4     | 29           | 982  | 7.1          | 88           | 1.7             |
| 3     | STP, JCPP Canteen- Inlet                         | 20.01.26         | 12:30 PM         | 25     | 7.5     | 162          | 1096 | 35.1         | 284          | 4.1             |
| 4     | STP, JCPP Canteen- Outlet                        | 20.01.26         | 12:35 PM         | 24     | 7.3     | 40           | 1016 | 4.8          | 116          | 1.2             |
| 5     | STP, Railway Colony- Inlet                       | 20.01.26         | 12:10 PM         | 26     | 7.8     | 125          | 1131 | 34.8         | 328          | 4.6             |
| 6     | STP, Railway Colony-Outlet                       | 20.01.26         | 12:15 PM         | 25     | 7.6     | 24           | 1025 | 7.2          | 64           | 2.0             |
| 7     | STP, Digwadih 12 No.<br>Officer's colony-Inlet   | 20.01.26         | 09:45 AM         | 26     | 8.4     | 139          | 724  | 30.1         | 264          | 2.9             |
| 8     | STP, Digwadih 12 No.<br>Officer's colony- Outlet | 20.01.26         | 09:50 AM         | 25     | 8.2     | 17           | 612  | 4.8          | 102          | 1.5             |
| 9     | STP, Digwadih 12 No.<br>Supervisor flat - Inlet  | 20.01.26         | 10:05 AM         | 26     | 7.9     | 143          | 623  | 33.7         | 302          | 4.1             |
| 10    | STP, Digwadih 12 No.<br>Supervisor flat -Outlet  | 20.01.26         | 10:10 AM         | 25     | 7.7     | 12           | 589  | 4.7          | 70           | 1.0             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 47 / 2026

Dated - 02 / 03 / 2026

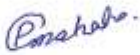
**Sub: ETP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **FEBRUARY'2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point) | Sampling<br>Date | Sampling<br>Time | Temp   | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------|------------------|------------------|--------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                     |                  |                  | < 40°C | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | ETP, TMH- Inlet                     | 09.02.26         | 11:00 AM         | 27     | 8.2       | 103         | 839          | 27.4       | 282         | 2.5             |
| 2     | ETP, TMH- Outlet                    | 09.02.26         | 11:05 AM         | 26     | 8.0       | 19          | 796          | 6.1        | 62          | 1.4             |
| 3     | ETP, Garage- Inlet                  | 09.02.26         | 01:10 PM         | 26     | 8.3       | 132         | 762          | 31.4       | 296         | 3.9             |
| 4     | ETP, Garage- Outlet                 | 09.02.26         | 01:15 PM         | 25     | 8.1       | 20          | 692          | 5.8        | 48          | 1.8             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Manager, Digwadih Colliery  
Manager Mining ,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 45 / 2026  
Dated - 02 / 03 / 2026

**Sub: MINE WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **FEBRUARY'2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)<br>(Mine's Water) | Sampling<br>Date | Sampling<br>Time | Temp         | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------------------------|------------------|------------------|--------------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                                       |                  |                  | < 40°C       | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | 2 Pit Jamadoba Colliery                               | 09.02.26         | 11:20 AM         | No Discharge |           |             |              |            |             |                 |
| 2     | 3 Pit Jamadoba Colliery                               | 09.02.26         | 11:35 AM         | No Discharge |           |             |              |            |             |                 |
| 3     | 2 Incline Jamadoba Colliery                           | 09.02.26         | 11:55 AM         | No Discharge |           |             |              |            |             |                 |
| 4     | 6&7 Pits Colliery                                     | 09.02.26         | 10:50 AM         | No Discharge |           |             |              |            |             |                 |
| 5     | Digwadih Colliery                                     | 09.02.26         | 10:30 AM         | No Discharge |           |             |              |            |             |                 |

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

  
Lab.Assistant (Environment)

  
Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 46 / 2026

Dated - 02 / 03 / 2026

**Sub: STP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **FEBRUARY'2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)              | Sampling<br>Date | Sampling<br>Time | Temp   | pH      | TSS          | TDS  | BOD          | COD          | Oil &<br>Grease |
|-------|--------------------------------------------------|------------------|------------------|--------|---------|--------------|------|--------------|--------------|-----------------|
|       |                                                  |                  |                  | < 40°C | 6.5-8.5 | ≤ 10<br>mg/L | -    | ≤ 10<br>mg/L | ≤ 50<br>mg/L | -               |
| 1     | STP, Jmb. Canteen- Inlet                         | 09.02.26         | 12:50 PM         | 27     | 7.8     | 109          | 922  | 34.1         | 236          | 5.9             |
| 2     | STP, Jmb. Canteen- Outlet                        | 09.02.26         | 12:55 PM         | 26     | 7.6     | 14           | 873  | 6.2          | 68           | 1.4             |
| 3     | STP, JCPP Canteen- Inlet                         | 09.02.26         | 12:35 PM         | 26     | 7.7     | 113          | 952  | 36.4         | 318          | 5.6             |
| 4     | STP, JCPP Canteen- Outlet                        | 09.02.26         | 12:40 PM         | 25     | 7.5     | 35           | 921  | 5.8          | 96           | 1.1             |
| 5     | STP, Railway Colony- Inlet                       | 09.02.26         | 12:15 PM         | 27     | 7.9     | 163          | 1048 | 35.7         | 324          | 3.2             |
| 6     | STP, Railway Colony-Outlet                       | 09.02.26         | 12:20 PM         | 26     | 7.8     | 39           | 997  | 6.7          | 102          | 2.1             |
| 7     | STP, Digwadih 12 No.<br>Officer's colony-Inlet   | 09.02.26         | 09:50 AM         | 26     | 8.2     | 110          | 763  | 29.7         | 271          | 3.6             |
| 8     | STP, Digwadih 12 No.<br>Officer's colony- Outlet | 09.02.26         | 09:55 AM         | 25     | 8.0     | 14           | 706  | 3.6          | 88           | 1.0             |
| 9     | STP, Digwadih 12 No.<br>Supervisor flat - Inlet  | 09.02.26         | 10:10 AM         | 26     | 7.8     | 114          | 678  | 31.4         | 262          | 3.8             |
| 10    | STP, Digwadih 12 No.<br>Supervisor flat -Outlet  | 09.02.26         | 10:15 AM         | 25     | 7.6     | 22           | 622  | 3.8          | 52           | 1.3             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-**October-25 to March-26**)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
C.M.O, TMH, Jamadoba

Ref. No. - JMB / ENV / LAB / 03 / 79 / 2026

Dated - 06 / 04 / 2026

**Sub: ETP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **MARCH'2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point) | Sampling<br>Date | Sampling<br>Time | Temp   | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------|------------------|------------------|--------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                     |                  |                  | < 40°C | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | ETP, TMH- Inlet                     | 13.03.26         | 11:55 AM         | 27     | 8.3       | 128         | 916          | 29.7       | 291         | 3.5             |
| 2     | ETP, TMH- Outlet                    | 13.03.26         | 12:05 PM         | 26     | 8.1       | 22          | 882          | 5.8        | 93          | 1.0             |
| 3     | ETP, Garage- Inlet                  | 13.03.26         | 12:55 PM         | 28     | 8.2       | 105         | 798          | 29.6       | 267         | 4.1             |
| 4     | ETP, Garage- Outlet                 | 13.03.26         | 01:00 PM         | 27     | 8.0       | 24          | 726          | 6.1        | 62          | 1.4             |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.

Lab.Assistant (Environment)

Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Area Manager, Jamadoba Colliery  
Manager, Digwadih Colliery  
Manager Mining ,6&7 Pits Colliery

Ref. No. - JMB / ENV / LAB / 03 / 77 / 2026

Dated - 06 / 04 / 2026

**Sub: MINE WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **MARCH'2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)<br>(Mine's Water) | Sampling<br>Date | Sampling<br>Time | Temp         | pH        | TSS         | TDS          | BOD        | COD         | Oil &<br>Grease |
|-------|-------------------------------------------------------|------------------|------------------|--------------|-----------|-------------|--------------|------------|-------------|-----------------|
|       |                                                       |                  |                  | < 40°C       | 5.5 - 9.0 | 100<br>mg/l | 2100<br>mg/l | 30<br>mg/l | 250<br>mg/l | 10<br>mg/l      |
| 1     | 2 Pit Jamadoba Colliery                               | 13.03.26         | 09:25 AM         | No Discharge |           |             |              |            |             |                 |
| 2     | 3 Pit Jamadoba Colliery                               | 13.03.26         | 09:40 AM         | No Discharge |           |             |              |            |             |                 |
| 3     | 2 Incline Jamadoba Colliery                           | 13.03.26         | 10:00 AM         | No Discharge |           |             |              |            |             |                 |
| 4     | 6&7 Pits Colliery                                     | 13.03.26         | 11:45 AM         | No Discharge |           |             |              |            |             |                 |
| 5     | Digwadih Colliery                                     | 13.03.26         | 11:25 AM         | No Discharge |           |             |              |            |             |                 |

All the parameters are within the limit, and you are requested to maintain the same.

This is for your information and necessary action please.



Lab.Assistant (Environment)



Manager (Environment)

Ambient Air Quality, Ambient Noise Quality, Effluent Water and Groundwater Quality Report  
(Period-October-25 to March-26)

Annexure- II

**TATA STEEL LIMITED**  
JHARIA DIVISION

Head, Jamadoba Coal Preparation Plant  
Area Manager Jamadoba Colliery  
Manager Digwadih Colliery

Ref. No. - JMB / ENV / LAB / 03 / 78 / 2026

Dated - 06 / 04 / 2026

**Sub: STP WATER ANALYSIS REPORT.**

We wish to inform you that Trade Effluent Sampling was carried out in **JAMADOBA GROUP** in the month of **MARCH'2026**.  
The results are as given below:

| S. No | Location<br>(Final Discharge Point)              | Sampling<br>Date | Sampling<br>Time | Temp   | pH      | TSS          | TDS | BOD          | COD          | Oil &<br>Grease |
|-------|--------------------------------------------------|------------------|------------------|--------|---------|--------------|-----|--------------|--------------|-----------------|
|       |                                                  |                  |                  | < 40°C | 6.5-8.5 | ≤ 10<br>mg/L | -   | ≤ 10<br>mg/L | ≤ 50<br>mg/L | -               |
| 1     | STP, Jmb. Canteen- Inlet                         | 13.03.26         | 12:40 PM         | 28     | 7.7     | 119          | 872 | 36.2         | 306          | 4.1             |
| 2     | STP, Jmb. Canteen- Outlet                        | 13.03.26         | 12:45 PM         | 27     | 7.5     | 11           | 806 | 5.9          | 72           | 1.2             |
| 3     | STP, JCPP Canteen- Inlet                         | 13.03.26         | 12:15 PM         | 27     | 7.9     | 127          | 910 | 33.4         | 289          | 4.7             |
| 4     | STP, JCPP Canteen- Outlet                        | 13.03.26         | 12:20 PM         | 26     | 7.7     | 24           | 897 | 3.9          | 106          | 1.3             |
| 5     | STP, Railway Colony- Inlet                       | 13.03.26         | 10:15 AM         | 28     | 7.8     | 102          | 872 | 31.2         | 284          | 3.7             |
| 6     | STP, Railway Colony-Outlet                       | 13.03.26         | 10:20 AM         | 27     | 7.6     | 19           | 821 | 5.8          | 82           | 1.9             |
| 7     | STP, Digwadih 12 No.<br>Officer's colony-Inlet   | 13.03.26         | 11:05 AM         | 28     | 8.1     | 136          | 778 | 32.5         | 315          | 4.1             |
| 8     | STP, Digwadih 12 No.<br>Officer's colony- Outlet | 13.03.26         | 11:10 AM         | 27     | 7.9     | 16           | 725 | 4.2          | 56           | 1.4             |
| 9     | STP, Digwadih 12 No.<br>Supervisor flat - Inlet  | 13.03.26         | 10:50 AM         | 28     | 7.9     | 146          | 692 | 30.7         | 284          | 4.2             |
| 10    | STP, Digwadih 12 No.<br>Supervisor flat -Outlet  | 13.03.26         | 10:55 AM         | 27     | 7.8     | 23           | 654 | 3.3          | 92           | 1.2             |

All the parameters are within the limit, and you are requested to maintain the same.  
This is for your information and necessary action please.

Lab.Assistant (Environment)

Manager (Environment)

**सूचना**

जन साधारण को सूचित किया जाता है कि भारत सरकार, वन एवं पर्यावरण मंत्रालय के पत्रांक संख्या - J-11015/203/2011-IA.II(M) के जरिए जामाडोबा कोल वाशरी (1.0 मिलियन टन प्रतिवर्ष से 2.0 मिलियन टन प्रतिवर्ष विस्तारीकरण परियोजना) मेसर्स टाटा स्टील लिमिटेड, जामाडोबा, जिला-धनबाद को पर्यावरण स्वीकृति प्रदान की गयी है, जिसकी प्रतिलिपि क्षेत्रीय कार्यालय, झारखण्ड राज्य प्रदूषण नियंत्रण परिषद, धनबाद में उपलब्ध है तथा भारत सरकार, वन एवं पर्यावरण मंत्रालय के इंटरनेट साइट <http://envfor.nic.in> पर भी देखी जा सकती है।

महाप्रबंधक (झरिया)

टाटा स्टील, जामाडोबा (धनबाद)

FROM THE PRESS

Publication **HINDUSTANI, DHANBAD** Date **11-3-14**



**सूचना**

जन साधारण को सूचित किया जाता है कि भारत सरकार, वन एवं पर्यावरण मंत्रालय के पत्रांक संख्या - J-11015/203/2011-IA.II(M) के जरिए जामाडोबा कोल वाशरी (1.0 मिलियन टन प्रतिवर्ष से 2.0 मिलियन टन प्रतिवर्ष विस्तारीकरण परियोजना) मेसर्स टाटा स्टील लिमिटेड, जामाडोबा, जिला-धनबाद को पर्यावरण स्वीकृति प्रदान की गयी है, जिसकी प्रतिलिपि क्षेत्रीय कार्यालय, झारखण्ड राज्य प्रदूषण नियंत्रण परिषद, धनबाद में उपलब्ध है तथा भारत सरकार, वन एवं पर्यावरण मंत्रालय के इंटरनेट साइट <http://envfor.nic.in> पर भी देखी जा सकती है।

महाप्रबंधक (झरिया)

टाटा स्टील, जामाडोबा (धनबाद)



TATA STEEL

## सूचना

जन साधारण को सूचित किया जाता है कि भारत सरकार, वन एवं पर्यावरण मंत्रालय के पत्रांक संख्या - J-11015/373/2010-IA.II(M) के जरिए 6 एवं 7 पिट्स कोलियरी (0.28 मिलियन टन प्रतिवर्ष से 0.6 मिलियन टन प्रतिवर्ष विस्तारीकरण परियोजना) मेसर्स टाटा स्टील लिमिटेड, जामाडोबा, जिला-धनबाद को पर्यावरण स्वीकृति प्रदान की गयी है, जिसकी प्रतिलिपि क्षेत्रीय कार्यालय, झारखण्ड राज्य प्रदूषण नियंत्रण परिषद, धनबाद में उपलब्ध है तथा भारत सरकार, वन एवं पर्यावरण मंत्रालय के इंटरनेट साइट <http://envfor.nic.in> पर भी देखी जा सकती है।

महाप्रबंधक (झरिया)

टाटा स्टील, जामाडोबा (धनबाद)

FROM THE PRESS

Publication **DAINIK JAGRAN, DHANBAD** Date **11-3-14**



**सूचना**

जन साधारण को सूचित किया जाता है कि भारत सरकार, वन एवं पर्यावरण मंत्रालय के पत्रांक संख्या - J-11015/373/2010-IA.II(M) के जरिए 6 एवं 7 पिट्स कोलियरी (0.28 मिलियन टन प्रतिवर्ष से 0.6 मिलियन टन प्रतिवर्ष विस्तारीकरण परियोजना) मेसर्स टाटा स्टील लिमिटेड, जामाडोबा, जिला-धनबाद को पर्यावरण स्वीकृति प्रदान की गयी है, जिसकी प्रतिलिपि क्षेत्रीय कार्यालय, झारखण्ड राज्य प्रदूषण नियंत्रण परिषद, धनबाद में उपलब्ध है तथा भारत सरकार, वन एवं पर्यावरण मंत्रालय के इंटरनेट साइट <http://envfor.nic.in> पर भी देखी जा सकती है।

महाप्रबंधक (झरिया)

टाटा स्टील, जामाडोबा (धनबाद)

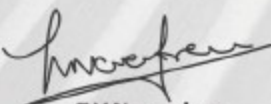
CORPORATE COMMUNICATIONS  
JHARIA DIVISION

## ENVIRONMENTAL POLICY

Tata Steel's environmental responsibilities are driven by our commitment to preserve the environment and are integral to the way we do business.

1. We are committed to deal proactively with Climate Change issue by efficient use of natural resources & energy; reducing and preventing pollution; promoting waste avoidance and recycling measures; and product stewardship.
  - We shall identify, assess and manage our environment impact.
  - We shall regularly monitor, review and report publicly our environmental performance.
  - We shall develop & rehabilitate abandoned sites through afforestation and landscaping and shall protect and preserve the biodiversity in the areas of our operations.
  - We shall enhance awareness, skill and competence of our employees and contractors so as to enable them to demonstrate their involvement, responsibility and accountability for sound environmental performance.
2. We are committed to continual improvement in our environmental performance.
  - We shall set objective-targets, develop, implement and maintain management standards and systems, and go beyond compliance of the relevant industry standards, legal and other requirements.
3. We will truly succeed when we sustain our environmental achievement and are valued by the communities in which we work.

Date : November 1, 2017



**TV Narendran**  
CEO & Managing Director



Municipal Commissioner,  
Dhanbad.

Ref No.: JMB/ENV/DIG/37/ 805 /2018

September 17 , 2018

Sub: Submission of copy of Environmental Clearance granted to units of M/s Tata Steel Limited

Dear Sir,

Please find enclosed the letter of Environmental Clearance (EC) granted by MoEFCC to various units of Tata Steel Limited, Jharia Division, Dhanbad as per the following details-

1. Digwadih Colliery (for expansion from 0.38 MTPA to 0.6 MTPA in ML area 314.57 ha), dist. Dhanbad, Jharkhand.
2. 6 & 7 Pits Colliery (for expansion from 0.28 MTPA to 0.6 MTPA in ML area 168.12 ha), dist. Dhanbad, Jharkhand.
3. Jamadoba Coal Washery (for expansion from 1 MTPA to 2 MTPA in 7 Ha area), dist. Dhanbad, Jharkhand.

The copy of EC letter and its compliance is also uploaded in website (<http://www.tatasteel.com/sustainability/environment-compliance-reports/>) for your kind perusal.

Thanking You,

Yours faithfully,



Head, Planning  
Jharia Division

