



The IGF Incharge,  
GOI, MOEF&CC,  
Integrated Regional Office, Kolkata,  
1B-198, Salt Lake City,  
Sector III, Kolkata- 700106

Ref No. - JMB/ENV/~~PKDMV/63/254~~/2025  
May 28<sup>th</sup>, 2025

Ref.: Environmental Clearance letter no. - J-11015/422/2012-IA.II (M), Dated- 05.11.2015  
(Amended on 30.11.2015).

**SUB: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEFCC, New Delhi to Preamsingdih Sand Lease, Tata Steel Limited, Dhanbad for the period October-24 to March-2025.**

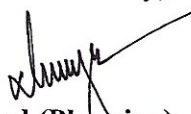
Dear Sir,

We are enclosing herewith compliance report for the period **October-24 to March-2025** for the EC granted vide letter no.- J-11015/422/2012-IA.II(M), Dated-05.11.2015 (amended on 30.11.2015) 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, WBPCB, Paribesh Bhavan, 10A, Block-L.A., Sector III, Salt Lake,  
City, Kolkata - 700 098

Copy to: Regional Officer, Asansol Regional Office, WBPCB, DDA, Commercial Market  
(2<sup>nd</sup> Floor), Asansol – 713301, Burdwan.

**TATA STEEL LIMITED**

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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/WB/MIN/8936/2012
<b>Compliance ID</b>	127811252
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/127811252/2025
<b>Reporting Year</b>	2025
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	31-05-2025
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	WEST BENGAL
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Kolkata

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

**Half Yearly Compliance Report  
2025  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>	Mining of Mineral Sand (Minor Mineral) from the River Bed of Gowai with proposed capacity of 0.2 MTPA (ROM) by M/s Tata Steel Ltd., located at village- Premsinghdih, Poradih, Erandih, Tehsil  Raghunathpur District - Purulia, West Bengal (MLA-44.10 ha)		
<b>Name of Entity / Corporate Office</b>	Tata Steel Ltd.		
<b>Village(s)</b>	N/A		
<b>District</b>	PURULIA		
<b>Proposal No.</b>	IA/WB/MIN/8936/2012	<b>Category</b>	Non-Coal Mining
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	WEST BENGAL	<b>Entity's PAN</b>	*****2803M
<b>MoEF File No.</b>	J-11015/422/2012.IA.II(M)	<b>Entity name as per PAN</b>	UTSAV KASHYAP

**Compliance Reporting Details**

<b>Reporting Year</b>	2025
<b>Remarks (if any)</b>	Half Yearly Compliance Submission for October-24 to March-25 for Mining of Mineral Sand (Minor Mineral) from the River Bed of Gowai with proposed capacity of 0.2 MTPA (ROM) by M/s Tata Steel Ltd., located at village- Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur District - Purulia, West Bengal (MLA-44.10 ha).
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

<b>Name of Entity / Corporate Office</b>	Tata Steel Ltd.	
	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	0	0
Revenue Land	0	0
Forest	0	0

Others	44.1	44.1				
Total	44.1	44.1				
Production Capacity						
Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Sand	Million Tons per Annum (MTPA)	N/A	0.2	0.0458	
Conditions						
Specific Conditions						
Sr.No.	Condition Type	Condition Details				
1	Statutory compliance	Environmental Clearance is granted subject to final outcome of Hon’ble Supreme Court of India, Hon’ble High Court of West Bengal and any other Court of Law, if any, as may be applicable to this project.				
PPs Submission: Complied All the judgements applicable to this project will be strictly followed.						Date: 23/05/2025
2	Statutory compliance	This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, applicable for this Mining Project.				
PPs Submission: Complied It is not applicable for this mining project.						Date: 23/05/2025
3	Statutory compliance	No mining activities will be allowed in forest areas, if any, for which the Forest Clearance is not available.				
PPs Submission: Complied There is no forest area involved.						Date: 23/05/2025
4	Statutory compliance	The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, West Bengal and effectively implement all the conditions stipulated therein.				
PPs Submission: Complied The Consent to Establish has been granted by WBPCB vide letter no. 1055-2N-02/2015(E) dated 17.12.2015. The Consent to Operate (CTO) has been granted by WBPCB vide Consent Letter No:CO118281; Memo No.- 552 WPBA/ Red(ppl) / cont (404)/18 dated-29.12.2020 with validity up to 31.12.2025. The mining has started after the grant of CTO and all the conditions stipulated therein are being effectively implemented.						Date: 23/05/2025
5	MISCELLANEOUS	Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.				

<b>PPs Submission:</b> Complied Excavation is being done as per the Sustainable Sand Mining guidelines as stipulated by MoEFCC.		Date: 23/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/ dumpers carrying the mineral should not be allowed to pass through the villages.
<b>PPs Submission:</b> Complied Transportation of sand is done by a dedicated Pucca road starting from the riverbed till the colliery sand bunker. The trucks/ dumpers will not pass through the village roads.		Date: 23/05/2025
7	Statutory compliance	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
<b>PPs Submission:</b> Complied The transportation road is pucca throughout and it will be ensured that the road is not damaged. In case small repairs are required, it will be done by the company.		Date: 23/05/2025
8	PUBLIC HEARING	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.
<b>PPs Submission:</b> Complied All the points mentioned in the action plan have been implemented. They are related to environmental protection measures like water spraying, tree plantation and road repairing activities. Remaining points related to CSR like health care facilities have also been taken up by our CSR wing TSRDS.		Date: 23/05/2025
9	AIR QUALITY MONITORING AND PRESERVATION	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing center; Washing of all transport vehicle should be done inside the mining lease.
<b>PPs Submission:</b> Complied Water sprinkling on the transportation road is being done regularly to minimize the pollution. The vehicles used are being regularly checked and maintained. Only vehicles having valid PUC certificates are allowed to ply. Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded. The washing of trucks is being done in garages/ workshop located away from the riverbed as this is a river-bed sand mining project and washing of trucks near the river may degrade the river water quality.		Date: 23/05/2025
10	WATER QUALITY MONITORING AND PRESERVATION	Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the ground and 1.2m above the ground to observe its stability.
<b>PPs Submission:</b> Complied Permanent pillars have been erected marking the boundary of the mine lease area.		Date: 23/05/2025
11	Statutory compliance	The Project Proponent shall also take all precautionary measures during mining operation for conservation and protection of

		endangered flora/fauna, if any, spotted in the study area. Further, the Project Proponent shall implement the Conservation Plan for the Schedule I species, if any, reported in the Study area. The implementation Report shall be sent regularly to Regional Office of the MOEFCC located at Bhubaneswar.
<b>PPs Submission:</b> Complied All precautionary measures are being taken during mining operation to protect the flora and fauna. As per the last study done, there were no endangered species near to the mining lease area.		Date: 23/05/2025
12	Noise Monitoring & Prevention	The illumination and sound at night at project site disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponent must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/ night hours.
<b>PPs Submission:</b> Complied There are no floodlights erected due to the project. Noise levels is being kept well within the prescribed limits.		Date: 23/05/2025
13	AIR QUALITY MONITORING AND PRESERVATION	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.
<b>PPs Submission:</b> Complied There is no haulage road since it is a river-bed sand excavation project. Only temporary access roads are made on the sand lumps. Further, water spraying activity on transportation roads is being done with the help of water tankers.		Date: 23/05/2025
14	AIR QUALITY MONITORING AND PRESERVATION	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The Project Proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
<b>PPs Submission:</b> Complied It is being strictly complied. The transportation will not be done through the village roads. A dedicated pucca road network is available which is being used for the sand transportation activity.		Date: 23/05/2025
15	MISCELLANEOUS	Likewise, Alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/ public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternate arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.
<b>PPs Submission:</b> Complied There is no such acquisition required for this project.		Date: 23/05/2025
16	Statutory compliance	CSR activities by Companies including the Mining Establishments have become mandatory up to 2% of their financial Turn-over. Socio

		Economic Development of the neighborhood Habitats could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/ Workers. The report shall be submitted to the Ministry of Environment and Forest and its Regional Office located at Bhubaneshwar on six monthly basis.
<b>PPs Submission:</b> Complied The CSR activities are being done and the 2 percentage mandate is being fulfilled at the company level. The CSR report of our division is being enclosed with this compliance report as Annexure-II.		Date: 29/05/2025
17	Human Health Environment	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the Project.
<b>PPs Submission:</b> Complied Since all the workers are being engaged from the nearby villages, there is no requirement of separate housing for this project.		Date: 23/05/2025
18	Statutory compliance	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the MOEFCC 5 years in advance of final mine closure for approval.
<b>PPs Submission:</b> Complied The Mine Plan along with MCP has been approved in 2014. This is a river-bed sand mining project and the sand gets replenished every year so there is no requirement for any mine closure activity except for the removal of temporary infrastructure or machinery available on the site.		Date: 23/05/2025
19	MISCELLANEOUS	In the case of private land not owned by the lease holder an affidavit should be obtained regarding consent of the concerned land owner(s) for carrying out the mining operation.
<b>PPs Submission:</b> Complied Not applicable as no private land is involved in this project.		Date: 23/05/2025
20	MISCELLANEOUS	Stakeholder awareness and ability to raise concerns and getting it to be addressed.
<b>PPs Submission:</b> Complied All stakeholders are given opportunity to raise their concerns with General Manager, Coal on weekly basis (every Monday).		Date: 23/05/2025
21	PUBLIC HEARING	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.
<b>PPs Submission:</b> Complied All the points mentioned in the action plan have been implemented. They are related to environmental protection measures like water spraying, tree plantation and road repairing activities. Remaining points related to CSR like health care facilities have also been taken up by our CSR wing TSRDS.		Date: 23/05/2025
22	MISCELLANEOUS	Having valid lease and all the permits is very much needed.

<b>PPs Submission:</b> Complied The project has valid lease as well as all necessary permits required from the statutory authorities.		Date: 23/05/2025
23	MISCELLANEOUS	To establish a Monitoring Committee including Local Panchayat, to check on traffic due to transportation and submit an annual report on the same.
<b>PPs Submission:</b> Complied A Monitoring Committee has been appointed to monitor the replenishment study, traffic management, levels of production, River Bank erosion, maintenance of Road, etc on regular basis. The committee comprises officials from the Mine Planning, Survey, Environment and CSR Departments. Feedback from the Panchayat officials of nearby villages is also considered.		Date: 23/05/2025
24	Statutory compliance	The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos.19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 may be strictly followed.
<b>PPs Submission:</b> Complied All the directions in the above cases will be strictly followed.		Date: 23/05/2025
25	Statutory compliance	All the provisions made and restrictions imposed as covered in the Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.
<b>PPs Submission:</b> Complied This is not applicable as sand used for stowing is a major mineral.		Date: 23/05/2025
26	Statutory compliance	District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.
<b>PPs Submission:</b> Complied This is a major mineral hence this survey report is not required.		Date: 23/05/2025
27	Statutory compliance	The depth of mining in Riverbed shall not exceed one meter or water level whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can go up to 3 meters on defined reaches of the River.
<b>PPs Submission:</b> Complied The depth of mining will not exceed 3 meters.		Date: 23/05/2025
28	WATER QUALITY MONITORING AND PRESERVATION	No River sand mining be allowed in rainy season.
<b>PPs Submission:</b> Complied Sand mining does not take place during rainy season. Mining activity is suspended during the monsoon period.		Date: 23/05/2025
29	WATER QUALITY MONITORING AND PRESERVATION	Ultimate working depth shall be up to 3m from the Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier. In hilly terrain this depth be preferably restricted to one meter.



<b>PPs Submission:</b> Complied The depth of mining will not exceed 3 meters and not less than one meter from the water level of the River channel if it is reached earlier.		Date: 23/05/2025
30	MISCELLANEOUS	In River flood plain mining a buffer of 3 meters to be left from the River bank for mining.
<b>PPs Submission:</b> Complied This is not applicable.		Date: 23/05/2025
31	MISCELLANEOUS	In mining from agricultural field a buffer of 3 meters to be left from the adjacent field.
<b>PPs Submission:</b> Complied This is not applicable.		Date: 23/05/2025
32	MISCELLANEOUS	Mining shall be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
<b>PPs Submission:</b> Complied Sand excavation activity is being done as per these guidelines to avoid ponding effect.		Date: 23/05/2025
33	WATER QUALITY MONITORING AND PRESERVATION	To maintain safety and stability of Riverbanks i.e. 3 meters or 10% of the width of the River whichever is more will be left intact as no mining zone.
<b>PPs Submission:</b> Complied 10 percentage of the width has been left intact as no mining zone.		Date: 23/05/2025
34	WATER QUALITY MONITORING AND PRESERVATION	No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
<b>PPs Submission:</b> Complied It will be strictly followed.		Date: 23/05/2025
35	WATER QUALITY MONITORING AND PRESERVATION	No blasting shall be resorted to in river mining and without permission at any other place.
<b>PPs Submission:</b> Complied No blasting is involved.		Date: 23/05/2025
36	MISCELLANEOUS	Depending upon the location, thickness of sand, deposition, agricultural land/river bed, the method of mining may be manual, semi-mechanized or mechanized; however, manual method of mining shall be preferred over any other method.
<b>PPs Submission:</b> Complied Semi mechanized method of mining are used for excavation of sand.		Date: 23/05/2025
37	MISCELLANEOUS	Mining should be done only in area/ stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub-Divisional Level Committee after site visit.

<b>PPs Submission:</b> Complied The District survey report is not applicable for major mineral projects.		Date: 23/05/2025
38	LAND RECLAMATION	The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.
<b>PPs Submission:</b> Complied This is not applicable as no top soil generation is involved.		Date: 23/05/2025
39	Statutory compliance	The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.
<b>PPs Submission:</b> Complied All records of quantity of sand mined out and dispatched from the mine are available with our Mine Planning Department. Mode of transport of sand is truck. A copy of challan issued to truck also exists with us in which the registration number and person-in-charge of vehicle are mentioned. These documents are being properly maintained and shall be produced during any inspection.		Date: 23/05/2025
40	MISCELLANEOUS	For each mining lease site, the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
<b>PPs Submission:</b> Complied It is being strictly followed. The entire mineral being transported is accounted for. All trucks carry valid mining challans issued by the office of the Chief Mining Officer.		Date: 23/05/2025
41	Statutory compliance	The State/ District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the lease area and the number of trucks moving out with the mineral.
<b>PPs Submission:</b> Complied Regulation of sand transport from our lease area is being done by Chief Mining Officer, Asansol. Manual permits are being issued as online facility for issuing the permit has not been implemented yet in West Bengal.		Date: 23/05/2025
42	Statutory compliance	There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.
<b>PPs Submission:</b> Complied We will effectively comply with all the applicable EC conditions. Monitoring committee inspects the lease area on regular basis.		Date: 23/05/2025
43	Noise Monitoring & Prevention	Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.
<b>PPs Submission:</b> Complied Noise generation is expected only during the operation of shovel and dumpers and during transportation. We will ensure that the machinery is kept in good conditions and are regularly maintained so that noise from their engines is minimized. Every care possible is being taken to keep noise level within permissible limit.		Date: 23/05/2025

44	Noise Monitoring & Prevention	Restricted working hours. Sand mining operation has to be carried out between 6 am to 7 pm.
<b>PPs Submission:</b> Complied Our sand excavation activity takes place only during above mentioned hours.		Date: 23/05/2025
45	AIR QUALITY MONITORING AND PRESERVATION	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly.
<b>PPs Submission:</b> Complied Water sprinkling on the transportation road is being done regularly to minimize the pollution load on the environment.		Date: 23/05/2025
46	AIR QUALITY MONITORING AND PRESERVATION	The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.
<b>PPs Submission:</b> Complied Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded.		Date: 23/05/2025
47	MISCELLANEOUS	The mining operations are to be done in a systematic manner so that the operations shall not create a major visual impact on the site.
<b>PPs Submission:</b> Complied Mining is being done in a systematic manner. The biodiversity and aesthetic beauty of the area will be maintained always.		Date: 23/05/2025
48	GREENBELT	Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 2500 trees per hectare in area near lease.
<b>PPs Submission:</b> Complied It will be ensured that flora is not affected or damaged by the sand mining operations. Tree saplings have been distributed to nearby villagers. Since almost all the area near lease is private land, we undertake plantation activities in consultation with the land-owners.		Date: 23/05/2025
49	Statutory compliance	No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
<b>PPs Submission:</b> Complied Not applicable as no forest area is involved.		Date: 23/05/2025
50	MISCELLANEOUS	Protection of turtle and bird habitats shall be ensured.
<b>PPs Submission:</b> Complied Not applicable as no such habitat exists near our lease area.		Date: 23/05/2025
51	Statutory compliance	No felling of tree near quarry is allowed. For mining lease within 10km of the National Park/ Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wildlife (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.

<b>PPs Submission:</b> Complied It is not applicable.		Date: 23/05/2025
52	MISCELLANEOUS	Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.
<b>PPs Submission:</b> Complied It is not applicable.		Date: 23/05/2025
53	MISCELLANEOUS	Removal, stacking and utilization of top soil in mining should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
<b>PPs Submission:</b> Complied It is not applicable as no top soil will be generated.		Date: 23/05/2025
54	MISCELLANEOUS	The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.
<b>PPs Submission:</b> Complied It is not applicable.		Date: 23/05/2025
55	MISCELLANEOUS	Use of oversize material to control erosion and movement of sediments.
<b>PPs Submission:</b> Complied It is not applicable.		Date: 23/05/2025
56	MISCELLANEOUS	No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.
<b>PPs Submission:</b> Complied It will be strictly followed.		Date: 23/05/2025
57	MISCELLANEOUS	No extraction of stone/ boulder/ sand in landslide prone areas.
<b>PPs Submission:</b> Complied There are no landslide prone areas near our lease.		Date: 23/05/2025
58	MISCELLANEOUS	Controlled clearance of riparian vegetation to be undertaken.
<b>PPs Submission:</b> Complied No riparian vegetation is proposed to be disturbed.		Date: 23/05/2025
59	WASTE MANAGEMENT	Site clearance and tidiness is very much needed to have less visual impact of mining.
<b>PPs Submission:</b> Complied Housekeeping and tidiness of the area will always be maintained.		Date: 23/05/2025
60	WASTE MANAGEMENT	Dumping of waste shall be done in earmarked places as approved in

		Mining Plan.
<b>PPs Submission:</b> Complied No waste will be generated.		Date: 23/05/2025
61	WASTE MANAGEMENT	Rubbish burial shall not be done in the Rivers.
<b>PPs Submission:</b> Complied No such burial will be done in the river.		Date: 23/05/2025
62	MISCELLANEOUS	The EC holder shall take all possible precautions for the protection of environment and control of pollution.
<b>PPs Submission:</b> Complied All necessary precautions will be taken as mentioned in earlier points.		Date: 23/05/2025
63	MISCELLANEOUS	Effluent discharge should be kept to the minimum and it should meet the standards prescribed.
<b>PPs Submission:</b> Complied No water for industrial purpose is required for the sand excavation activity. Further there will be no township as all manpower will be from the nearby villages. Hence, no generation of effluent is envisaged.		Date: 23/05/2025
64	Statutory compliance	Mining shall not be undertaken in a mining lease located in 200-500 meter of bridge, 200 meter upstream and downstream of water supply/ irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.
<b>PPs Submission:</b> Complied It is being strictly followed.		Date: 23/05/2025
65	MISCELLANEOUS	For carrying out mining in proximity to any bridge or embankment, appropriate safety zone (not less than 200 meters) should be worked out on case to case basis, taking into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.
<b>PPs Submission:</b> Complied It is being strictly followed.		Date: 23/05/2025
66	MISCELLANEOUS	Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical and archeological importance.
<b>PPs Submission:</b> Complied No such danger is posed by our mining lease.		Date: 23/05/2025
67	Statutory compliance	Vehicles used for transportation of sand are to be permitted only with fitness and PUC Certificates.
<b>PPs Submission:</b> Complied Only vehicles having valid PUC and fitness certificates can apply.		Date:

		23/05/2025
68	MISCELLANEOUS	Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
<b>PPs Submission:</b> Complied The approach roads are of adequate width and there is no risk of traffic congestion in the area. This has been validated in the traffic density study conducted previously.		Date: 23/05/2025
69	Statutory compliance	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.
<b>PPs Submission:</b> Complied The transportation road is pucca throughout and it will be ensured that the road is not damaged. In case small repairs are required, it will be done by the company.		Date: 23/05/2025
70	MISCELLANEOUS	No stacking allowed on road side along National Highways.
<b>PPs Submission:</b> Complied No stacking is being done. The sand is transported directly to the sand yards of our underground mines.		Date: 23/05/2025
71	LAND RECLAMATION	The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.
<b>PPs Submission:</b> Complied No land will be affected due to the project.		Date: 23/05/2025
72	LAND RECLAMATION	Restoration, reclamation and rehabilitation in cluster should be done systematically and jointly by each EC holder in that cluster. This should be appropriately reflected as EC condition in each EC in cluster.
<b>PPs Submission:</b> Complied This is not applicable as this is a single mine lease and not part of any EC cluster.		Date: 23/05/2025
73	LAND RECLAMATION	Site specific plan with eco-restoration should be in place and implemented.
<b>PPs Submission:</b> Complied Tree plantation activities is being done in the area as part of eco-restoration.		Date: 23/05/2025
74	Human Health Environment	Health and safety of workers should be taken care of.
<b>PPs Submission:</b> Complied All the safety procedures are being implemented including safe driving checks and over-speeding checks. Health care to workers are provided at our Hospital.		Date: 23/05/2025
75	Human Health Environment	Transport of mineral will not be done through villages/ habitations.
<b>PPs Submission:</b> Complied It is being complied with. It will not be done through any village or habitation.		Date: 23/05/2025

76	Human Health Environment	The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.
<b>PPs Submission:</b> Complied All the above arrangements will be done at the mining site.		Date: 23/05/2025
77	Human Health Environment	Project Proponent shall implement the Disaster Management Plan if the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels.
<b>PPs Submission:</b> Complied The mine lease area lies in Seismic Zone-III so it is not applicable.		Date: 23/05/2025
78	Human Health Environment	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers etc. shall be undertaken once in six months and necessary remedial/ preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.
<b>PPs Submission:</b> Complied Our central hospital located at Jamadoba, already has an Occupational Health Specialist to cater to the medical checkups/ medical care of the workers. The workers involved in this project will also be provided medical care in our central hospital.		Date: 23/05/2025
79	MISCELLANEOUS	Use of alternate material such as M-sand in place of natural River sand shall be encouraged in order to reduce stress on natural eco-system.
<b>PPs Submission:</b> Complied We have previously explored the use of BF Slag and LD Slag as replacement for sand but it was not found suitable for underground backfilling due to operational and environmental issues.		Date: 23/05/2025
80	MISCELLANEOUS	The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
81	MISCELLANEOUS	Project Proponent must ensure that the security features of Transport Permission viz. (a) Printed on Indian Bank Association (IBA) approved Magnetic Ink Character Recognition Code (MICR) paper; (b) Unique Barcode; (c) Unique Quick Response Code (QR); (d) Fugitive Ink Background; (e) Invisible Ink Mark; (f) Void Pantograph; (g) Watermark.
<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
82	MISCELLANEOUS	Project proponent must ensure that the CCTV camera, Personal Computer (PC), Internet Connection, Power Back up, access control of mine lease site; and arrangement for weight or approximation of weight of mined out mineral on basis of volume of the trailer of vehicle used at mine lease site are available.

<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
83	MISCELLANEOUS	Project Proponent must ensure the Scanning of Transport Permit or Receipt and Uploading on Server.
<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
84	Statutory compliance	The State Mines and Geology Department should print the Transport Permits/ Receipt with security features enumerated at Paragraph (i) above and issue them to the mine lease holder through the District Collector. Once these Transport Permits or Receipts are issued, they would be uploaded on the server against that mine lease area. Each receipt should be preferably with pre-fixed quantity, so the total quantity gets determined for the receipts issued. When the Transport Permit or Receipt barcode gets scanned and invoice is generated, that particular barcode gets used and its validity time is recorded on the server. So all the details of transporting of mined out material can be captured on the server and the Transport Permit or Receipt cannot be reused.
<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
85	MISCELLANEOUS	The staff deployed for the purpose of checking of vehicles carrying mined mineral should be in a position to check the validity of Transport permit or Receipt by scanning them using website, Android Application and SMS.
<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
86	MISCELLANEOUS	In case the Vehicle breakdown, the validity of Transport Permit or Receipt shall be extended by sending SMS by driver in specific format to report breakdown of vehicle. The server will register this information and register the breakdown. The State can also establish a call centre, which can register breakdowns of such vehicles and extend the validity period. The subsequent restart of the vehicle also should be similarly reported to the server/ call centre.
<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
87	MISCELLANEOUS	The route of vehicle from source to destination shall be tracked through the system using check points, Radio-frequency identification (RFID) Tags and Global Positioning System (GPS) tracking.
<b>PPs Submission:</b> Complied GPS tracking is being done for every vehicle used for sand transportation from source to destination.		Date: 23/05/2025
88	Statutory compliance	The system shall enable the authorities to develop periodic report on different parameters like daily lifting report, vehicle log/history,



		lifting against allocation and total lifting. The system can be used to generate auto mails/SMS. This will enable the District Collector/ Magistrate to get all the relevant details and will enable the authority to block the scanning facility of any site found to be indulged in irregularity. Whenever any authority intercepts any vehicle transporting illegal sand, it shall get registered on the server and shall be mandatory for the officer to fill in the report on action taken. Every intercepted vehicle should be tracked.
<b>PPs Submission:</b> Complied Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.		Date: 23/05/2025
89	Human Health Environment	The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
<b>PPs Submission:</b> Complied The information has been provided in earlier points.		Date: 23/05/2025
90	Statutory compliance	To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity/ production levels shall be decreased/ stopped accordingly till the replenishment is completed.
<b>PPs Submission:</b> Complied The annual sand replenishment study has already been completed for the project by a reputed institution, Indian School of Mines Dhanbad. The report was submitted along with the EIA/EMP report to MOEFCC for the grant of EC. The findings are provided here- Replenishment Calculation per Km stretch of Damodar in JCF SI Estimation /Assessment Values i) Per km stretch of Damodar the silt load per year 4,78,260m <sup>3</sup> /km/yr ii) Bulk density of sand 1.6 T/m <sup>3</sup> iii) Tonnage of sedimentation per km stretch per year 7,65,216 T/km/yr iv) In a 2.6 Km stretch of the Core the sedimentation 19.9 Lakh Ton/yr v) In South Bank only (ML) SI No (iv)/2 9.95Lakh Tonne So therefore, there is potential for safe excavation of around 9.95 LT of riverbed sand, while the capacity of our project is only 2 LT.		Date: 23/05/2025
91	AIR QUALITY MONITORING AND PRESERVATION	Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.
<b>PPs Submission:</b> Complied Ambient Air monitoring is being done to monitor the dust and gaseous pollution due to operation of shovel and dumpers. It will be kept under the permissible limits. The ambient air analysis reports are attached as Annexure-I.		Date: 23/05/2025
92	Statutory compliance	Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
<b>PPs Submission:</b> Complied Pillars have been erected marking the boundary of the mine lease area. Authentication by DGPS survey has also been conducted and the SHAPE file has been submitted through CD along with our letter (Ref. No- JMB/115/233A/2017) dt. 31.01.2017 to Regional Office, MoEFCC, Bhubaneswar. It is also mailed at roez.bsr-mefnic.in on 31.01.2017.		Date: 23/05/2025
93	Human Health Environment	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/ preventive measures under taken accordingly. Recommendations of National Institute for Labour for

		ensuring good occupational environment for mine workers would also be adopted; Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road, etc.
<b>PPs Submission:</b> Complied a. Our central hospital located at Jamadoba, already has an Occupational Health Specialist to cater to the medical checkups/ medical care of the workers. The workers involved in this project will also be provided medical care in our central hospital. b. A Monitoring Committee has been appointed to monitor the replenishment study, traffic management, levels of production, River Bank erosion, maintenance of Road, etc on regular basis. The committee comprises officials from the Mine Planning, Survey, Environment and CSR Departments. Feedback from the Panchayat officials of nearby villages is also considered.		Date: 23/05/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	WASTE MANAGEMENT	No change in the calendar plan including excavation, quantum of mineral and waste should be made.
<b>PPs Submission:</b> Complied It will be complied with.		Date: 23/05/2025
2	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.
<b>PPs Submission:</b> Complied This is not applicable as there will be no drawl of surface water or ground water.		Date: 23/05/2025
3	MISCELLANEOUS	The upliftment of SC/ ST population, specific programmes have been taken in to consideration specially with respect to education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in future.
<b>PPs Submission:</b> Complied CSR activities by TSRDS are taking place in all the villages located nearby to the mine lease. The above points have been taken into consideration by TSRDS.		Date: 23/05/2025
4	GREENBELT	Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per Ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.
<b>PPs Submission:</b> Complied As our lease area is located on the riverbed, tree plantation is taken up in consultation with the village land owners. We have approached the schools and community places to provide space for tree plantation and have planted various forestry and fruit trees during this monsoon.		Date: 23/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.

<b>PPs Submission:</b> Complied This is not applicable as there is no OB dumps.		Date: 23/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the CPCB in this regard.
<b>PPs Submission:</b> Complied Emissions are envisaged during the movement of trucks from the sand lease till the colliery site. There will be no emissions during sand mining activity. Water spraying will be done on the transport roads to minimize the dust generated during transportation of sand and ultimately maintain the ambient air quality of the area below the CPCB norm.		Date: 23/05/2025
7	AIR QUALITY MONITORING AND PRESERVATION	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for PM10, PM2.5, NOX, SOX & CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. Data on ambient air quality should be regularly submitted to this Ministry including its regional office located at Bhubaneswar and the State Pollution Control Board/ Central Pollution Control Board once in six months.
<b>PPs Submission:</b> Complied The monitoring stations have been established and monitoring job is being done on regular basis. Data on ambient quality are being sent regularly along with EC and consent compliance reports.		Date: 23/05/2025
8	AIR QUALITY MONITORING AND PRESERVATION	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
<b>PPs Submission:</b> Complied Sand, being coarse in nature and having high moisture content, does not get air borne during gathering and transportation. However, dust control measures while transporting of sand will be in place through water tanker, coverage of trucks and optimal loading.		Date: 23/05/2025
9	Noise Monitoring & Prevention	Measures should be taken for control of noise levels below 85 dBA in work Environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.
<b>PPs Submission:</b> Complied Proper PPEs are provided to all the workers.		Date: 23/05/2025
10	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water (Workshop and Waste water from the mine) should 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. Oil and Grease trap should be installed before discharge of Workshop effluents.
<b>PPs Submission:</b> Complied No industrial waste water generation will take place.		Date: 23/05/2025
11	Human Health Environment	Personnel working in dusty area should wear protective respiratory

		devices and they should also be provided with adequate training and information on safety and health aspect.	
<b>PPs Submission:</b> Complied It will be complied with.			Date: 23/05/2025
12	Corporate Environmental Responsibility	A separate Environmental Management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the Head of the Organization.	
<b>PPs Submission:</b> Complied We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.			Date: 23/05/2025
13	Corporate Environmental Responsibility	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this ministry and its regional office located at Bhubaneswar.	
<b>PPs Submission:</b> Complied Sand, being coarse in nature and having high moisture content, does not get air borne during transportation. Sand stored in the sand yards is transferred to underground voids through surface bunkers in a slurry form. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.			Date: 23/05/2025
14	Corporate Environmental Responsibility	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	
<b>PPs Submission:</b> Complied The CTE and CTO of the project have been granted by WBPCB. The permission for lifting of sand from the river bed has also been granted by Chief Mining Officer, Asansol.			Date: 23/05/2025
15	Corporate Environmental Responsibility	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer (s) of the regional office by furnishing the requisite Data/ information/ monitoring reports.	
<b>PPs Submission:</b> Complied It will be complied with.			Date: 23/05/2025
16	Statutory compliance	The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC, its Regional Office Bhubaneswar, CPCB and SPCB.	
<b>PPs Submission:</b> Complied It will be complied with.			Date: 23/05/2025
17	Statutory compliance	A copy of clearance letter will be marked to concerned Panchayat, local NGO, if any, from whom suggestions/ representations has been received while processing the proposal.	
<b>PPs Submission:</b> Complied It has been done.			Date: 23/05/2025

18	Statutory compliance	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office / Tehsildar's Office for 30 days.
<b>PPs Submission:</b> Complied It has been complied with.		Date: 23/05/2025
19	Corporate Environmental Responsibility	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.
<b>PPs Submission:</b> Complied It has been done and copies sent to regional office at Bhubaneshwar.		Date: 23/05/2025
20	Statutory compliance	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests and Climate Change.
<b>PPs Submission:</b> Complied It will be complied with.		Date: 23/05/2025
21	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Bhubaneshwar, Central Ground Water Authority and Regional Director, Central Ground Water Board.
<b>PPs Submission:</b> Complied The ground water table monitoring is being done on regular basis. The water level (below the ground level) and quality analysis has been done and reports are attached as Annexure-I.		Date: 23/05/2025
22	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.
<b>PPs Submission:</b> Complied The ground water table monitoring is being done on regular basis. The water level (below the ground level) and quality analysis has been done and reports are attached as Annexure-I.		Date: 23/05/2025
23	AIR QUALITY MONITORING AND PRESERVATION	The critical parameters such as PM10, PM2.5, NOX, SOX , CO in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored (TDS, DO, PH and Total Suspended Solids (TSS)). The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The

		circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.
<b>PPs Submission:</b> Complied The ambient air quality analysis reports are attached as Annexure I. There is no water discharge due to mining operation as it is sand excavation project only. The compliance report is being uploaded on companys website every time.		Date: 23/05/2025
24	Statutory compliance	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and CPCB.
<b>PPs Submission:</b> Complied The report on surface water quality analysis (upstream and downstream) is being attached as Annexure I.		Date: 23/05/2025
25	AIR QUALITY MONITORING AND PRESERVATION	Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the CPCB. Water sprinkling should be increased at places loading and unloading points and transfer point to reduce fugitive emissions.
<b>PPs Submission:</b> Complied The Ambient Air Quality monitoring is being done as per NAAQS 2009 Notification and reports are attached as Annexure I. Water spraying by tankers is regularly done on the transportation roads.		Date: 23/05/2025
<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'24 – MARCH'25)**

## **PREMSINGHDIH SAND LEASE**

**(CAPACITY: 0.2 MTPA SAND FROM RIVERBED OF GOWAI)**  
**TEHSIL: RAGHUNATHPUR II, DIST: PURULIA, WEST BENGAL**



**TATA STEEL LIMITED, JHARIA DIVISION**  
**P.O.- JAMADOBA, DIST. - DHANBAD,**  
**STATE- JHARKHAND, PIN CODE – 828112.**

**ENVIRONMENTAL CLEARANCE GRANTED VIDE LETTER NO.- J-  
11015/422/2012-IA.II(M) DATED- 05.11.2015 (AMENDED ON 30.11.2015) ISSUED BY  
GOVT. OF INDIA, MINISTRY OF ENVIRONMENT, FOREST & CLIMATE  
CHANGE, NEW DELHI**

**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

S. No.	Condition	Compliance Status
<b>Specific Condition</b>		
(i)	Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of West Bengal and any other Court of Law, if any, as may be applicable to this project.	All the judgements applicable to this project will be strictly followed.
(ii)	This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, applicable for this Mining Project.	It is not applicable for this mining project.
(iii)	No mining activities will be allowed in forest areas, if any, for which the Forest Clearance is not available.	There is no forest area involved.
(iv)	The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, West Bengal and effectively implement all the conditions stipulated therein.	<p>The Consent to Establish has been granted by WBPCB vide letter no. 1055-2N-02/2015(E) dated 17.12.2015.</p> <p>The Consent to Operate (CTO) has been granted by WBPCB vide Consent Letter No:CO118281; Memo No.- 552 –WPBA/Red(ppl) / cont (404)/18; dated-29.12.2020 with validity up to 31.12.2025.</p> <p>The mining has started after the grant of CTO and all the conditions stipulated therein are being effectively implemented.</p>
(v)	Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.	Excavation is being done as per the Sustainable Sand Mining guidelines as stipulated by MoEF&CC.
(vi)	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/ preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine	a. Our central hospital located at Jamadoba, already has an Occupational Health Specialist to cater to the medical checkups/ medical care of the workers. The workers involved in this project will also be provided medical care in our central hospital.



**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

	workers would also be adopted; Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road, etc.	b. A Monitoring Committee has been appointed to monitor the replenishment study, traffic management, levels of production, River Bank erosion, maintenance of Road, etc on regular basis. The committee comprises officials from the Mine Planning, Survey, Environment and CSR Departments. Feedback from the Panchayat officials of nearby villages is also considered.
<b>(vii)</b>	Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/ dumpers carrying the mineral should not be allowed to pass through the villages.	Transportation of sand is done by a dedicated Pucca road starting from the river bed till the colliery sand bunker. The trucks/ dumpers will not pass through the village roads.
<b>(viii)</b>	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	The transportation road is pucca throughout and it will be ensured that the road is not damaged. In case small repairs are required, it will be done by the company.
<b>(ix)</b>	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	All the points mentioned in the action plan have been implemented. They are related to environmental protection measures like water spraying, tree plantation and road repairing activities. Remaining points related to CSR like health care facilities have also been taken up by our CSR wing TSF (Tata Steel Foundation).
<b>(x)</b>	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing center; Washing of all transport vehicle should be done inside the mining lease.	Water sprinkling on the transportation road is being done regularly to minimize the pollution. The vehicles used are being regularly checked and maintained. Only vehicles having valid PUC certificates are allowed to ply. Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded. The washing of trucks is being done in garages/ workshop located away from the riverbed as this is a river-bed sand mining project and washing of trucks near the river may degrade the river water quality.
<b>(xi)</b>	Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the	Permanent pillars have been erected marking the boundary of the mine lease area.

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	ground and 1.2m above the ground to observe its stability.	
(xii)	The Project Proponent shall also take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area. Further, the Project Proponent shall implement the Conservation Plan for the Schedule I species, if any, reported in the Study area. The implementation Report shall be sent regularly to Regional Office of the MOEFCC located at Bhubaneswar.	All precautionary measures are being taken during mining operation to protect the flora and fauna. As per the last study done, there were no endangered species near to the mining lease area.
(xiii)	The illumination and sound at night at project site disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponent must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/ night hours.	There are no floodlights erected due to the project. Noise levels is being kept well within the prescribed limits.
(xiv)	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.	There is no haulage road since it is a river-bed sand excavation project. Only temporary access roads are made on the sand lumps. Further, water spraying activity on transportation roads is being done with the help of water tankers.
(xv)	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The Project Proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the	It is being strictly complied. The transportation will not be done through the village roads. A dedicated 'pucca' road network is available which is being used for the sand transportation activity.

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	Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	
(xvi)	Likewise, Alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/ public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternate arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.	There is no such acquisition required for this project.
(xvii)	CSR activities by Companies including the Mining Establishments have become mandatory up to 2% of their financial Turn-over. Socio Economic Development of the neighborhood Habitats could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/ Workers. The report shall be submitted to the Ministry of Environment and Forest and its Regional Office located at Bhubaneshwar on six monthly basis.	The CSR activities are being done and the 2% mandate is being fulfilled at the company level. The CSR report of our division is being enclosed with this compliance report as <b>Annexure-II</b> .
(xviii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the Project.	Since all the workers are being engaged from the nearby villages, there is no requirement of separate housing for this project.
(xix)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the MOEFCC 5 years in advance of final mine closure for approval.	The Mine Plan along with MCP has been approved in 2014. This is a river-bed sand mining project and the sand gets replenished every year so there is no requirement for any mine closure activity

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		except for the removal of temporary infrastructure or machinery available on the site.
<b>B1</b>	<b>SPECIAL CONDITIONS</b>	
	<b><u>Impact Category: Stakeholder Engagement</u></b>	
(1)	In the case of private land not owned by the lease holder an affidavit should be obtained regarding consent of the concerned land owner(s) for carrying out the mining operation.	Not applicable as no private land is involved in this project.
(2)	Stakeholder awareness and ability to raise concerns and getting it to be addressed.	All stakeholders are given opportunity to raise their concerns with General Manager, Coal on weekly basis (every Monday).
(3)	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	All the points mentioned in the action plan have been implemented. They are related to environmental protection measures like water spraying, tree plantation and road repairing activities. Remaining points related to CSR like health care facilities have also been taken up by our CSR wing TSF.
(4)	Having valid lease and all the permits is very much needed.	The project has valid lease as well as all necessary permits required from the statutory authorities.
(5)	To establish a Monitoring Committee including Local Panchayat, to check on traffic due to transportation and submit an annual report on the same.	A Monitoring Committee has been appointed to monitor the replenishment study, traffic management, levels of production, River Bank erosion, maintenance of Road, etc on regular basis. The committee comprises officials from the Mine Planning, Survey, Environment and CSR Departments. Feedback from the Panchayat officials of nearby villages is also considered.
(6)	The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos.19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 may be strictly followed.	All the directions in the above cases will be strictly followed.
(7)	All the provisions made and restrictions imposed as covered in the	This is not applicable as sand used for stowing is a major mineral.

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	Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.													
	<b>Impact Category: Sustainable Mining Practices</b>													
(8)	District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.	This is a major mineral hence this survey report is not required.												
(9)	The depth of mining in Riverbed shall not exceed one meter or water level whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can go up to 3 meters on defined reaches of the River.	The depth of mining will not exceed 3 meters.												
(10)	No River sand mining be allowed in rainy season.	Sand mining does not take place during rainy season. Mining activity is suspended during the monsoon period.												
(11)	To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity/ production levels shall be decreased/ stopped accordingly till the replenishment is completed.	<p>The annual sand replenishment study has already been completed for the project by a reputed institution, Indian School of Mines Dhanbad. The report was submitted along with the EIA/EMP report to MOEFCC for the grant of EC. The findings are provided here-</p> <p>Replenishment Calculation per Km stretch of Damodar in JCF</p> <table border="1"> <thead> <tr> <th>Sl</th><th>Estimation /Assessment</th><th>Values</th></tr> </thead> <tbody> <tr> <td>i)</td><td>Per km stretch of Damodar the silt load per year</td><td>4,78,260m<sup>3</sup>/km/yr</td></tr> <tr> <td>ii)</td><td>Bulk density of sand</td><td>1.6 T/m<sup>3</sup></td></tr> <tr> <td>iii)</td><td>Tonnage of sedimentation</td><td>7,65,216 T/km/yr</td></tr> </tbody> </table>	Sl	Estimation /Assessment	Values	i)	Per km stretch of Damodar the silt load per year	4,78,260m <sup>3</sup> /km/yr	ii)	Bulk density of sand	1.6 T/m <sup>3</sup>	iii)	Tonnage of sedimentation	7,65,216 T/km/yr
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		per km stretch per year	
		iv) In a 2.6 Km stretch of the Core the sedimentation	≈19.9 Lakh Ton/yr
		v) In South Bank only (ML) = SI No (iv)/2	≈9.95Lakh Tonne
		So therefore, there is potential for safe excavation of around 9.95 LT of riverbed sand, while the capacity of our project is only 2 LT.	
(12)	Ultimate working depth shall be up to 3m from the Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier. In hilly terrain this depth be preferably restricted to one meter.	The depth of mining will not exceed 3 meters and not less than one meter from the water level of the River channel if it is reached earlier.	
(13)	In River flood plain mining a buffer of 3 meters to be left from the River bank for mining.	This is not applicable.	
(14)	In mining from agricultural field a buffer of 3 meters to be left from the adjacent field.	This is not applicable.	
(15)	Mining shall be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.	Sand excavation activity is being done as per these guidelines to avoid ponding effect.	
(16)	To maintain safety and stability of Riverbanks i.e. 3 meters or 10% of the width of the River whichever is more will be left intact as no mining zone.	10% of the width has been left intact as no mining zone.	
(17)	No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.	It will be strictly followed.	
(18)	No blasting shall be resorted to in river mining and without permission at any other place.	No blasting is involved.	
(19)	Depending upon the location, thickness of sand, deposition, agricultural land/river bed, the method of mining may be manual, semi-mechanized or	Semi mechanized method of mining are used for excavation of sand.	

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	mechanized; however, manual method of mining shall be preferred over any other method.	
	<b>Impact Category: Identification and Preparation of Mining Site</b>	
(20)	Mining should be done only in area/ stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub-Divisional Level Committee after site visit.	The District survey report is not applicable for major mineral projects.
(21)	Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.	Pillars have been erected marking the boundary of the mine lease area. Authentication by DGPS survey has also been conducted and the SHAPE file has been submitted through CD along with our letter (Ref. No- JMB/115/233A/2017) dt. 31.01.2017 to Regional Office, MoEFCC, Bhubaneswar. It is also mailed at <a href="mailto:roe.z.bsr-mef@nic.in">roe.z.bsr-mef@nic.in</a> on 31.01.2017.
(22)	The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.	This is not applicable as no top soil generation is involved.
(23)	The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.	All records of quantity of sand mined out and dispatched from the mine are available with our Mine Planning Department. Mode of transport of sand is truck. A copy of challan issued to truck also exists with us in which the registration number and person-in-charge of vehicle are mentioned. These documents are being properly maintained and shall be produced during any inspection.
(24)	For each mining lease site, the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.	It is being strictly followed. The entire mineral being transported is accounted for. All trucks carry valid mining challans issued by the office of the Chief Mining Officer.
(25)	The State/ District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the	Regulation of sand transport from our lease area is being done by Chief Mining Officer, Asansol. Manual permits are being issued as online facility for issuing the permit has not been implemented yet in West Bengal.

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	lease area and the number of trucks moving out with the mineral.	
(26)	There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.	We will effectively comply with all the applicable EC conditions. Monitoring committee inspects the lease area on regular basis.
	<b>Impact Category: Noise Management</b>	
(27)	Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.	Noise generation is expected only during the operation of shovel and dumpers and during transportation. We will ensure that the machinery is kept in good conditions and are regularly maintained so that noise from their engines is minimized. Every care possible is being taken to keep noise level within permissible limit.
(28)	Restricted working hours. Sand mining operation has to be carried out between 6 am to 7 pm.	Our sand excavation activity takes place only during above mentioned hours.
	<b>Impact Category: Air Pollution and Dust Management</b>	
(29)	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly.	Water sprinkling on the transportation road is being done regularly to minimize the pollution load on the environment.
(30)	Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.	The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
(31)	The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.	Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded.
	<b>Impact Category: Management of Visual Impact</b>	
(32)	The mining operations are to be done in a systematic manner so that the operations shall not create a major visual impact on the site.	Mining is being done in a systematic manner. The biodiversity and aesthetic beauty of the area will be maintained always.



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(33)	Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 2500 trees per hectare in area near lease.	It will be ensured that flora is not affected or damaged by the sand mining operations. Tree saplings have been distributed to nearby villagers. Since almost all the area near lease is private land, we undertake plantation activities in consultation with the land-owners.
(34)	No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.	Not applicable as no forest area is involved.
(35)	Protection of turtle and bird habitats shall be ensured.	Not applicable as no such habitat exists near our lease area.
(36)	No felling of tree near quarry is allowed. For mining lease within 10km of the National Park/ Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wildlife (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.	It is not applicable.
(37)	Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.	It is not applicable.
	<b>Impact Category: Management of Instability and Erosion</b>	
(38)	Removal, stacking and utilization of top soil in mining should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.	It is not applicable as no top soil will be generated.
(39)	The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.	It is not applicable.
(40)	Use of oversize material to control erosion and movement of sediments.	It is not applicable.

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(41)	No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.	It will be strictly followed.
(42)	No extraction of stone/ boulder/ sand in landslide prone areas.	There are no landslide prone areas near our lease.
(43)	Controlled clearance of riparian vegetation to be undertaken.	No riparian vegetation is proposed to be disturbed.
<b>Impact Category: Waste Management</b>		
(44)	Site clearance and tidiness is very much needed to have less visual impact of mining.	Housekeeping and tidiness of the area will always be maintained.
(45)	Dumping of waste shall be done in earmarked places as approved in Mining Plan.	No waste will be generated.
(46)	Rubbish burial shall not be done in the Rivers.	No such burial will be done in the river.
<b>Impact Category: Pollution Prevention</b>		
(47)	The EC holder shall take all possible precautions for the protection of environment and control of pollution.	All necessary precautions will be taken as mentioned in earlier points.
(48)	Effluent discharge should be kept to the minimum and it should meet the standards prescribed.	No water for industrial purpose is required for the sand excavation activity. Further there will be no township as all manpower will be from the nearby villages. Hence, no generation of effluent is envisaged.
<b>Impact Category: Protection of Infrastructure</b>		
(49)	Mining shall not be undertaken in a mining lease located in 200-500 meter of bridge, 200 meter upstream and downstream of water supply/ irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the edge of other roads except on special	It is being strictly followed.

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	exemption by the Sub-Divisional level Joint Inspection Committee.	
(50)	For carrying out mining in proximity to any bridge or embankment, appropriate safety zone (not less than 200 meters) should be worked out on case to case basis, taking into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.	It is being strictly followed.
(51)	Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical and archeological importance.	No such danger is posed by our mining lease.
	<b>Impact Category: Enhancement of Road Safety</b>	
(52)	Vehicles used for transportation of sand are to be permitted only with fitness and PUC Certificates.	Only vehicles having valid PUC and fitness certificates can apply.
(53)	Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.	The approach roads are of adequate width and there is no risk of traffic congestion in the area. This has been validated in the traffic density study conducted previously.
(54)	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	The transportation road is pucca throughout and it will be ensured that the road is not damaged. In case small repairs are required, it will be done by the company.
(55)	No stacking allowed on road side along National Highways.	No stacking is being done. The sand is transported directly to the sand yards of our underground mines.
	<b>Impact Category: Closure and Reclamation of Mined Out Area</b>	
(56)	The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.	No land will be affected due to the project.
(57)	Restoration, reclamation and rehabilitation in cluster should be done	This is not applicable as this is a single mine lease and not part of any EC cluster.

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	systematically and jointly by each EC holder in that cluster. This should be appropriately reflected as EC condition in each EC in cluster.	
(58)	Site specific plan with eco-restoration should be in place and implemented.	Tree plantation activities is being done in the area as part of eco-restoration.
	<b>Impact Category: Health and Safety</b>	
(59)	Health and safety of workers should be taken care of.	All the safety procedures are being implemented including safe driving checks and over-speeding checks. Health care to workers are provided at our Hospital.
(60)	Transport of mineral will not be done through villages/ habitations.	It is being complied with. It will not be done through any village or habitation.
(61)	The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.	All the above arrangements will be done at the mining site.
(62)	Project Proponent shall implement the Disaster Management Plan if the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels.	The mine lease area lies in Seismic Zone-III so it is not applicable.
(63)	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers etc. shall be undertaken once in six months and necessary remedial/ preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.	Our central hospital located at Jamadoba, already has an Occupational Health Specialist to cater to the medical checkups/ medical care of the workers. The workers involved in this project will also be provided medical care in our central hospital.
	<b>Impact Category: Monitoring the Impact of Mining and Mineral Conservation</b>	

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<b>(64)</b>	The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.	The information has been provided in earlier points.
<b>(65)</b>	Use of alternate material such as M-sand in place of natural River sand shall be encouraged in order to reduce stress on natural eco-system.	We have previously explored the use of BF Slag and LD Slag as replacement for sand but it was not found suitable for underground backfilling due to operational and environmental issues.
<b>B2:</b>	<b>PROCEDURE FOR MONITORING OF SAND MINING:</b>	
<b>(i)</b>	Project Proponent must ensure that the security features of Transport Permission viz. (a) Printed on Indian Bank Association (IBA) approved Magnetic Ink Character Recognition Code (MICR) paper; (b) Unique Barcode; (c) Unique Quick Response Code (QR); (d) Fugitive Ink Background; (e) Invisible Ink Mark; (f) Void Pantograph; (g) Watermark.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
<b>(ii)</b>	Project proponent must ensure that the CCTV camera, Personal Computer (PC), Internet Connection, Power Back up, access control of mine lease site; and arrangement for weight or approximation of weight of mined out mineral on basis of volume of the trailer of vehicle used at mine lease site are available.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
<b>(iii)</b>	Project Proponent must ensure the Scanning of Transport Permit or Receipt and Uploading on Server.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
<b>(iv)</b>	The State Mines and Geology Department should print the Transport Permits/ Receipt with security features enumerated at Paragraph (i) above and issue them to the mine lease holder through the District Collector. Once these Transport Permits or Receipts are issued, they would be uploaded on the server against that mine lease area. Each receipt should be preferably with	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.

**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

	pre-fixed quantity, so the total quantity gets determined for the receipts issued. When the Transport Permit or Receipt barcode gets scanned and invoice is generated, that particular barcode gets used and its validity time is recorded on the server. So all the details of transporting of mined out material can be captured on the server and the Transport Permit or Receipt cannot be reused.	
(v)	The staff deployed for the purpose of checking of vehicles carrying mined mineral should be in a position to check the validity of Transport permit or Receipt by scanning them using website, Android Application and SMS.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(vi)	In case the Vehicle breakdown, the validity of Transport Permit or Receipt shall be extended by sending SMS by driver in specific format to report breakdown of vehicle. The server will register this information and register the breakdown. The State can also establish a call centre, which can register breakdowns of such vehicles and extend the validity period. The subsequent restart of the vehicle also should be similarly reported to the server/ call centre.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(vii)	The route of vehicle from source to destination shall be tracked through the system using check points, Radio-frequency identification (RFID) Tags and Global Positioning System (GPS) tracking.	GPS tracking is being done for every vehicle used for sand transportation from source to destination.
(viii)	The system shall enable the authorities to develop periodic report on different parameters like daily lifting report, vehicle log/history, lifting against allocation and total lifting. The system can be used to generate auto mails/SMS. This will enable the District Collector/ Magistrate to get all the relevant details and will enable the authority to block the scanning facility	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.

**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

	of any site found to be indulged in irregularity. Whenever any authority intercepts any vehicle transporting illegal sand, it shall get registered on the server and shall be mandatory for the officer to fill in the report on action taken. Every intercepted vehicle should be tracked.	
<b>C:</b>	<b>GENERAL CONDITIONS:</b>	
<b>(i)</b>	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests and Climate Change.	It will be complied with.
<b>(ii)</b>	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	It will be complied with.
<b>(iii)</b>	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	This is not applicable as there will be no drawl of surface water or ground water.
<b>(iv)</b>	Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.	The ground water table monitoring is being done on regular basis. The water level (below the ground level) and quality analysis has been done and reports are attached as <b>Annexure-I</b> .
<b>(v)</b>	Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the CPCB. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	The Ambient Air Quality monitoring is being done as per NAAQS 2009 Notification and reports are attached as <b>Annexure-I</b> . Water spraying by tankers is regularly done on the transportation roads.
<b>(vi)</b>	The upliftment of SC/ ST population, specific programmes have been taken in to consideration specially with respect to education, health care, livelihood generation, infrastructure development & promotion of sports &	CSR activities by TSRDS are taking place in all the villages located nearby to the mine lease. The above points have been taken into consideration by TSRDS.

**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

	culture for SC/ST population and that these will be intensified in future.	
(vii)	Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per Ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	As our lease area is located on the riverbed, tree plantation is taken up in consultation with the village land owners. We have approached the schools and community places to provide space for tree plantation and have planted various forestry and fruit trees during this monsoon.
(viii)	Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	This is not applicable as there is no OB dumps.
(ix)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the CPCB in this regard.	Emissions are envisaged during the movement of trucks from the sand lease till the colliery site. There will be no emissions during sand mining activity. Water spraying will be done on the transport roads to minimize the dust generated during transportation of sand and ultimately maintain the ambient air quality of the area below the CPCB norm.
(x)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and CPCB.	The report on surface water quality analysis (upstream and downstream) is being attached as <b>Annexure-I</b> .



**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

(xi)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest & Climate Change and its Regional Office, Bhubaneswar, Central Ground Water Authority and Regional Director, Central Ground Water Board.	The ground water table monitoring is being done on regular basis. The water level (below the ground level) and quality analysis has been done and reports are attached as <b>Annexure-I</b> .
(xii)	The critical parameters such as PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>x</sub> , SO <sub>x</sub> & CO in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.	The ambient air quality analysis reports are attached as <b>Annexure-I</b> . There is no water discharge due to mining operation as it is sand excavation project only. The compliance report is being uploaded on company's website every time.
(xiii)	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>x</sub> , SO <sub>x</sub> & CO monitoring. Location of the stations should be decided based on the	The monitoring stations have been established and monitoring job is being done on regular basis. Data on ambient quality are being sent regularly along with EC and consent compliance reports.

**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

	meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. Data on ambient air quality should be regularly submitted to this Ministry including its regional office located at Bhubaneswar and the State Pollution Control Board/ Central Pollution Control Board once in six months.	
(xiv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Sand, being coarse in nature and having high moisture content, does not get air borne during gathering & transportation. However, dust control measures while transporting of sand will be in place through water tanker, coverage of trucks and optimal loading.
(xv)	Measures should be taken for control of noise levels below 85 dBA in work Environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Proper PPE's are provided to all the workers.
(xvi)	Industrial waste water (Workshop and Waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of Workshop effluents.	No industrial waste water generation will take place.
(xvii)	Personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspect.	It will be complied with.
(xviii)	A separate Environmental Management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the Head of the Organization.	We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.





**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

<b>(xix)</b>	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this ministry and its regional office located at Bhubaneswar.	Sand, being coarse in nature and having high moisture content, does not get air borne during transportation. Sand stored in the sand yards is transferred to underground voids through surface bunkers in a slurry form. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.
<b>(xx)</b>	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The CTE and CTO of the project have been granted by WBPCB. The permission for lifting of sand from the river bed has also been granted by Chief Mining Officer, Asansol.
<b>(xxi)</b>	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer (s) of the regional office by furnishing the requisite Data/information/ monitoring reports.	It will be complied with.
<b>(xxii)</b>	The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC, its Regional Office Bhubaneswar, CPCB and SPCB.	It is being complied with.
<b>(xxiii)</b>	A copy of clearance letter will be marked to concerned Panchayat, local NGO, if any, from whom suggestions/ representations has been received while processing the proposal.	It has been done.
<b>(xxiv)</b>	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office / Tehsildar's Office for 30 days.	It has been complied with.
<b>(xxv)</b>	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the	It has been done and copies sent to regional office at Bhubaneshwar.





**Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)**

	project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.	
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)





	<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;">ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</p>	<p>Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditirndservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608</p>		
Ref. No.: - ARDS/24-25/AAQ/1		Date: 30/11/2024		
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
<ul style="list-style-type: none"> <li>• Name of the industry</li> <li>• Work Order Ref. NO.:</li> <li>• Date of Sample Collection</li> <li>• Date of Testing</li> <li>• Test Procedure</li> </ul>	<ul style="list-style-type: none"> <li>: TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. – DHANBA D (JHARKHAND)</li> <li>: 4700126557/932 Date:- 29/05/2024</li> <li>: 22/11/2024 To 23/11/2024</li> <li>: 25/11/2024 To 27/11/2024</li> <li>: As per IS-5182</li> </ul>			
<b><u>TEST RESULTS</u></b>				
LOCATION – ICCHAR HIGH SCHOOL				
	Avg. Ambient Temperature	25 <sup>0</sup> C	Avg. Humidity	52%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	73.97	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	43.64	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	18.81	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	27.76	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	17.12	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	19.65	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.79	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				
 <b>Sr. Chemist</b> Aditi R&D Services		 <b>Technical Manager</b> Aditi R&D Services, Sindri		
<b>Statements :</b> <ol style="list-style-type: none"> <li>The test report refers only to the particular item(s) submitted for testing.</li> <li>The test results reported in this report are valid at the time of and under the stated condition of measurement.</li> <li>This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.</li> </ol>				

## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)





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Ref. No.: - ARDS/24-25/ AAQ/2		Date: 30/11/2024		
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
<ul style="list-style-type: none"> <li>• Name of the industry</li> <li>• Work Order Ref. NO.</li> <li>• Date of Sample Collection</li> <li>• Date of Testing</li> <li>• Test Procedure</li> </ul>	<ul style="list-style-type: none"> <li>: TATA STEEL JHARIA DIVISION</li> <li style="margin-left: 20px;">TATA STEEL COLLIERY</li> <li style="margin-left: 20px;">(SAND LEASE AREA, BHOJUDIH)</li> <li style="margin-left: 20px;">DIST. - DHANBAD (JHARKHAND)</li> <li>: 4700126557/932 Date:- 29/05/2024</li> <li>: 22/11/2024 To 23/11/2024</li> <li>: 25/11/2024 To 27/11/2024</li> <li>: As per IS-5182</li> </ul>			
<b><u>TEST RESULTS</u></b>				
LOCATION – LAGLA GRAM PANCHYAT				
	Avg. Ambient Temperature	25°C	Avg. Humidity	52%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	64.28	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	38.44	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	16.75	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	26.74	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	16.86	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	14.38	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.52	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				
 <b>Sr. Chemist</b> Aditi R&D Services			 <b>Technical Manager</b> 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.				



## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)





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Ref. No.: - ARDS/24-25/ AAQ/3		Date: 30/11/2024		
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
<ul style="list-style-type: none"> <li>• Name of the industry</li> <li>• Work Order Ref. NO.</li> <li>• Date of Sample Collection</li> <li>• Date of Testing</li> <li>• Test Procedure</li> </ul>	<ul style="list-style-type: none"> <li>: TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)</li> <li>: 4700126557/932 Date:- 29/05/2024</li> <li>: 22/11/2024 To 23/11/2024</li> <li>: 25/11/2024 To 27/11/2024</li> <li>: As per IS-5182</li> </ul>			
<b><u>TEST RESULTS</u></b>				
<b>LOCATION – SAHARJURI SCHOOL</b>				
	Avg. Ambient Temperature	25 <sup>0</sup> C	Avg. Humidity	52%
SI No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	62.79	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	37.71	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> µg/m <sup>3</sup>	15.48	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> µg/m <sup>3</sup>	26.96	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	18.20	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	14.88	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.62	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				
 <b>Sr. Chemist</b> Aditi R&D Services			 <b>Technical Manager</b> Aditi R&D Services, Sindri	
<b>Statements :</b> <ol style="list-style-type: none"> <li>The test report refers only to the particular item(s) submitted for testing.</li> <li>The test results reported in this report are valid at the time of and under the stated condition of measurement.</li> <li>This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.</li> </ol>				

## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)





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Ref. No.: - ARDS/24-25/ AAQ/4		Date: 30/11/2024		
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
• Name of the industry • Work Order Ref. NO.: • Date of Sample Collection : • Date of Testing • Test Procedure	: TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND) : 4700126557/932 Date:- 29/05/2024 : 22/11/2024 To 23/11/2024 : 25/11/2024 To 27/11/2024 : As per IS-5182			
<b><u>TEST RESULTS</u></b>				
LOCATION – RAILWAY COLONY, BHOJUDIH				
	Avg. Ambient Temperature	25 <sup>0</sup> C	Avg. Humidity	52%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	73.20	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	42.75	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> µg/m <sup>3</sup>	18.58	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> µg/m <sup>3</sup>	28.76	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	20.81	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	16.43	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	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				
 Sr. Chemist Aditi R&D Services			 Technical Manager Aditi R&D Services, Sindri	
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)


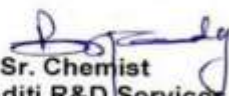


	<b>ADITI R&amp;D SERVICES</b> <b>Testing Laboratory</b> <b>NABL ACCREDITED</b> (A Constituent Board of Quality Council of India) ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified	Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608							
<b>TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING</b>									
Ref. No. & Date <b>ARDS/24-25/ NOISE/1 Date:30/11/2024</b>		NAME AND ADDRESS OF THE CLIENT <b>TATA STEEL JHARIA DIVISION</b> <b>TATA STEEL COLLIERY</b> <b>(SAND LEASE AREA, BHOJUDIH)</b> <b>DIST. - DHANBAD (JHARKHAND)</b>							
Date of Monitoring <b>22/11/2024 To 23/11/2024</b>		Avg. Ambient Temperature (°C) <b>25</b>	Average Humidity (%) <b>52</b>	Weather Condition <b>Clear</b>	Status of the plant <b>Not in operational</b>				
Work Order 4700126557/932 Date:- 29/05/2024									
<b>MONITORING RESULTS</b>									
Sl. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) 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 Limit in dB(A) Leq	
		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Day Time	Night Time
LOCATION								Residential Area	Residential Area
SAND LEASE AREA									
1.	Lagla Gram Panchayat	64.8	50.4	61.94	49.6	43.8	47.6	65.00	55.00
2.	Saharjuri School	61.7	58.2	60.29	54.7	44.5	52.09		
3.	Icchar High School	59.8	52.7	57.56	43.8	35.4	41.38		
4.	Railway Colony, Bhojudih	60.8	50.3	58.16	48.9	40.3	46.45		
 Sr. Chemist Aditi R&D Services				 Technical Manager Aditi R&D Services, Sindri					
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)


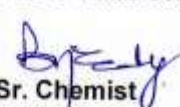


	<b>ADITI R&amp;D SERVICES</b> <b>Testing Laboratory</b> <b>NABL ACCREDITED</b> (A Constituent Board of Quality Council of India) ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified	Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditirndservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608																						
Ref. No.: - ARDS/24-25/MINER./1		Date: 30/11/2024																						
<b><u>TEST REPORT OF MINERALOGICAL COMPOSITION</u></b> <b><u>OF PARTICULATE MATTER</u></b>																								
<table style="width: 100%; border: none;"> <tr> <td style="width: 5%; text-align: center;">•</td> <td style="width: 35%;">Name of the industry</td> <td style="width: 60%;">: TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)</td> </tr> <tr> <td style="text-align: center;">•</td> <td>Work Order Ref. NO.</td> <td>: 4700126557/932 Date:- 29/05/2024</td> </tr> <tr> <td style="text-align: center;">•</td> <td>Date of Sample Collection</td> <td>: 23/11/2024</td> </tr> <tr> <td style="text-align: center;">•</td> <td>Date of Testing</td> <td>: 25/11/2024 To 27/11/2024</td> </tr> </table>			•	Name of the industry	: TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)	•	Work Order Ref. NO.	: 4700126557/932 Date:- 29/05/2024	•	Date of Sample Collection	: 23/11/2024	•	Date of Testing	: 25/11/2024 To 27/11/2024										
•	Name of the industry	: TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)																						
•	Work Order Ref. NO.	: 4700126557/932 Date:- 29/05/2024																						
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<b><u>TEST RESULTS</u></b>																								
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Sl No.</th> <th rowspan="2">Particulars</th> <th colspan="4">Mineralogical Composition (%)</th> </tr> <tr> <th>SiO<sub>2</sub></th> <th>FeO</th> <th>Al<sub>2</sub>O<sub>3</sub></th> <th>CaO</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Lagala Gram Panchayat</td> <td>1.46</td> <td>0.05</td> <td>0.18</td> <td>1.92</td> </tr> <tr> <td>2.</td> <td>Saharjuri School</td> <td>1.37</td> <td>0.04</td> <td>0.16</td> <td>1.84</td> </tr> </tbody> </table>			Sl No.	Particulars	Mineralogical Composition (%)				SiO <sub>2</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO	1.	Lagala Gram Panchayat	1.46	0.05	0.18	1.92	2.	Saharjuri School	1.37	0.04	0.16	1.84
Sl No.	Particulars	Mineralogical Composition (%)																						
		SiO <sub>2</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO																			
1.	Lagala Gram Panchayat	1.46	0.05	0.18	1.92																			
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 Sr. Chemist Aditi R&D Services																								
 Technical Manager Aditi R&D Services, Sindri																								
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)


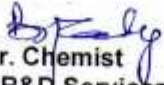


	<h2 style="margin: 0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin: 0;">Testing Laboratory</h3> <p style="margin: 0;"><b>NABL ACCREDITED</b></p> <p style="margin: 0;">(A Constituent Board of Quality Council of India)</p> <p style="margin: 0;"><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b></p>	<p>Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditindservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608</p>	
<p>Ref. No.: - ARDS/24-25/SW/1</p>		<p>Date: 30/11/2024</p>	
<h3><u>TEST REPORT OF SURFACE WATER</u></h3>			
<ul style="list-style-type: none"> <li>• Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) 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. Gowai River (Up Stream)</li> <li>2. Gowai River (Dn. Stream)</li> <li>3. Izri River (Up Stream)</li> <li>4. Izri River (Dn. Stream)</li> </ul> </li> <li>• Date of Sample Collection : 23/11/2024</li> <li>• Date of Testing : 25/11/2024 To 29/11/2024</li> <li>• Test : pH, TDS, Turbidity, DO, BOD, C I, F, SO<sub>4</sub></li> </ul>			
<h3><u>TEST RESULT</u></h3>			
SI. No.	PARAMETERS OF TEST	VALUE	Test Method
		<div style="display: flex; justify-content: space-around;"> <div>Gowai River (Up Stream)</div> <div>Gowai River (Dn. Stream)</div> <div>Izri River (Up Stream)</div> <div>Izri River (Dn. Stream)</div> </div>	
1.	pH	8.0      7.9      7.8      7.9	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	295      206      300      304	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1.6      1.5      2.6      3.6	IS-3025 (P-10): 1984
4.	Dissolved Oxygen, mg/l	5.1      5.3      5.4      4.6	IS-3025 (P-38): 1989
5.	Bio chemical Oxygen Demand, mg/l	1.2      1.9      0.8      2.0	IS-3025 (P-44): 1994
6.	Chloride as Cl, mg/l	21.33      325      25.21      23.27	IS-3025 (P-32): 1988
7.	Fluoride as F, mg/l	0.08      0.06      0.04      0.05	IS-3025 (P-60): 2008
8.	Sulphate as SO <sub>4</sub> , mg/l	32.5      29.7      39.5      38.5	IS-3025 (P-24): 1986
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">   <b>Sr. Chemist</b>              Aditi R&amp;D Services           </div> <div style="text-align: center;">  </div> <div style="text-align: center;">   <b>Technical Manager</b>              Aditi R&amp;D Services, Sindri           </div> </div>			
<p>Statements :</p> <ol style="list-style-type: none"> <li>The test report refers only to the particular item(s) submitted for testing.</li> <li>The test results reported in this report are valid at the time of and under the stated condition of measurement.</li> <li>This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.</li> </ol>			

## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)


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Ref. No.: - ARDS/24-25/AAQ/1		Date: 23/02/2025		
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
<ul style="list-style-type: none"> <li>• Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. – DHANBA D (JHARKHAND)</li> <li>• Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 17/02/2025 To 18/02/2025</li> <li>• Date of Testing : 19/02/2025 To 22/02/2025</li> <li>• Test Procedure : As per IS-5182</li> </ul>				
<b><u>TEST RESULTS</u></b>				
LOCATION – ICCHAR HIGH SCHOOL				
	Avg. Ambient Temperature	30°C	Avg. Humidity	21%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	70.27	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	41.46	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	17.87	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	26.37	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>	18.67	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.75	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				
 <b>Sr. Chemist</b> Aditi R&D Services		 <b>Technical Manager</b> 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.				



## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

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Ref. No.: - ARDS/24-25/ AAQ/2		Date: 23/02/2025		
<b><u>TEST REPORT OF AMBIENT AIR QUALITY</u></b>				
<ul style="list-style-type: none"> <li>• Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 17/02/2025 To 18/02/2025</li> <li>• Date of Testing : 19/02/2025 To 22/02/2025</li> <li>• Test Procedure : As per IS-5182</li> </ul>				
<b><u>TEST RESULTS</u></b>				
LOCATION – LAGLA GRAM PANCHYAT				
	Avg. Ambient Temperature	30°C	Avg. Humidity	212%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	61.07	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	36.52	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	15.91	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	25.40	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	16.02	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>	0.49	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				
 <b>Sr. Chemist</b> Aditi R&D Services			 <b>Technical Manager</b> Aditi R&D Services, Sindri	
<b>Statements :</b> <ol style="list-style-type: none"> <li>The test report refers only to the particular item(s) submitted for testing.</li> <li>The test results reported in this report are valid at the time of and under the stated condition of measurement.</li> <li>This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.</li> </ol>				

## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

	<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) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditirndservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608		
Ref. No.: - ARDS/24-25/ AAQ/3		Date: 23/02/2025		
<h3 style="margin: 0;">TEST REPORT OF AMBIENT AIR QUALITY</h3>				
<ul style="list-style-type: none"> <li>• Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 17/02/2025 To 18/02/2025</li> <li>• Date of Testing : 19/02/2025 To 22/02/2025</li> <li>• Test Procedure : As per IS-5182</li> </ul>				
<h4 style="margin: 0;">TEST RESULTS</h4>				
<b>LOCATION – SAHARJURI SCHOOL</b>				
	Avg. Ambient Temperature	30°C	Avg. Humidity	21%
SI No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	59.65	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	35.82	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	14.71	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	25.61	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	17.29	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	14.14	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				
 <b>Sr. Chemist</b> Aditi R&D Services			 <b>Technical Manager</b> Aditi R&D Services, Sindri	
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

**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,  
P.O. - Domgarh, Dist. - Dhanbad  
Jharkhand - 828107  
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Website: aditirdservices.com  
Phone: 0326-2952377 (O),  
Fax: 0326-2952377  
Mobile: 09471358482, 09431512608

Ref. No.: - ARDS/24-25/ AAQ/4

Date: 23/02/2025

**TEST REPORT OF AMBIENT AIR QUALITY**

- Name of the industry : TATA STEEL JHARIA DIVISION  
TATA STEEL COLLIERY  
(SAND LEASE AREA, BHOJUDIH)  
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700126557/932 Date:- 29/05/2024
- Date of Sample Collection : 17/02/2025 To 18/02/2025
- Date of Testing : 19/02/2025 To 22/02/2025
- Test Procedure : As per IS-5182

**TEST RESULTS****LOCATION – RAILWAY COLONY , BHOJUDIH**

	Avg. Ambient Temperature	30°C	Avg. Humidity	21%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	69.54	100 µg/m <sup>3</sup>	
2.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	40.61	60 µg/m <sup>3</sup>	
3.	SO <sub>2</sub> , µg/m <sup>3</sup>	17.65	80 µg/m <sup>3</sup>	
4.	NO <sub>2</sub> , µg/m <sup>3</sup>	27.32	80 µg/m <sup>3</sup>	
5.	Ozone, µg/m <sup>3</sup>	19.77	180 µg/m <sup>3</sup>	
6.	NH <sub>3</sub> , µg/m <sup>3</sup>	15.61	400 µg/m <sup>3</sup>	
7.	CO, mg/m <sup>3</sup>	0.74	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

*[Signature]*  
Sr. Chemist  
Aditi R&D Services






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

**Statements :**





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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)


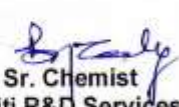


	<h2 style="margin: 0;">ADITI R&amp;D SERVICES</h2> <h3 style="margin: 0;">Testing Laboratory</h3> <p style="margin: 0;"><b>NABL ACCREDITED</b></p> <p style="margin: 0;">(A Constituent Board of Quality Council of India)</p> <p style="margin: 0;"><b>ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified</b></p>	Plot No. - I-B-17 (P) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608							
<b>TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING</b>									
Ref. No. & Date <b>ARDS/24-25/ NOISE/1 Date:19/02/2025</b>	NAME AND ADDRESS OF THE CLIENT <b>TATA STEEL JHARIA DIVISION</b>								
Date of Monitoring	<b>TATA STEEL COLLIERY</b> <b>(SAND LEASE AREA, BHOJUDIH)</b> <b>DIST. - DHANBAD (JHARKHAND)</b>								
17/02/2025 To 18/02/2025	Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant					
Work Order 4700126557/932 Date:- 29/05/2024	30	21	Clear	Not in operational					
<b>MONITORING RESULTS</b>									
Sl. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) 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 Limit in dB(A) Leq	
LOCATION		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Day Time	Night Time
SAND LEASE AREA								Residential Area	Residential Area
1.	Lagla Gram Panchayat	61.56	47.88	58.73	47.12	41.61	45.26	65.00	55.00
2.	Saharjuri School	58.61	55.29	57.26	46.50	33.63	43.71		
3.	Ichhar High School	56.81	47.78	54.31	41.61	38.28	40.26		
4.	Railway Colony, Bhojudih	58.71	51.96	56.53	51.96	42.27	49.39		
 <b>Sr. Chemist</b> Aditi R&D Services					 <b>Technical Manager</b> Aditi R&D Services, Sindri				
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

	<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) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdsservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608																						
Ref. No.: - ARDS/24-25/MINER./1		Date: 21/02/2025																						
<h3 style="margin: 0;">TEST REPORT OF MINERALOGICAL COMPOSITION</h3> <h4 style="margin: 0;">OF PARTICULATE MATTER</h4>																								
<ul style="list-style-type: none"> <li>• Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Date of Sample Collection : 18/02/2025</li> <li>• Date of Testing : 19/02/2025 To 20/02/2025</li> </ul>																								
<h4 style="margin: 0;">TEST RESULTS</h4>																								
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Sl No.</th><th rowspan="2">Particulars</th><th colspan="4">Mineralogical Composition (%)</th></tr> <tr> <th>SiO<sub>2</sub></th><th>FeO</th><th>Al<sub>2</sub>O<sub>3</sub></th><th>CaO</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Icchar High School</td><td>1.38</td><td>0.095</td><td>0.17</td><td>1.82</td></tr> <tr> <td>2.</td><td>Railway Colony, Bhojudih</td><td>1.30</td><td>0.093</td><td>0.15</td><td>1.75</td></tr> </tbody> </table>			Sl No.	Particulars	Mineralogical Composition (%)				SiO <sub>2</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO	1.	Icchar High School	1.38	0.095	0.17	1.82	2.	Railway Colony, Bhojudih	1.30	0.093	0.15	1.75
Sl No.	Particulars	Mineralogical Composition (%)																						
		SiO <sub>2</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO																			
1.	Icchar High School	1.38	0.095	0.17	1.82																			
2.	Railway Colony, Bhojudih	1.30	0.093	0.15	1.75																			
 <b>Sr. Chemist</b> Aditi R&D Services		 <b>Technical Manager</b> Aditi R&D Services, Sindri																						
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## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

	<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) Sindri, Industrial Area, P.O. - Domgarh, Dist. - Dhanbad Jharkhand - 828107 Email ID: sindriaditi@gmail.com Website: aditimdservices.com Phone: 0326-2952377 (O), Fax: 0326-2952377 Mobile: 09471358492, 09431512608</p>					
Ref. No.: - ARDS/24-25/SW/1		Date: 25/02/2025					
<b>TEST REPORT OF SURFACE WATER</b>							
<ul style="list-style-type: none"> <li>• Name of the industry : TATA STEEL JHARIA DIVISION TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)</li> <li>• Work Order Ref. NO. : 4700126557/932 Date:- 29/05/2024</li> <li>• Sample Code : 1. Gowai River (Up Stream) 2. Gowai River (Dn. Stream) 3. Izri River (Up Stream) 4. Izri River (Dn. Stream)</li> <li>• Date of Sample Collection : 17/02/2025</li> <li>• Date of Testing : 19/02/2025 To 24/02/2025</li> <li>• Test : pH, TDS, Turbidity, DO, BOD, C I, F, SO<sub>4</sub></li> </ul>							
<b>TEST RESULT</b>							
Sl. No.	PARAMETERS OF TEST	VALUE	Limit as per IS 2296 Class - C	Test Method			
		Gowai River (Up Stream)	Gowai River (Dn. Stream)	Izri River (Up Stream)	Izri River (Dn. Stream)		
1.	pH	7.6	7.8	7.6	7.5	6.5 - 8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	322	312	395	402	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	1	1	1	1	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	5.2	5.2	4.9	4.8	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.4	1.8	1.8	1.9	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	60.1	50.4	83.3	81.4	600 (Max.)	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.3	0.3	0.2	0.2	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO <sub>4</sub> , mg/l	26.7	29.5	32.7	29.5	400	IS-3025 (P-24):1986
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">   <b>Sr. Chemist</b>  Aditi R&amp;D Services </div> <div style="text-align: center;">  </div> <div style="text-align: center;">   <b>Technical Manager</b>  Aditi R&amp;D Services, Sindri </div> </div>							
<b>Statements :</b> <ol style="list-style-type: none"> <li>The test report refers only to the particular item(s) submitted for testing.</li> <li>The test results reported in this report are valid at the time of and under the stated condition of measurement.</li> <li>This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.</li> </ol>							

**Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)****Ambient Air Quality Analysis Report****Period-** October'24 to December'24

Name of Industry : Premsinghdih Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition		
	October'24	November'24	December'24
Icchar High School, Kamargora, Icchar, Purulia	28.10.2024/ Cloudy	19.11.2024/ Clear	12.12.2024/ Clear
Near Kali Mandir, Railway Colony, Bhojudih	28.10.2024/ Cloudy	19.11.2024/ Clear	12.12.2024/ Clear
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	29.10.2024/ Clear	20.11.2024/ Clear	13.12.2024/ Clear
Santaldih Thermal Power Station, Santaldih	29.10.2024/ Clear	20.11.2024/ Clear	13.12.2024/ Clear

Location	Latitude/ Longitude	Date	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
			PM <sub>10</sub> Level : 24 Hourly Limit- 100µg/m <sup>3</sup>	PM <sub>2.5</sub> Level : 24 Hourly Limit- 60µg/m <sup>3</sup>	SO <sub>2</sub> Level: 24 Hourly Limit-80µg/m <sup>3</sup>	NO <sub>2</sub> Level: 24 Hourly Limit-80µg/m <sup>3</sup>
Icchar High School, Kamargora, Icchar, Purulia	23°37'21.6"N 86°29'25.1"E	28.10.2024	68.5	38.4	17.6	23.6
		19.11.2024	69.6	39.7	16.5	21.4
		12.12.2024	64.8	37.3	15.9	19.2
Near Kali Mandir, Railway Colony, Bhojudih	23°38'20.7"N 86°26'46.3"E	28.10.2024	67.2	38.6	17.4	22.5
		19.11.2024	76.8	42.5	16.3	21.3
		12.12.2024	67.5	33.8	15.7	19.8
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	23°39'00.9"N 86°23'44.4"E	29.10.2024	66.7	34.5	17.9	21.2
		20.11.2024	68.6	35.6	16.5	19.7
		13.12.2024	64.2	33.2	17.4	18.6
Santaldih Thermal Power Station, Santaldih	23°36'01.5"N 86°28'20.6"E	29.10.2024	73.8	39.8	18.4	19.5
		20.11.2024	74.6	46.3	17.8	22.3
		13.12.2024	66.5	34.5	18.2	17.8
Minimum			64.2	33.2	15.7	18.6
Maximum			76.8	46.3	18.4	23.6
Average			69.07	37.85	17.12	20.58


**Area Manager (Environment)**

**Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)****Ambient Air Quality Analysis Report****Period-** January'25 to March'25

Name of Industry : Premsinghdih Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition		
	January'25	February'25	March'25
Icchar High School, Kamargora, Icchar, Purulia	29.01.2025/ Clear	24.02.2025/ Clear	10.03.2025/ Clear
Near Kali Mandir, Railway Colony, Bhojudih	29.01.2025/ Clear	24.02.2025/ Clear	10.03.2025/ Clear
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	30.01.2025/ Clear	25.02.2025/ Clear	11.03.2025/ Clear
Santaldih Thermal Power Station, Santaldih	30.01.2025/ Clear	25.02.2025/ Clear	11.03.2025/ Clear

Location	Latitude/ Longitude	Date	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
			PM <sub>10</sub> Level : 24 Hourly Limit- 100µg/m <sup>3</sup>	PM <sub>2.5</sub> Level : 24 Hourly Limit- 60µg/m <sup>3</sup>	SO <sub>2</sub> Level: 24 Hourly Limit-80µg/m <sup>3</sup>	NO <sub>2</sub> Level: 24 Hourly Limit-80µg/m <sup>3</sup>
Icchar High School, Kamargora, Icchar, Purulia	23°37'21.6"N 86°29'25.1"E	29.01.2025	65.6	35.7	16.7	21.6
		24.02.2025	67.4	36.3	15.5	20.2
		10.03.2025	63.8	33.5	17.2	19.7
Near Kali Mandir, Railway Colony, Bhojudih	23°38'20.7"N 86°26'46.3"E	29.01.2025	67.9	37.4	15.4	21.5
		24.02.2025	72.3	39.5	17.3	19.3
		10.03.2025	67.6	32.7	18.7	18.7
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	23°39'00.9"N 86°23'44.4"E	30.01.2025	65.5	33.5	17.9	17.2
		25.02.2025	67.3	34.3	15.5	16.7
		11.03.2025	63.2	32.9	16.4	18.5
Santaldih Thermal Power Station, Santaldih	23°36'01.5"N 86°28'20.6"E	30.01.2025	72.8	35.8	18.4	19.5
		25.02.2025	69.6	41.2	17.8	17.3
		11.03.2025	64.5	33.7	15.2	18.4
Minimum			63.2	32.7	15.2	16.7
Maximum			72.8	41.2	18.7	21.6
Average			67.29	35.54	16.83	19.05


**Area Manager (Environment)**



## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

## Ground Water Quality Analysis

Ground water level fluctuation in and around Core & Buffer zone area of sand mining lease  
Post- Monsoon Season- November'24

S.No	Date	Location	Time	Sample Parameter		
				Depth in meter (m)	pH	Electrical Conductivity, $\mu\text{S/m}$
1	20.11.2024	Premsinghdih	10:25AM	2.12	7.2	605
2	20.11.2024	Lagla	11:40AM	2.09	7.3	485
3	20.11.2024	Alakdih	11:00AM	1.45	7.2	518
4	20.11.2024	Joradih	12:45 PM	2.12	7.1	560
5	20.11.2024	SEB Quarters	11:50 AM	2.12	7.2	643
6	20.11.2024	Kargali	02:45PM	2.18	7.3	475
7	20.11.2024	Kumargora	01:20PM	1.35	7.2	575
8	20.11.2024	Bhojudih	01:30PM	1.30	7.1	553
9	20.11.2024	Mahal	12:18PM	1.42	7.2	512
10	20.11.2024	Sudamdih	02:15 PM	1.58	7.1	587

## Winter Season- January'25

S.No.	Date	Location	Time	Sample Parameter		
				Depth in meter (m)	pH	Electrical Conductivity, $\mu\text{S/m}$
1	30.01.2025	Premsinghdih	10:15AM	2.55	7.3	607
2	30.01.2025	Lagla	11:42AM	2.45	7.2	525
3	30.01.2025	Alakdih	10:58AM	2.21	7.1	535
4	30.01.2025	Joradih	01:50PM	2.58	7.2	568
5	30.01.2025	SEB Quarters	11:22AM	2.62	7.1	642
6	30.01.2025	Kargali	01:55PM	2.59	7.2	510
7	30.01.2025	Kumargora	11:40PM	1.85	7.2	609
8	30.01.2025	Bhojudih	12:58PM	1.69	7.1	612
9	30.01.2025	Mahal	12:18PM	1.92	7.2	532
10	30.01.2025	Sudamdih	12:12PM	2.09	7.1	578



Area Manager (Environment)

## Ambient Air Quality and Ground Water Quality Report (Period – October'24 to March'25)

## Surface Water Quality Analysis

S.No.	Location	Sampling Date	Sampling Time	Temp	pH	TSS	BOD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	30 mg/l	10 mg/l
1.	River Gowai Up Stream	11.03.2025	10:30AM	28.4	7.7	25	2.2	0.6
2.	River Damodar Down Stream	11.03.2025	10:50AM	29.2	7.6	24	2.1	0.7
3.	Lagla (Pond)	11.03.2025	01:35 PM	27.5	7.4	22	2.3	0.3
4.	Alakhdihi(Pond)	11.03.2025	01:46 PM	28.3	7.5	23	2.7	0.4
5.	Joradihi (Pond)	11.03.2025	11:55 AM	25.7	7.4	24	2.5	0.3
6.	SEB Quarters (Pond)	11.03.2025	11:20 AM	29.4	7.6	22	2.4	0.2
7.	Kargali (Pond)	11.03.2025	12:40AM	28.5	7.5	23	2.5	0.1
8.	Kumargora (Pond)	11.03.2025	01:00 PM	27.3	7.4	21	2.6	0.3
9.	Bhojudih (Pond)	11.03.2025	12:35 PM	28.2	7.5	23	2.3	0.2



Area Manager (Environment)



ANNEXURE-II

# ANNUAL PROGRESS REPORT FY 24-25

Tata Steel Foundation Jharia Division

## **POSHAN**

The POSHAN programme, implemented by Tata Steel Foundation (We) Jamadoba in the Baghmara block. During the progress the programme has emerged as a comprehensive initiative aimed at addressing malnutrition and raising nutritional awareness. The programme targeted key vulnerable groups, including children, pregnant women, lactating mothers, and adolescents, and achieved notable success through a series of focused interventions and community-driven efforts.

Throughout the period, the programme reached 7058 children, identifying 3890 as malnourished of these, 1585 exhibited Moderate Acute Malnutrition (MAM), and 720 were classified as Severe Acute Malnutrition (SAM). Through intensive efforts over 45 days, 1389 children exhibited significant weight gain, with 919 recovering from MAM and 470 from SAM. To support more critical cases, WE facilitated and mobilized 10 SAM children to a Nutritional Rehabilitation Centre (NRC) for advanced care.

Awareness sessions played a pivotal role in the programme's outreach, engaging 4,347 pregnant and lactating women and 4679 adolescents across the Baghmara Block. The sessions emphasized the importance of nutrition and created a foundation for sustained behavioural change. Anaemia screening, another cornerstone of the initiative, tested 2,905 adolescents across various Panchayats, uncovering a staggering 2,823 cases of anaemia. This included 1,077 with mild anaemia, 1,584 with moderate anemia, and 162 with severe anaemia. Among pregnant women, screenings revealed 125 cases of anaemia, categorized into 53 mild, 65 moderate, and seven severe cases, highlighting the critical need for continued intervention. Among the other reproductive age group, it has revealed that 3915 anaemic cases out of total testing of 3995 beneficiaries, among which 292 severe, 2181 moderate, 1442 mild anaemia found. Poshan team has followed up these anaemia cases, it shows 2334 adolescents, 103 pregnant mothers, 3025 lactating mothers with significant Hb level improvement.

The programme also included 39 quiz competitions across the block, involving 932 lactating mothers and adolescents to assess their understanding of nutritional concepts delivered in previous sessions. Additionally, a Sahiya orientation was conducted at the Community Health Centre (CHC) in Baghmara, with 153 community health workers participating to enhance their knowledge about the POSHAN project's objectives and accomplishments.

Further training initiatives were organized, including two Poshan Sakhi training sessions in Lohipiti and Muraidih Panchayats and other places, where 162 adolescent girls and women were trained on the principles of nutrition. Poshan Pakwada events were conducted at several locations, reaching 63 children and 634 pregnant and lactating women, while seven Annaprasan ceremonies emphasized the importance of exclusive and supplementary breastfeeding. Moreover, the development of 1766 nutrition gardens across the block provided additional nutritional support to pregnant and lactating women, benefiting 9734 individuals.

The POSHAN programme's impact has been significant, fostering early detection and intervention for malnutrition and anemia and improving health outcomes for adolescents, pregnant women, and young children. Collaborative efforts with government officials and community members were instrumental in the programme's success, highlighting the value of teamwork and local engagement in achieving sustainable health outcomes.

We have organized a Sahiya orientation training at CHC Baghmara, where 153 Sahiyas participated, discussed about exclusive breast feeding, supplementary diet, balance diet, malnutrition, and Poshan project.



We have also organized a Sevika orientation training at at Dhawachita and Nagrikala South Panchayat Bhawan, where 90 Sevikas participated, discussed about exclusive breast feeding, supplementary diet, balance diet, malnutrition, and Poshan project.

We Jamadoba Unit acknowledges the invaluable contributions of government officials, community stakeholders, and participants whose support was pivotal in the programme's success. The POSHAN programme stands as a testament to the power of collective action in addressing critical public health challenges and fostering a healthier, more informed community.

### **Non- communicable disease (NCD) & Vector- borne disease (VBD) Programme:**

The NCD and VBD programme, implemented by Tata Steel Foundation (TSF) in the Baghmara Block during the period represents a significant step toward improving public health through early detection, treatment, and community awareness. The programme primarily targeted the population aged 30 and above for non-communicable diseases (NCDs) and addressed vector-borne diseases (VBDs) across various groups.

During the reporting period (FY24-25), 37127 individuals aged 30 and above were screened for NCDs. Among these, 3248 cases of hypertension and 2087 cases of diabetes mellitus were identified. WE facilitated the linkage of 1375 hypertensive patients and 798 diabetetic individuals for regular medication and treatment, ensuring better health outcomes. Additionally, the programme trained 20200 eligible women to perform self-breast examinations, empowering them with the knowledge to detect early signs of breast cancer.

The training component of the programme was extensive, with 422 healthcare workers, including Community Health Officers (CHOs), Sahiyas, Block Technical Teams (BTTs), and Sahiya Sathis, being sensitized and equipped to implement NCD and VBD interventions. A noteworthy event was the breast cancer awareness session held on July 23, 2024, at the JRD Auditorium Jamadoba , where 43 government health workers, 52 women leaders from DISHA project, and 20 youth participants were educated on the importance of early detection and prevention of breast cancer.

In the domain of vector-borne diseases, we screened 86991 individuals across various groups, ensuring timely referral of suspected cases to the nearest Community Health Centers (CHCs) for further diagnosis and treatment. The foundation also facilitated the registration of 1650 individuals on the NCD portal to streamline their access to necessary healthcare services. In addition, 495 new Ayushman Bharat cards were created to reduce out-of-pocket healthcare expenditure for the community.

To combat vector-borne diseases effectively, we undertook larval control measures by covering 37 Gram Panchayats with bio-larvicide sprays. The foundation also focused on community empowerment by conducting five peer leader training sessions, fostering awareness, and encouraging community ownership to mitigate the spread of diseases.

The NCD and VBD programme at Baghmara Block has showcased our's commitment to strengthening healthcare systems and enhancing community awareness. By combining early detection, systematic treatment linkages, and proactive community engagement, the initiative has significantly contributed to the reduction of disease burden in the region. We extends its gratitude to government health officials, community members, and all participants for their collaboration in achieving the programme's objectives. This initiative underscores the importance of collective action in building a healthier, more resilient community.

### **RISHTA (REGIONAL INITIATIVE FOR SAFE SEXUAL HEALTH BY TODAY'S ADOLESCENTS)**

RISHTA, is a project focused on Adolescents' Reproductive and Sexual Health. The primary aim of the project is to improve the sexual and reproductive health and well-being of adolescents in Dhanbad and Baghmara Block to prevent child marriage, delay pregnancies among adolescent couples, and improve overall health status. Over a five-year plan, Project RISHTA seeks to reach the entire panchayat of these blocks in block saturation mode.

## **1. School-Level Engagement**

### **1.1 Training on ARSH Module**

The RISHTA conducted ARSH sessions to enhance adolescents' knowledge and awareness with 13 ARSH modules. Initially, a pre-test was conducted with participants to assess their baseline understanding of reproductive and sexual health and life skills communication. After completing these modules, post-tests were administered to 14899 adolescents, showing improvement in their knowledge and awareness from baseline. This initiative successfully empowered adolescents to make informed decisions about their health and well-being.

### **1.2 School Competition**

This year, a series of engaging school-level competitions were successfully organized across various schools and villages, fostering creativity, knowledge, and awareness among students.

- **Drawing Competitions:** Held in multiple locations, including Dhokhra, Malkera, Tilatand, Bherakhudar, Digi Public School, Petiya, and Baludih, these events focused on themes such as *"Importance of a Green Environment"* and *"From Clicks to Progress: Youth Digital Pathways for Sustainable Development."* Over 260 students participated, expressing their artistic talents while reinforcing key environmental and digital literacy messages.
- **Quiz Competitions:** Conducted in schools such as High School Putki, UMS Radha Nagar, High School Jamutand, Middle School Burragarh, Gandhi Smarak High School Mahuda, Digital Public School Moonidih, and more, these competitions engaged over 669 students. Covering topics like health, nutrition, informed decision-making, and general knowledge, they encouraged academic excellence and critical thinking. These initiatives, aligned with the RISHTA program, not only provided a platform for students to showcase their talents but also promoted awareness about environmental conservation, sustainable development, and adolescent health.

## **2. Community-Level Engagement**

### **2.1 Kishore Dampati Swasth Sahamara Training**

During this reporting period (FY24-25), Kishore Dampati Swasth Sahamara training sessions were conducted successfully at Bagula, Dhokra, Rajganj, Dumra Panchayat, Jarma, and Maheshpur-2, engaging 10, 11, 12, 12, 14, and 15 adolescent couples, respectively, along with their mothers-in-law. These sessions were designed to emphasize the importance of delaying pregnancy until after the age of 20, highlighting the benefits of strong family relationships and healthier life choices. Participants were encouraged to improve communication within their families, ensuring mutual understanding and support. Practical guidance was provided to help couples make informed decisions about their health and well-being, especially regarding maternal and child health. This initiative aimed to address the social and health challenges faced by adolescent couples, equipping them with the knowledge and tools to build healthier futures. By fostering awareness and encouraging responsible decision-making, the training supported the RISHTA program's goals of enhancing adolescent health and well-being. The active participation of couples and their families underscored the community's commitment to creating a supportive environment for young families, making this initiative a significant step forward in promoting long-term health and empowerment. Discussions and role-playing activities, participants were guided on how to

navigate family pressures, avoid early pregnancies, and ensure healthier outcomes for both mothers and children.

## **2.2 Sathiya Training**

During the reporting period (FY24-25), Sathiya training sessions were successfully conducted across various panchayats in the Baghmara and Dhanbad blocks, covering 106 villages with 367 participants in Baghmara and 11 villages with 81 participants in Dhanbad. This initiative employs a peer-led approach, where trained adolescent leaders, known as "Sathiyas," guide their peers, particularly out-of-school adolescents, through weekly sessions held at Anganwadi centers. The sessions focused on key topics such as nutrition and Adolescent Sexual and Reproductive Health and Rights (ASRHR), addressing concerns and offering counseling. Auxiliary Nurse Midwives (ANMs) supported the sessions when needed to ensure accurate guidance on complex issues. The training enhanced the leadership capabilities of Sathiyas, empowering them to foster informed decision-making among their peers and actively contribute to improving adolescent health and well-being in their communities. Regular monthly meetings were conducted to provide ongoing support and coordination, ensuring the effectiveness of the program. This initiative has significantly strengthened the RISHTA program's outreach, creating a positive and sustainable impact on adolescent health and rights. Through their leadership and advocacy, Sathiyas have become instrumental in driving community change and promoting a healthier future for adolescents.

## **2.3 Community Awareness**

During this reporting period (FY24-25) the RISHTA program spearheaded impactful community awareness initiatives to address the pressing issue of early marriage in the villages of Dhanbad and Baghmara Blocks. Through these efforts, 10554 stakeholders were sensitized about the detrimental effects of child marriages conducted before the legal age. The awareness meetings focused on educating participants about the physical, emotional, and social consequences of early marriage, emphasizing its adverse impact on adolescents' health, education, and future prospects.

To further amplify the message, rallies were organized in Dharmabandh, Menjura, Koridih, Kanchapur, Maheshpur, Nagrikala North, Dumra Das Tola, Jamutand, Dhokra, and Nagda. These rallies engaged a broader audience, employing community interactions and visual aids to communicate the message effectively. The events created a platform for open dialogue, enabling deeper connections between the RISHTA program and local communities.

By addressing the harmful consequences of early marriage and encouraging informed decision-making, these initiatives played a significant role in empowering adolescents and their families. The program reinforced its dedication to safeguarding adolescent rights and fostering an environment that supports healthier, more informed, and thriving communities.

## **2.4 ASHA Orientation ASHA**

During the reporting period (FY24-25), ASHA orientation sessions on adolescent reproductive and sexual health (ARSH) were held in Nagrikala North, Malkera, Rajganj, Barora, Kharkhari, Samshikhra, Siyalgudri, and Damaodarpur 16, 25, 41, 25, 22,15,15 and 15 participants, respectively. The sessions focused on enhancing the knowledge and skills of ASHA workers in key ARSH areas, enabling them to effectively support and guide adolescents within their communities. Topics covered included reproductive health, menstrual hygiene, and effective counseling techniques for adolescents. These orientations strengthened the ASHA workers' capacity to promote healthy behaviors and contribute to the well-being of young individuals. By equipping them with essential knowledge and tools, the sessions reinforced their vital role

in fostering a healthier and more informed community. These efforts align closely with the RISHTA program's objectives, driving its mission of improving adolescent health and empowering communities to make informed health decisions.

## **2.5 Outbound Leadership Camp**

During the reporting period (FY24-25), The OLC (Outbound Leadership Camp) session held at Tumung saw active participation, with 126 attendees taking part in various leadership and team-building activities. This program focused on fostering essential skills such as decision-making, communication, problem-solving, and resilience, which are crucial for effective leadership. Participants engaged in both individual and group exercises designed to enhance their confidence, adaptability, and collaborative skills in challenging scenarios. The hands-on experience provided a supportive environment for attendees to push beyond their comfort zones, promoting personal growth and self-awareness. By the end of the session, participants reported feeling better equipped with practical leadership tools and a renewed sense of motivation to apply these skills in their communities and work environments. The Tumung OLC batch has been a successful step in developing young leaders who can make a positive impact in their respective fields

## **2.6 Youth Resource Clubs (YRC) Formation**

During the reporting period (FY24-25), Youth Resource Clubs (YRCs) established across various villages, including Panduabhitha, Menjura, Dharjori, Mohlidih, Nagrikala North, Jamdiha, Radhanagar, Fathamahul, Gandua, Tilatand, Singra, Chatrutand, Bagdaha, Bardar, Maheshpur-1, Domanpur, Chungi, Bada Pandeydih, Baswaria, Dumara South, Kanchanpur, Barora, Devgram, Sinidih, Chitahi, Kharkhari, Sindwartand, Siyalgudri, and Saraydaha. These clubs collectively engaged participants ranging from 12 to 25 individuals per location, fostering a dynamic space for dialogue and growth.

The YRCs serve as critical platforms for young people to engage in meaningful discussions on Adolescent Reproductive and Sexual Health (ARSH) while addressing pressing local challenges. Participants developed a stronger sense of responsibility and empowerment, encouraging them to take active roles in community development. These clubs also emphasized personal growth by creating opportunities for continued engagement, skill development, and learning.

Aligned with the RISHTA program's mission, the formation of these 42 YRCs significantly contributed to informed decision-making, leadership development, and sustainable progress at the grassroots level. The initiative continues to strengthen the program's impact, nurturing a generation of empowered youth ready to drive positive change in their communities.

## **2.7 Cleaning Drive**

During the reporting period (FY24-25), a successful cleaning drive was organized in the villages of Tetengabad, Dhandabar Bherakhudar, Raghunathpur, Fulwaritand, and Lohapatti, engaging 22, 23, 27, 22, 16, and 30 participants, respectively. The initiative aimed to promote environmental cleanliness and raise awareness about the importance of maintaining a clean and healthy community. Participants actively took part in cleaning various public spaces, contributing to the betterment of their surroundings. The cleaning drives also served as a platform to engage community members in meaningful discussions on health and hygiene practices, further aligning with the RISHTA program's goals of promoting overall well-being. Through these collective efforts, the initiative strengthened community involvement and empowered participants to take ownership of their local environment, ensuring a positive impact on public health.

## **2.8 Skill development**

During the reporting period (FY24-25), the RISHTA program emphasized skill development by facilitating continuous counseling sessions involving youths, parents, and influential community members. These efforts successfully linked 105 youths with vocational training programs or job opportunities, helping them secure pathways for personal and professional growth and individuals received placement opportunity.

The counseling sessions highlighted the importance of skill enhancement and shared information about various reputed skill development organizations, including MCC, JNTVTI, PMKVY, and the Pratham Foundation. These initiatives aim to equip young individuals with the necessary skills to improve their employability and contribute to the socioeconomic development of their communities.

## **3. Day Observation**

### **3.1 Awareness Sessions on World No-Tobacco Day**

On World No-Tobacco Day, impactful awareness sessions were organized by the RISHTA team at Malkera South Panchayat Bhawan and Manjhladih High School Campus. These sessions aimed to educate attendees about the adverse effects of tobacco use and encourage healthier lifestyle choices.

At Karitand High School Campus, the session was led by Dr. Rajkumar (Medical Officer, TCH Jamadoba), Bipin Singh Choudhary (Manager, Community Development, Tata Steel Foundation), and other local leaders. At Malkera South Panchayat Bhawan, a team of doctors, including Dr. Ankit Prakash (Registrar, TCH Bhelatand) and Dr. Sudhir Kumar (Medical Officer, CHC Baghmara), offered valuable insights into the health risks posed by tobacco.

Both sessions were interactive, benefiting 135 participants through engaging discussions and practical advice.

### **3.2 International Youth Day Event**

On International Youth Day, the RISHTA team organized a vibrant event at Malkera Community Center under the theme "From Clicks to Progress: Youth Digital Pathways for Sustainable Development." With 70 participants, the event featured discussions led by Dr. Shekhar Chandra, highlighting the importance of youth in shaping the future and leveraging digital tools responsibly. Participants explored how technology supports sustainable practices, aids in education, and provides career opportunities while addressing concerns like privacy and AI-related job challenges.

### **3.3 Menstrual Hygiene Day**

To mark Menstrual Hygiene Day on 28th May, RISHTA hosted awareness sessions at the Jamadoba Unit and Malkera Community Center, focusing on menstrual health and dispelling myths. In Jamadoba, Dr. Neelam Tirki (Sr. Registrar, TMH) inaugurated the session alongside other dignitaries. At Malkera, the session was inaugurated by Dr. Shika (Medical Officer, CHC Jokta) and other health professionals. Interactive discussions empowered adolescent girls to address menstrual health concerns confidently.

### **3.4 AIDS Day Awareness Rally**

On 1st December, a rally was held to observe World AIDS Day, organized collaboratively by the RISHTA and Gender and Community teams. Starting from Lalbangla, the rally featured 68 participants and was flagged off by Dr. B. Patra, who inspired attendees with an empowering speech. The event emphasized AIDS prevention, awareness, and destigmatization, successfully engaging the local community in meaningful dialogue.

## **4. Major Events**

### **4.1 Saathiya Samaroh**

The Saathiya Samaroh was successfully held on Monday, 10th June 2024, at the TATA Community Center, Sijua No. 6. This event celebrated the achievements of adolescents who completed the ARSH (Adolescent Reproductive and Sexual Health) Peer Educator training program. These young individuals underwent an intensive three-day training and are now champions of promoting positive sexual and reproductive health practices among their peers.

The program was inaugurated by esteemed guests, including Sanjiv Thakur (TATA Steel Colliery Head, Sijua), Amar Prakash Khalko (TATA Steel HR, Sijua), Dr. Debabrata Das, and Dr. Homa Fatma (Medical Officer, Dhanbad). The event also featured contributions from medical officers and youth coordinators, who shared valuable insights on adolescent health and opportunities for growth. A total of 160 participants, including the RISHTA team, attended, demonstrating strong community commitment to youth empowerment and health education.

### **4.2 Manthan**

During the reporting period (FY24-25), the Manthan program was successfully organized at the Chetudih Community Centre, bringing together 77 participants in a dynamic and impactful event. The program showcased the talents and voices of young changemakers, with 26 participants selected as speakers and 8 identified for sharing their inspiring stories. Additionally, a skit group of 8 participants delivered a thought-provoking performance, while three cultural groups added vibrant energy to the event, contributing to its overall success.

The event was graced by distinguished guests, including Dr. Bidyadhar Mandal (MO CHC Baghmara), Rajesh Kumar (Unit Lead), Rohit Ranjan Paul Minj (Manager, RISHTA Program), Ruth Sangita Kerketta (Manager, Nutrition Program), and Dr. Debabrata Das (Manager, Public Health).

Manthan serves as a precursor to the Dhwani program, an annual celebration of International Youth Day scheduled for 12th January 2024 in Jamshedpur. Dhwani provides a platform for youth to express their perspectives on social issues, emphasizing their meaningful contributions to global efforts at the local level.

This year's theme, "From Clicks to Progress: Youth Digital Pathways for Sustainable Development," highlighted the transformative potential of digital tools in fostering sustainable progress. Manthan Yatra engaged young changemakers in discussions about the theme, celebrated their talents through cultural performances, and inspired them to take positive actions within their communities. The program reinforced the RISHTA initiative's commitment to empowering youth and driving community development.

### **4.3 Dhwani Program**

The Dhwani Youth Conclave was successfully organized in Jamshedpur. From the Jamadoba unit, 68 selected participants from Dhanbad and Baghmara blocks took part in the event. It provided an engaging platform for young minds to exchange ideas and showcase their talents.

The central theme, "*From Clicks to Progress: Youth Digital Pathways for Sustainable Development*", resonated throughout the day. Group discussions enabled participants to share innovative ideas on how digital tools can address pressing societal challenges and contribute to sustainable development goals. The discussions were vibrant and thought-provoking, highlighting the role of digital literacy in empowering youth to drive positive change in their communities.

## SPARSH

The Sparsh program has made significant strides in leprosy detection, treatment, awareness, and support for individuals affected by the condition. Below is an elaborate narrative report highlighting its key achievements mentioned below:

The Sparsh team has identified 70 new leprosy cases through active case detection efforts. These cases represent individuals who will now receive timely medical intervention and care. Additionally, the program referred 12 Reconstructive Surgery (RCS) patients to Nirmala Leprosy Hospital in Gobindpur, ensuring they receive specialized treatment to improve their quality of life.

In its ongoing efforts to support mobility for individuals affected by leprosy, the team distributed 504 pairs of protective footwear. This vital intervention helps prevent further disability among those with foot-related complications due to leprosy. Furthermore, 525 individuals benefited from outpatient department (OPD) services, showcasing Sparsh's commitment to providing accessible healthcare to those in need.

Awareness initiatives have also been a cornerstone of the program. In 12 schools across Jamadoba and Sijua, awareness programs were conducted, reaching a total audience of 2737 participants, including students, teachers, and other stakeholders. These sessions aim to dispel myths about leprosy and promote early detection. Additionally, contact examinations were carried out in 20 leprosy colonies across the Dhanbad district, screening 1133 individuals. This initiative identified 8 new leprosy cases, underscoring the importance of thorough community-based surveys.

The Sparsh team supported the Govt. LCDC (Leprosy Case Detection Campaign) program by training 237 government health workers, including 60 Community Health Officers (CHOs) and 142 Auxiliary Nurse Midwives (ANMs). These trained workers are now better equipped to identify and manage leprosy cases. During the program, Sparsh and district health teams jointly confirmed 66 suspected cases, further strengthening the region's capacity for leprosy control.

In addition to medical and awareness efforts, Sparsh has distributed aids and appliances to 20 individuals affected by leprosy. The distributed items include crutches, walker bars, tricycles, and a wheelchair, which enhance mobility and independence for the beneficiaries. Three Prevention of Disability (POD) camps were also organized in different leprosy colonies of Dhanbad, benefitting 95 individuals through targeted interventions to prevent or manage disabilities caused by leprosy.

The program commemorated the International Day for Persons with Disabilities on December 3rd, where 34 individuals attended the event. During the celebration, 6 nos of aids and appliances, along with 28 pairs of MCR footwear, were distributed to beneficiaries, emphasizing Sparsh's holistic approach to inclusion and support.

Sparsh also celebrated the birth anniversary of JRD Tata on July 29th at the Sparsh Center. The occasion marked the distribution of five aids and appliances (three crutches, one tricycle, and one walker bar) and 26 pairs of MCR footwear to individuals with disabilities. This event highlighted the program's commitment to uplifting and empowering marginalized individuals while honouring Tata's legacy.

Through these comprehensive efforts, the Sparsh program continues to impact the lives of individuals affected by leprosy and disabilities, fostering better health outcomes, mobility, and community awareness.

## DRISHTI

The DRISHTI project, implemented by Tata Steel Foundation (TSF) in Baghmara Block, has made significant strides in addressing vision-related health challenges in the community during the period of April to March 2025. A total of 740 individuals underwent eye screening under this initiative, demonstrating the program's extensive outreach. Among these, patients were identified with suspected mature cataracts, necessitating further medical intervention.

WE successfully mobilized 107 patients, facilitating cataract surgeries in Ayushman Bharat and District Blindness Control Society (DBCS)-accredited hospitals. We have also organized Mobile Surgical Eye Unit (MESU) at Malkera Community centre, in which 1124 screened & 351 cataract surgeries conducted through Sankara Netralaya from 10<sup>th</sup> Feb to 12<sup>th</sup> March.

Additionally, 27 patients, sensitized through awareness initiatives, independently sought surgical treatment from these accredited healthcare facilities. These efforts underscore We's commitment to enabling accessible and quality healthcare for vulnerable populations.

The program also extended its focus to neonatal eye health, screening 391 newborns for ROP. This intervention identified two cases of Retinopathy of Prematurity (ROP), which was promptly referred to a tertiary care hospital, ensuring timely treatment.

Capacity-building and awareness programs played a pivotal role in augmenting the project's impact. A total of 339 healthcare workers, including Sahiyas and Auxiliary Nurse Midwives (ANMs), were trained by our team to enhance their capabilities in addressing vision-related issues. Furthermore, 240 government schoolteachers were trained and sensitized to identify and address refractive errors among students.

Through school-based screenings, 785 students were examined for refractive errors, with 11 cases being detected and referred for corrective measures. Community engagement efforts were also noteworthy, with 1177 members participating in awareness programs focused on cataract prevention and treatment.

The DRISHTI project's comprehensive approach—encompassing screenings, treatments, capacity-building, and community awareness—has significantly contributed to improving eye health outcomes in Baghmara Block, reaffirming our's commitment to creating healthier communities.

## **MPHU & BLS**

The Mobile Public Health Unit (MPHU) has continued to make a significant impact in providing essential healthcare services to underserved communities within the Tata Steel leasehold areas. From April to March of FY-25, the MPHU catered to 8781 registration & 7,526 new villagers availing of its services During this reporting period (FY24-25). The unit not only conducted medical check-ups but also distributed necessary medicines to address local prevalent and chronic diseases, thereby delivering both preventive and curative healthcare.

Covering approximately 40 villages surrounding the Tata Steel Plant, the MPHU has proven to be a crucial intervention in reducing the out-of-pocket healthcare expenditure for villagers. By providing free distribution of medicines and facilitating pathological services for the early identification of non-communicable diseases, the MPHU enhances community health outcomes while alleviating financial burdens. Its holistic approach has fostered a significant improvement in access to healthcare services, making it a vital component of the region's healthcare ecosystem.

Similarly, the Basic Life Support (BLS) program under the Tata Steel Foundation has been a noteworthy initiative aimed at equipping school children with life-saving skills. Between April 2024 and March 2025, the program was conducted in ten schools across Dhanbad and Baghmara, engaging a total of 1381 participants.



Designed to enable children to respond effectively during emergencies, the BLS program fosters a culture of preparedness and resilience. By imparting essential skills in a hands-on and engaging manner, the program empowers young participants to play an active role in safeguarding their communities, demonstrating Tata Steel Foundation's commitment to building a safer and healthier future.

## **SABAL: PROMOTING INCLUSION, EMPOWERMENT, AND SUPPORT FOR PERSONS WITH DISABILITIES (PWDs)**

The Disability (SABAL) program has been functioning in the Baghmara block, through its concerted efforts, the program has identified a total of 1324 PwDs across the region, ensuring that their needs and challenges are brought into focus. Of these, 74 PwDs have successfully undergone the certification process, facilitated by the mobilization efforts of Tata Steel Foundation (WE) across the block. This certification is a crucial step toward enabling PwDs to access entitlements and services tailored to their requirements.

The program has also played a pivotal role in linking 144 eligible PwDs with various government welfare schemes. These linkages provide essential financial, medical, and social support, contributing to improved quality of life and socio-economic inclusion. Additionally, 7 PwDs have been integrated into WE's livelihood initiatives, empowering them with opportunities for self-reliance and economic independence. Additionally, 9 PwDs have integrated with our various projects.

Recognizing the importance of communication and skill development, 16 PwDs have received specialized training in sign language under the program. This training enhances their ability to communicate effectively and fosters greater inclusivity within their communities. Furthermore, extensive awareness campaigns conducted across Baghmara have reached 1160 including 188 PwDs, 872 without PwDs, 100 Sevikas educating them about their rights, available resources, and opportunities for empowerment.

The program has also supported 66 PwDs through other initiatives, including observances like World Disability Day. These events highlight the challenges faced by PwDs and celebrate their resilience and contributions to society. Through these multifaceted efforts, the Disability (SABAL) program continues to pave the way for a more inclusive and supportive environment for PwDs in the Baghmara block.

2 outdoor leadership campaign conducted by us at Tumung for PwDs, in which 30 participants attended the programme in month of

Assistive device provided to 48 PwDs, which includes 25 artificial limbs, 5 Callipers, 4 scratches, 3 sticks, 10 wheelchairs, 1 shoes in camp organized at Malkera in association with BMBSS( Bhagawan Mahabir Biklang Sahayata Samiti)

A Sabal award programme organized to felicitate PwDs, where 15 PwDs attended the programme and 3 PwDs received SABAL award, held at Jamshedpur

## GENDER & COMMUNITY ENTERPRISE:

Tata Steel Foundation has been working with women across operational area of Jamadoba, Jharia Division with the aim to empower them socially through their capacity building, Leadership development making them more responsible and accountable towards their village by engaging them in social activities and empowering them economically by linking them to income generation activities through Community enterprise.

**Gender:** Leadership development Training ‘**DISHA**’ (Enable women with leadership potential to have an effective voice in community decision making processes)

### Project Background

The project is laid on the very conscience of Tata Steel Foundation that is, the agenda of having equality in society by motivating women and making them *realize their potential with dignity* and further uplifting the condition of the *excluded and tribal communities*.

The strategy is to develop 1500 active women within the next five years by transforming them as change-makers through socio-political and digital empowerment by making systematic investments to enhance their participation surrounding Aam Sabha, social institution and productivity, as also create and sustain model of rural women. It will empower women to take up strategic position in the society and decision-making institution/ bodies as well as empowering them as advocates for human right and gender based and development issues within their communities.

### Objectives

Enabling 350 women to have an effective voice in community decision making process.

Developing an ecosystem that fosters self-reliance and a life of dignity for socially excluded and deprived class women including single women, widows, elderly, destitute, victimized and physically challenged.

Each year the targeted women shall go through three sets of task basis training, which are stated below:

Module A - Gender and women leadership development

Module B - Role of Women in local self-governance

Module C - Networking and advocacy skills for collective voices

After training these women lead different social activities like identification of excluded family in the Panchayat and linking them with social security programs, Community led initiatives such as “We for Change”, social issues etc, participated in Aam Sabha and mobilized other women to participate in the same and raised the issue related to development of Panchayat, participated in preparation of gender inclusive Gram Panchayat Development Plan (GPDP) etc.

### Beneficiary Profile:

The targeted women under this belong to the OBC, SC, ST and excluded communities of Jamadoba location. Even if the participation is there in the Panchayat Committees or Gram Sabha, that too only exists on paper. By implementation of this project, the women between the age group of 18 to 45 shall be the ones who shall get the adequate training, and they shall act as change makers by providing handholding support the ones falling under the bracket of excluded communities which include single women, widows, disable, elderly, destitute women, victimized women, economic weaker family, orphans, families consisting only of **women**.

## **Disha Training (Enable women with leadership potential to have an effective voice in community decision making processes)**

Tata Steel Foundation, Jamadoba Unit have successfully completed the leadership development initiatives by imparting four days residential DISHA training on three different modules- A, B and C for the identified & interested women from the community as per plan during FY-2025.

The key contents of training module wise content covered as-

Module “A” - “Gender and women leadership development”

1. Gender based division of labour
2. Understanding of violence-Gender based violence types
3. Violence matrix, violence against women in their life cycle
4. Understanding of Patriarchy
5. Barriers in effective communication

Module “B” - “Role of Women in local self-governance”

1. Reach and control in social institution for women, Types of social institution and service available from social institution through train game.
2. Government scheme available for women and how to reach through ppt presentation.
3. Importance of gram Sabha through role play.
4. Gender inclusive planning and practice on G.P.D.P through group exercise.

Module “C” - “Networking and advocacy skills for collective voices”

1. Gender budgeting through PPT, Videos and discussion about its objective, needs and its steps.
2. Discussion on networking at different level like: Gram-Panchayat, Block, District and different organization through (Role play).
3. Discussion on lobby and advocacy.
4. Discussion on gender equity and equality through videos.
5. Law related to women and children through videos.
6. Discussion on social inclusion and social justice.
7. Introduction to different digital portal related to program.
8. Law related to women and children through videos.
9. Discussion on social inclusion and social justice.

10. Introduction to different digital portal related to program.

#### **key Achievement during FY -2025**

As We have planned and trained to enrol to a total 350 women and they have been undergone four days residential training from different blocks of Dhanbad, Baghmara and Tundi under Dhanbad District. Status of block wise trained women leaders are-

Total **346** women have enrolled, and **238** women completed the module C.

**For Baghmara block total 131 women have enrolled, and 115 women have completed all the module C.**

**For Dhanbad block total 110 women have enrolled and 88 women have completed women module C.**

**For Tundi block total 105 women have enrolled and 35 women have completed module C.**

#### **Convocation ceremony:**

Tata Steel Foundation central team have conducted Certification (Convocation) ceremony on 21<sup>st</sup> October 2024 & On 10<sup>th</sup> February 2025 for Disha trained Didi's for their successful completion of DISHA training module during FY - 2024 & FY-2025 at XLRI Auditorium Jamshedpur. From Jamadoba Unit total 186 women have attended the convocation ceremony and received her certificate in such a large forum. On Some of Disha trained women were shared her change story for bringing changes in the society by highlighting social issue in society.

**Digital Literacy training - Digital** literacy, in today's time, is a life skill that can open many doors of benefit and ease. From UPIs making financial transactions hassle-free, to browsers making access to government schemes and benefits readily usable – digital literacy has tapped into every corner of a person's daily life to bring in benefits and give out services to support livelihood. Lack of awareness and due to illiteracy and unawareness of various government schemes and its provisions lead to disconnection of marginalized family from mainstream and access to govt. scheme. To address this issue, it is crucial to implement a digital literacy, Increased awareness, utilization of government digital services and scheme that provides comprehensive training, access to digital tools, and awareness of Govt. Scheme and ensure equal opportunities for all. **Total 600 women received digital literacy training from Baghmara and Dhanbad blocks.**

#### **Post Disha training: We for change**

Post completion of training the trained women have shown change in spirit by adopting community led initiatives such as Cleaning the surrounding of their village, Anganwadi centers, Pond cleaning which makes them different from Others. Also, they raised their voices amongst community by active participation in awareness rally based on social issue such as Anti Alcohol, Child marriage, Dowry system, World Aids Day awareness etc. With these activities the women gained drastic confidence in themselves. Total 27 We for Change initiatives organized with 1890 women's have participated in these initiatives.

**Women participation in Gram Sabha –** Post completion of Disha trained active women leaders reaching out to Participation in Gram Sabha meetings to highlights their needs in the community. With these total 180 women have attended in different gram Sabha's during the year from Baghmara and Dhanbad blocks.

**Women in decision making –** After Disha training there are around **65 women** from Different four blocks who are in decision making position in the organization.

**Linkage to govt. schemes-** G&CE team has supported with filling the application form and other process to SHG women from different blocks to avail govt. schemes. A total. **650 women** have leverages to INR. 1.12 Crore approximately by public entitlement unlocked fund under different govt. schemes such as Jharkhand Mukhay Mantri Maiya Samman Yojana (JMMSY), Abua Awash Yojana, Didi Badi Yojana etc.

**Celebration of International women's day** – To celebrate the spirit of women empowerment G&CE team Jamadoba was organised women's day celebration with a total 850 women from Baghmara, Dhanbad, Baliapur, Kaliasole and Tundi blocks.

### **Community Enterprise (Empower rural women with a platform that provides access to economic resources)**

**Project Background:** Community based entrepreneurship is an important instrument for the realization of potential among marginal women from deprived community. Tata Steel Foundation aimed to strengthen the SHG women to provide technical training and exposure visit to engage them in community enterprises for their economic enhancement and to achieve the annual income target around INR. 50000/- annually.

From April 2024 to March 2025 five enterprises are running which includes Sanitary pad manufacturing unit, Paper plate making enterprise, Masala making enterprise which helps women to generating income approximate INR 37500/- annually per member.

**Enterprise Development Program (EDP) training** – WE G&CE team has organized a 10-day training and certification program in association with RSETI (Rural Self Employment Training Institute) based at Dhanbad. The training includes Papad making, Masala making and Shop establishment. After completion the training total 35 women participants was awarded with govt. approved certificate.

## **SUSTAINABLE AGRICULTURE & INCOME ENHANCEMENT INITIATIVES**

During the year various initiatives were undertaken to promote sustainable agriculture and enhance the income of marginal households.

### **Followings are the Key Activities Implemented**

#### **Summer Crop Cultivation**

- Number of Beneficiaries: 699 farmers
- Objective: Promote off-season cropping to maximize land productivity.
- Outcome: Increased farm income through diversified cropping.
- Support: High quality vegetable seed and Bio-fertilizer

#### **Animal Husbandry Camp**

- Number of Beneficiaries: 557 farmers
- Objective: Improve livestock health and productivity.
- Outcome: Provided vaccinations, veterinary services, and training.

#### **Second Crop Promotion**

- Number of Beneficiaries: 392 farmers
- Objective: Encourage multiple cropping cycles per year.
- Outcome: Enhanced soil fertility and household income.

#### **Vegetable Training**

- Number of Beneficiaries: 347 farmers
- Objective: Train farmers in modern vegetable cultivation techniques.
- Outcome: Improved yield and market access.

#### **Goat Vaccination Program**

- Number of Beneficiaries: 265 farmers
- Objective: Control livestock diseases.
- Outcome: Reduced mortality rate in goats, leading to higher profits.

#### **Kishan Gosti (Farmer Meetings)**

- Number of Beneficiaries: 240 farmers
- Objective: Knowledge sharing and awareness creation.
- Outcome: Farmers adopted best practices in agriculture.

#### **Fruit Plant Distribution**

- Number of Beneficiaries: 221 households
- Objective: Enhance long-term income generation through orchard development.
- Outcome: Distributed fruit saplings to promote sustainable horticulture.

#### **Paddy Seed Distribution**

- Number of Beneficiaries: 204 farmers
- Objective: Improve paddy yield and food security.
- Outcome: Increased productivity with quality seeds.

#### **Exposure Visits**

- Locations: Tundi (117 farmers), Ranchi (60 farmers), Jamshedpur (37 farmers)
- Objective: Provide hands-on learning through field visits.
- Outcome: Farmers gained insights into advanced agricultural practices.

#### **Poultry & Dairy Support**

- Poultry Chicks Distributed: 60 farmers
- Hatchery Support: 10 beneficiaries
- Poultry Cage Distribution: 10 beneficiaries

- Ice Box for Dairy Farmers: 10 beneficiaries
- Breeder List Support: 10 beneficiaries
- Objective: Strengthen alternative income sources.
- Outcome: Increased poultry and dairy production.

### Agricultural Machinery Support

- Power Weeders: 22 farmers
- Paddy Threshers: 16 farmers
- Solar Submersible Pumps: 30 farmers
- Electric and Solar Pumps (various capacities): Multiple farmers
- Grass Cutter: 1 farmer
- Wooden Cabinet: 1 farmer
- Objective: Reduce labor costs and enhance productivity.
- Outcome: Improved mechanization in farming.

**Government Scheme Leverage Report for Farmers of Jamadoba and Sijua**  
During FY25, Tata Steel Foundation successfully leveraged multiple government schemes to benefit farmers in Jamadoba and Sijua. The initiatives focused on agricultural inputs, training, irrigation, and animal husbandry, ensuring comprehensive support to enhance productivity and livelihoods.

### Key Highlights

- 1. Fertilizer and PPE Distribution**
  - **Beneficiaries:** 66 farmers (SC: 32, OBC: 34)
  - **Mobile Data:** 45 farmers provided contact details for follow-ups.
- 2. Agricultural Training Programs**
  - **3-Day Training:** 30 farmers trained under *Rajya Fasal Suraksha Yojna* (Plant Protection).
  - **1-Day Training:** 64 OBC farmers trained in INM/IMP practices.
- 3. Input Distribution**
  - **Seeds:**
    - *Mustard Seeds:* 20 farmers (SC: 16, OBC: 4).
    - *Vegetable Seeds:* 37 OBC farmers via *Udhyanik Vikas Yojna* (Horticulture Dept.).
  - **Oil Seeds:** 22 farmers (SC: 18, OBC: 4) under *NFSM*.
- 4. High-Value Interventions**
  - **Solar Pumps:** 6 OBC farmers received pumps (₹5 lakh each) under *Kusam Yojna*.
  - **Drip Irrigation:** 2 OBC farmers supported (₹2.5 lakh each) via *PM Micro Irrigation Scheme*.
- 5. Animal Husbandry**
  - **Camps:** 76 farmers (SC: 22, OBC: 53, ST: 2) benefited from *Pashudhan Vikas Yojna* (₹2,000/farmer).

### Financial Summary

- **Total Funds Leveraged:** ₹1,06,82,000 (see *Overall* sheet for breakdown).
- **Major Schemes:**

- *Rajya Fasal Suraksha Yojna*: ₹2.5–3k/farmer (Plant Protection).
- *Kusam Yojna*: ₹30 lakh (Solar Pumps).

## GRASSROOTS SPORTS PROGRAMME:

**Build community connect through sports and nurture sporting talent at grassroots levels.**

Tata Steel Foundation enables Community Development through the Grassroots Sports Program across the operational units of Tata Steel. In the same path, the Jamadoba Unit of the Tata Steel Foundation is effective implementing the sports strategy in the leasehold and nearby areas of Tata Steel Jharia Division.

The sports program is primarily divided into three categories as mentioned and elaborated with achievements of each category till January of FY25:

### 1. Running Sports Training Centre:

At Jamadoba, Tata Steel Foundation runs 8 Sports Training Centres and detailed breakup is provided below:

Location	Sports	Centre	Coaches	Players
Bhelatand	Archery	1	1	40
	Football	1	2	40
	Athletics	1	1	40
Tundi	Football	1	1	20
Topchanchi	Football	1	1	20
<b>Grassroots Total</b>		<b>5</b>	<b>6</b>	<b>160</b>
Digwadiah	Archery	1	2	60
	Football	1	2	60
	Athletics	1	2	60
<b>Youth Development Total</b>		<b>3</b>	<b>6</b>	<b>180</b>
<b>Jamadoba Total</b>		<b>8</b>	<b>12</b>	<b>340</b>

The trainees are nourished under expert coaches, provided daily nutritional diet, and supported with quality sporting equipment.

The trainees from these centres have achieved a lot of accolades in the current FY. A synopsis is provided below:

### 1. No. of trainees selected for Centre of Excellence: 17 (16 in football and 1 in archery)

Trainee Name	Sport	Selected For
1. Aman Kumar 2. Aman Firdoush 3. Rohit Kumar	Football	East United FC, Bihar
1. Sandeep Kumar Das	Football	Army Boys Sports Centre, Bangalore



2. Ritesh Jamuda		
1. Sandhya Kumari 2. Anju Sharma 3. Vivek Dutta	Football	Sudeva FC, Delhi
1. Khushi Kumari	Archery	Tata Archery Academy, Jamshedpur
1. Aftab Ansari	Football	Zinc Football Club, Jaipur
1. Mahadev Bhuiyan	Football	Inter Kashi Football Club, Varanasi
1. Kartik Marandi 2. Asraful Rahbar 3. Krish Kumar 4. Piyush Mahato 5. Vinay Kumar Turi 6. Samrat Kumar Bauri	Football	Tata Football Academy, Jamshedpur

2. **No. of trainees who won medals at National Level Competitions:** 05 (03 in football and 01 in athletics)

Trainee Name	Sport	Achievement
1. Sandhya Kumari 2. Priti Kumari	Football	Part of Runners Up Team at Junior Girls Nationals Football Championship
1. Moutushi Mondol	Football	Part of Runners Up Team at Sub-Junior Girls Nationals Football Championship
1. Tannu Kumari	Athletics	Part of U18 Jharkhand Girls Medley Relay Team which won silver medal at East Zone Junior National Athletics Championship
1. Tannu Kumari	Athletics	Silver Medal at National Games in Modern Pentathlon Laser Run event

3. **No. of trainees who won medals at State Level Competitions:** 09 (02 in archery, 07 in athletics)

Sr. No.	Trainee Name	Sport	Age Category	Achievement
1	Chandani Kumari	Athletics	U14	Bronze Medal in Jharkhand State Junior Athletics Championship
2	Shreya Raj		U14	Silver Medal in Jharkhand State Junior Athletics Championship
3	Raj Kumari Yadav		U16	Bronze Medal in Jharkhand State Junior Athletics Championship
4	Asha Kumari		U18	Bronze Medal in Jharkhand State Junior Athletics Championship
5	Raj Kumari Yadav		U17	Bronze Medal in Khelo Jharkhand Athletics Championship
6	Neha Kumari		U17	Silver Medal in Khelo Jharkhand Athletics Championship

7	Prince Kumar		U17	Silver Medal in Khelo Jharkhand Athletics Championship
8	Radhika Kumari	Archery	U17	Gold Medal in Khelo Jharkhand Archery Championship
9	Jyoti Kumari		U17	Silver Medal Khelo Jharkhand Archery Championship

4. **No. of trainees represented State Team at National Level competitions:** 31 (13 in football, 04 in athletics and 14 in archery)

## 2. Organising Sports Competition and Coaching Camps

As part of the Sports Strategy, Tata Steel Foundation organises various sporting events round the year in order to create a culture and awareness about sports in the operational units. In connection to this, Jamadoba Unit had organised certain events till January as appended below:

- A. International Day of Sports Development and Promotion:** WE Jamadoba Unit commemorated the International Day of Sports for Development and Peace on April 6 along with PwDs, youngsters, and trainees at Malkera Community Centre. The selection of participants was based on this year's theme, "**Sports for Promotion of Peaceful and Inclusive Societies.**" A total of 37 participants came to celebrate the program's success. All the attendees eagerly engaged in the indoor fun games, **Flip the Cones**, and **Collect the Cones**, which kicked off the event. The enjoyable games were followed by an awareness session from the Public Health Vertical Nutrition Team about Healthy Eating Habits in Daily Life. It was an informative and knowledge-filled seminar that covered the fundamentals of leading a healthy lifestyle through minimalism.
- B. Summer Camp:** In an endeavour to nurture the athletic potential of children residing in the leasehold and neighbouring areas of Tata Steel's Jharia Division, the Tata Steel Foundation's Jamadoba Unit organized the 10-day long Summer Camp 2024 which started on June 5th, 2024, and continued till June 14<sup>th</sup>, 2024. The camp, held in Digwadih and Malkera, aimed to engage youngsters aged 7 to 17 in the sports disciplines of Archery, Athletics, and Football.

With a resounding participation of 800 individuals, including 254 girls, the camp witnessed an enthusiastic display of sportsmanship and perseverance. Of the total participants, 550 campers joined from Digwadih, while 250 came from Malkera, emphasizing the widespread interest and community engagement in sports. The detailed bifurcation is provided below:

Sports	Digwadih	Malkera	Sports Total
Archery	110	58	<b>168</b>
Athletics	130	84	<b>214</b>
Football	310	108	<b>418</b>
<b>Total</b>	<b>550</b>	<b>250</b>	<b>800</b>

Under the expert guidance of coaches from the Tata Steel Foundation Jamadoba Unit, a meticulously planned curriculum unfolded over the course of the camp. Furthermore, the camp served as a platform for talent identification, with the aim of scouting promising individuals for potential inclusion in the Digwadih Youth Development Centre (formerly Tata Feeder Centre) and Sijua Grassroots Centre. These centers offer

year-long sports training under the mentorship of skilled coaches, providing young athletes with opportunities for continued growth and development.

- C. Inter Unit Football Competition:** As part of its Sports Strategy, Tata Steel Foundation has developed Inter-Unit Sports Competitions for the trainees of its Sports Training Centres across all the operational units. In view of this, Inter Unit U13 Boys and Girls Football Competition (Tejas Cup) was organised by Jamadoba Unit at Sijua Stadium. In the Boys Competition, organised from 16<sup>th</sup> to 19<sup>th</sup> December 2024, 6 teams from Jamshedpur, Joda, Noamundi, Bishnupur and Jamadoba participated where Jamadoba triumphed victorious. In the Girls competition organised from 26<sup>th</sup> to 29<sup>th</sup> December 2024, 5 teams from Jamshedpur, Jamadoba, Joda, Kalinganaga where team Jamshedpur clinched the victory. The competition provided a platform for the trainees to showcase their skills and created competition awareness among them.
- D. Blue Cubs League:** An initiative of the All-India Football Federation focuses on age-appropriate games format for children aged 4 to 12. These engaging game styles ranging from 2v2 to 7v7 aim to maximise participation and enjoyment among kids. Tata Steel Foundation organised the Blue Cubs League within the Jharia Division from 1<sup>st</sup> to 9<sup>th</sup> February 2025 which marked a significant step in fostering Grassroots Football Development. It helped to cultivate young talent and promote the sport at the foundational level and provided the players in age category of U10 and U12 of Grassroots and YD Centres under Jharia Division a competition platform to showcase their talent.

### **3. Supporting Sportsmen and Sports Organisation**

Tata Steel Foundation Jamadoba Unit keeps on supporting the local sporting clubs/associations etc for organizing various sporting tournaments/events (e.g., on Volleyball, Football & Cricket etc) to build the sporting culture/environment across our leasehold areas of Tata Steel Jharia Division. Through this way, we not only build good rapport with the local communities but also get positive results towards the smooth execution of the Company's business.

In FY25, Jamadoba Unit has supported 27 local sporting clubs/association which has benefitted around 3395 sportspersons in the leasehold and nearby areas of Tata Steel Jharia Division

## **WATER AND CIVIL INFRASTRUCTURE**

### **Facilitating Villagers by Constructing a Community Center:**

Baidhanawadih, a village under Kumarjuri Panchayat in the Baghmara Block of Dhanbad District, lacked a dedicated community center to host festivals, functions, and large community gatherings. This posed significant challenges for villagers, as there was no common space to accommodate larger events or collective activities. Recognizing the need, the villagers submitted a request to the authorities for constructing a community center. An NOC (No Objection Certificate) was obtained from the General Manager, Jharia, in 2008, enabling the construction of the proposed facility. The community center aims to serve as a hub for various cultural, social, and communal activities. It will provide a proper venue for conducting festivals and religious ceremonies, organizing family and social functions,

holding community meetings and gatherings that involve many participants. The center will benefit a population of over 600 residents from Baidhanawadih, Debagram, and Debagram Harijan Tola. It will enhance the quality of life by offering a centralized space for communal engagement, fostering a stronger sense of community, and reducing logistical challenges during large events. This initiative aligns with the objective of supporting rural infrastructure development and addressing the needs of underserved communities.

#### **Ensuring Safety and Accessibility through Infrastructure Improvement:**

Upper Dungri, situated in Ward No. 38 of Dhanbad District, Jharkhand, is a village located approximately 14 kilometers from Dhanbad town with a population of around 200 residents. A retaining wall near the village school, constructed over a decade ago, has sustained significant damage over time, prompting requests from villagers for its renovation. Upon visiting the site, it was observed that the damaged retaining wall poses several safety hazards, particularly for vulnerable groups such as children, elderly people and animals. The damaged wall near the school is a matter of grave concern, as it affects not only the safety of children but also the overall well-being of the community. Without intervention, the risks of structural collapse and associated injuries will persist, causing distress and hindering accessibility in the area. Tata Steel Foundation (WE) has recognized the urgency of this issue. Immediate steps are being taken to reconstruct the retaining wall to mitigate the risk of injuries and ensure a safe environment for children, elderly people, and animals. Prevent further deterioration of the structure and associated hazards, enhance the accessibility and functionality of the area for the entire community.

#### **Addressing Water Supply Issues in Rampur Muslim Tola :**

On December 10, 2024, the WE team visited Rampur Muslim Tola to address the ongoing concerns regarding insufficient water supply in the area. The issue had been raised by the villagers, prompting an on-site assessment by the team. During the visit, the following points were noted WE had previously provided four (4) common water connections to Rampur Muslim Tola to cater to the community's needs. Over time, numerous illegal tapping points have been added to the same pipeline, significantly reducing water pressure and supply to authorized users. As a result, the villagers are facing severe difficulties in accessing adequate water during supply hours. The WE team advised the villagers to take immediate action to remove all illegal connections. By eliminating these unauthorized taps, the water supply can be restored to its intended level, ensuring that all residents receive an adequate amount of water.

#### **Feasibility Assessment for a Dug Well at Debagram Harijan Tola:**

On December 12, 2024, the WE team visited the Debagram Harijan Tola agricultural field located in the Tand area. Farmers in the Tand area primarily grow paddy during the Kharif season. However, due to the lack of reliable irrigation facilities, they are unable to cultivate second or third crops. To meet their water needs, farmers have dug wells approximately three meters deep using their own resources. Unfortunately, these shallow wells dry up during the summer months, limiting their ability to grow vegetables and expand their agricultural activities. The farmers shared that they had constructed an earthen well about 20 years ago, which allowed them to irrigate around one acre of land for vegetable cultivation. However, due to the limited depth and water retention capacity, they are unable to increase their land under cultivation or maintain year-round crop production. The farmers requested the construction of a farm well, which would allow them to expand their cultivation to approximately four acres. Additionally, the increased water storage capacity of the new well would enhance their ability to maintain crops during dry periods and ensure better irrigation. Benefits of the Dug Well, A deeper, more reliable farm well would allow farmers to cultivate more land and grow a wider variety of crops, especially vegetables. The

well would improve water storage, ensuring a more consistent water supply throughout the year, particularly during the summer months when water scarcity is most pronounced. The moisture provided by the well will help sustain surrounding plants, contributing to a self-sustaining hydration cycle that supports local vegetation. Additionally, maintaining soil moisture during the summer will promote better soil health and reduce the risk of crop failure due to water shortages. Water conservation is not only a financial benefit, it also helps the environment. The moisture provided by the well can be helpful to surrounding plants in a self-sustaining cycle of hydration that keeps plants alive without water. It helps in maintaining soil moisture during summer.

#### **Addressing Water Supply Issues in Harijan tola, Patia :**

On January 30, 2025, the WE team visited Harijan Tola to assess and address concerns regarding inadequate water supply in the area. During discussions with the villagers, it was observed that water scarcity has become a significant challenge due to unauthorized tapping into the existing pipeline. Previously, TSRDS had provided two common water connections to meet the community's needs. However, over time, multiple illegal tapping points have been added to the same pipeline, reducing water pressure and affecting the authorized users. This has resulted in severe difficulties for the villagers in accessing an adequate water supply. Further assessment revealed that the water supply to Harijan Tola originates from a connection established nearly 30 years ago, linking it to the Lalbunglow overhead tank, which receives water from the WTP-MADA pipeline. Consequently, water availability in Harijan Tola is directly dependent on the supply from the Lalbunglow tank. To restore the water supply to its intended capacity, it is essential to remove the unauthorized connections. By implementing this measure, the community will regain access to a stable and sufficient water supply, ensuring their daily needs are met efficiently.

#### **Enhancing Water Conservation through Pond renovation:**

In the operational villages of Jamadoba, agriculture is primarily cantered around paddy cultivation. Total we have renovated 9 Number ponds with a storage potential of 1.644 MCFT. However, due to a lack of irrigation facilities, farmers are unable to grow a second or third crop. Given the strong market demand and favourable conditions for vegetable farming and fish rearing, we have identified an opportunity to support farmers by renovating two ponds—one in Lower Dungri and another in Purnadih. These ponds will provide improved irrigation facilities across 8 acres of cultivable land, directly benefiting more than 600 villagers. In addition to enabling year-round farming and fish rearing, the renovated ponds will offer multiple livelihood opportunities. Farmers can enhance their income by engaging in duck rearing, developing kitchen gardens on the pond bunds, and planting fruit-bearing trees along the edges. Beyond economic benefits, this initiative will also contribute to environmental sustainability. The conserved water will support nearby vegetation by maintaining soil moisture, creating a self-sustaining hydration cycle that benefits plant life even during dry seasons. By promoting both financial stability and ecological balance, this intervention will play a vital role in enhancing farmers' livelihoods and ensuring long-term water conservation.

#### **Facilitating mine water for domestic use by laying of pipeline:**

Water scarcity remains a significant challenge for the villages within the operational area of Sijua. Recognizing the importance of addressing this critical issue, our team, in collaboration with the local communities, has undertaken various initiatives aimed at improving water access. As a result, water infrastructure projects such as pipelines and open wells have become high-priority. In the Sijua area, a pipeline network has already been established to supply raw water from the Water Treatment Plant (WTP) to nearby villages and tolas. However, we have received recent requests from the communities of Rampur Adarsh Nagri and RajwarTola for the replacement and extension of this network to meet their growing needs. Currently, the pipeline runs from the WTP to Rampur Bangali Tola, and plans are in place to extend it to Rampur Rajwar Tola, which is located after Bangali Tola. The residents of Bangali Tola have expressed concerns about the unreliability of their water supply over an extended period. During site visit, we

inspected the existing pipeline, which has a 100 mm diameter from the WTP to Adarsh Nagar, but narrows to 50 mm diameter beyond that point to Bangali Tola. This reduction in diameter has caused low pressure, preventing sufficient water flow to the last points, making it impossible to extend the supply further to Rajwar Tola. In response, WE has planned to replace the existing lower-diameter pipeline with a 100 mm pipe and extend the line to Rampur Rajwar Tola (near Canara Bank), covering approximately 1486 meters pipeline and 1750 population benefited. The pipeline will be gradually reduced in diameter to ensure consistent water pressure, even at the extreme points.

#### **Supply Drinking Water through Solar based Overhead system :**

Water scarcity is a major challenge faced by the villages within the operational area of the Sijua area. Recognizing the critical nature of this issue, both our team and the surrounding communities have undertaken various initiatives to address it. Consequently, projects focused on water infrastructure, such as water pipelines, open wells, etc. have become high-priority undertakings. To ensure accessible water for all is an essential part of the community to live in. The aim is to accelerate access to safe drinking water supply in rural

areas and to improve existing drinking water sources, conjunctive use of surface water. Looking the need of the drinking water requirement of the community of key operational areas of Sijua mines. We had visited these locations (i.e. Pashitand, Baidnawadih, Debagram & Chaitudih) to survey the actual need and propose for installation of 4 Nos Solar Drinking Water Projects to fulfil the drinking water requirement of the community. This Project consists of drilling deep bore well, installing 4.50 M OHT with 5000 Liters capacity Water Storage Tank & Solar Pumping System and laying distribution pipeline network with stand posts tap outlets each within the village at regular intervals to cater the households in the vicinity for each structure. Total 1150 population benefited.

#### **Increase water storage potential by constructing of Ponds :**

In India, about one third of the total geographical area is drought prone. The occurrence of drought and floods is showing an increasing trend over the recent decades. Extreme events of both droughts and floods damage the crops to an extent of 60-80% indifferent areas. The productivity of rainfed agriculture is low mainly due to erratic distribution of rainfall. Hence, rainwater harvesting, and its management assume importance in minimizing risk and stabilizing productivity. Water harvesting is one of the key components of successful rainfed farming in semi-arid regions. Harvesting surplus runoff in dug out ponds and recycling the same for providing supplemental irrigation to kharif crops or pre-sowing irrigation to rabi crops has proved to be the most successful ecologies for adoption. Water harvesting becomes even more relevant now in view of the recent increase in the extreme events where in heavy rainfall is occurring in few days followed by long dry spells. Under such circumstances, the only answer is harvesting the surplus runoff during high rainfall events and using the same during dry spells for critical irrigation. The Planning Commission in the XII Plan strategy has highlighted the importance of rainwater harvesting and supplemental irrigation as a key strategy for climate resilient agriculture. Irrigation water and soil moisture plays a critical role in agriculture production system. To secure water, ponds are being constructed to harvesting rainwater. 29 Ponds with a storage potential of 3.04 MCFT. The water stored will have the potential to provide support irrigation for 48 ha. Apart from perennial cropping and fish rearing, these ponds will help the farmers in increasing their household income by duck rearing, kitchen garden on bunds and plantation of fruit bearing plants/trees on bunds. Thus, this intervention will not only increase the farmer's income but will also promote nutrition security for his family members.

## EDUCATION

### I. PRE-MATRIC COACHING PROGRAM:

- In FY 24-25, we have successfully run the pre-matric coaching classes since Aug,24 to till date for the students of class -VI to Xth at 25 centres located in both Jamadoba & Sijua areas (JMB-15 centres + Sijua-10 centres). Total coverage of the students under this program- 3100.
- An eight-month pre-Matric coaching provided by Tata Steel Foundation to 514 students of Class- X in Jamadoba last year has yielded remarkable results in the Jharkhand Academic Council's Annual Secondary Board Examination this year. As per the JAC board, results declared in April 24, **total 513 students got successful out of 514 appeared students in the board exam. (passing %-99.81)**
- **Of the 513 successful students** who underwent the pre-Matric coaching by the Tata Steel Foundation, **170 students have scored 75 % marks & more than 75% (Distinction)** and **404 students have scored 1<sup>st</sup> division, 104 students have scored 2nd division & 05 students have scored 3rd division.**

### II. JYOTI FELLOWSHIP PROGRAM:

- School level merit tests of Jyoti fellowship were conducted during Sep-Dec 24 both at our leasehold areas (JMB & Sijua) & at Tundi areas. **Total 668 SC/ST students** belonged to both the leasehold & Tundi areas took the school level JF Merit Tests being conducted by the WE Jamadoba.
- **On 22 Sep`24**, the school level JF-merit tests were conducted at Jamadoba & Sijua locations. Total no of students registered **-274**, Total no of students took the merit test **-271** (at Jmb-156 & at Sijua-115), Total absentees- **03**.
- **On 22 Dec`24**, the school level JF-merit tests were conducted at Purvi Tundi & Tundi locations Total no of students registered **-426**, Total no of students took the merit test **-397** (at P. Tundi-197 & at Tundi-200), Total absentees- **29**.
- **In March,25** (dt on 11th & 18th March,25), fresh Jyoti fellowship Awardees of this year belonged to our leasehold areas & Tundi areas were felicitated by giving away their certificates & school bags .
- **Based** on the merit tests of this year, total 199 candidates (Class VII - 195 (leasehold areas- 158 + Tundi area - 37) were successful. In addition to this, we have 04 fresh P.G. candidates (Sijua -03 + Tundi -01) .Therefore, this year, total 875 candidates (both fresh -199 + 676 renewal) are eligible to get the Jyoti fellowship. The total fellowship amount that will be disbursed to these JF awardees are Rs 74, 56,000.

Detail breakup of the JF candidates (2024-25)																										
Class	JAMADOBA					SIJUA					TUNDI					EAST TUNDI					Calculation					
	Male	Female	SC	ST	Total	Male	Female	SC	ST	Total	Male	Female	SC	ST	Total	Male	Female	SC	ST	Total	No. of Awardee	Scholarship Amount	Total			
VII (Fresh)	54	73	116	11	127	9	22	30	1	31	7	15	10	12	22	2	13	3	12	15	195	6,000.00	11,70,000.00			
VIII (Renewal)	39	64	96	7	103	41	47	78	10	88	49	79	30	98	128	39	58	24	73	97	416	6,000.00	24,96,000.00			
IX (Renewal)	12	33	40	5	45	27	38	62	3	65					0					0	110	9,000.00	9,90,000.00			
X (Renewal)	9	13	20	2	22	6	15	21	0	21					0					0	43	9,000.00	3,87,000.00			
XI (Renewal)	1	6	7	0	7	7	9	16	0	16					0					0	23	18,000.00	4,14,000.00			
XII (Renewal)	9	9	17	1	18	12	8	19	1	20					0					0	38	18,000.00	6,84,000.00			
Graduation -II (Renewal)	2	5	6	1	7	2	9	11	0	11	3	15	1	17	18					0	36	25,000.00	9,00,000.00			
Graduation-III (Renewal)					0	1	8	9	0	9					0					0	9	25,000.00	2,25,000.00			
P.G-I (Fresh)					0	0	3	2	1	3	0	1	0	1	1					0	4	30,000.00	1,20,000.00			
B.Ed. II (Renewal)					0	1	0	1	0	1					0					0	1	70,000.00	70,000.00			
Total	126	203	302	27	329	106	159	249	16	265	59	110	41	128	169	41	71	27	85	112	875	GRAND TOTAL =	74,56,000.00			
	Male -		332			SC -		619			JAMADOBA -		329			TUNDI -		169								
	Female -		543			ST -		256			SIJUA -		265			EAST TUNDI -		112								

### III. CHILD LEARNINGPROGRAM:

- **02 NFE centres** (Learning centres for the children (classes pre-primary & Std-I to Vth) were run successfully at Digwadih 12 No named as `` **Asha ki Kiran Study Centre** with 55 children & one at **Lower dungri village – OCP area** with 45 children. Total strength of the children was -100.
- **Study materials and Stationary items** have been distributed at **Asha ki Kiran Study Centre**.

### IV. GREEN SCHOOL INITIATIVE:

**Under the Green School Initiative – Phase –VII** -04 new schools (*i.e. Mother Teresa Memorial School, Jorapokhar, Royal High School, Jorapokhar, SSNMS High School, Azad Sijua -12 no & Fagu Mahato High School, kapuriya*) were included under this project. Thus, the total coverage of Green Schools of Jharia location are **12 (Experienced -04 + Early -08)**. Under this initiative, various activities/program(s)/workshops etc were undertaken/organized by the respective schools & by the TERI team too around various environmental themes/issues viz., waste, water, energy & biodiversity etc. Some of the notable activities/program(s) /projects which were undertaken this year.

- All the 04 experienced schools have organized the activities/rallies etc during the occasion of **Swatchhta Abhiyan (Sept-Oct,24)**, Plantation of saplings at various occasions, celebration of World Earth Day, Biodiversity Day & the World environment day etc
- As part of the **Van Mahotsav** celebration in July –Aug` 24, the green schools of Jharia have engaged themselves in raising the awareness about the benefits of trees and encourage the communities/people to become more sensitive & active towards environmental conservation efforts. This initiative aimed to contribute to the ongoing efforts to green the local community and promote sustainable practices. 08 schools (viz., TATA DAV Jamadoba, DAV Model School, CFRI, DAV Public School, Alkusa, Govt Middle School, Putki, M.T.M.S, Rampur, UHS, Petiya, Royal High School, Jorapokhar & SSNMS School, Sijua 12) have observed this program by way of organizing the plantation activities, poster making competition & the nukkad natak around the environmental issues etc. Besides the participation from the school- children & teachers in these prog(s), the community members & the parents also took part in these program(s). During these prog(s), total no of saplings planted - 188, total no of children participation – 1579 & total participation by the community members/parents -576
- On the occasion of **Akshay Urja Diwas (dt 20th August ,24)**, **03** Green Schools of Jharia location viz., TATA DAV School, Jamadoba, DAV Public School, Akusa & Sanskriti Vidya Mandir –Digwadih -10 have observed this day by



way of organizing multiple activities & prog(s) viz., Speeches, Quiz, Pledge, Act play , showcasing of innovative projects/models being developed by the students themselves etc.Total no of children participated in such prog(s)- 1712 total no of teachers –participation were -63

- During **11th-14th Sept 24** –The TERI team has conducted the **BeEcomatic workshops at the Early Schools of Jharia location**. The lists of schools included SSNMS High School, Azad Sijua, Fagu Mahato High School, Kapuria, Mother Teresa Memorial School, Jorapokhar, Royal High School, Jorapokhar, UHS Waterboard, Petiya, Govt Middle School, Putki & MTMS, Rampur. The workshops saw the enthusiastic participation of total 483 students, 44 teachers and 13 community members.
  - The students were also engaged in various **innovative/creative projects** such as – (i) Setting up of **traditional water-filtration Units** at DAV Public School, Alkusa & Govt Middle School, Putki (ii) The students of MTMS, Rampur have engaged in the **formulation of bio-enzymes** (iii) The students of Sanskriti Vidyamandir, Digwadih no. 10 were engaged in the projects like :- **making plastic ropes from the waste plastic materials ,compost making by using green wastes , book binding made from the old clothes & old calenders , bottle cover made from jute fibre & Old bag planter (for growing plants )** .
  - The students at DAV Model School, CFRI have **distributed thehomemade cloth bags** amongst the local communities during the **awareness program on ``No use plastic ``**.
  - 32 students at DAV model School, CFRI (class 6,7 & 8) took the **Green Olympiad Exam** being conducted by the TERI on Nov 24
  - **07 teachers** from the Green Schools of Jharia along with 01 from Jamadoba officials took part at the **Teachers workshop being held at West Bokaro** during 27th-28th Nov,2024
  - The **World Sustainable Development Summit (WSDS)** as organized by the TERI during 4th-5th March`25 at India Habitat Centre, Delhi was attended by the students & teachers belonged to 04 Early schools of Jharia location i.e. **SANSKRITI VIDYA MANDIR, DIGWADIH NO -10, GOVT MIDDLE SCHOOL -PUTKI, ROYAL HIGH SCHOOL, JORAPOKHAR & U.H.S, WATERBOARD, PETIYA**. Total no of participants from our location were – 09 (Students -04, Teachers -04 & from Jamadoba unit -01).
- At the WSDS event, a teacher named Mr. Dhananjay Kumar Chaturvedi from Sanskriti Vidya Mandir School was one of the key Speakers for the panel discussion titled ``**Environmental Education for a Greener Future``**.

## SKILL DEVELOPMENT

### (I) COMMUNITY YOUTH COACHING PROGRAM FOR THE UNIFORMED SERVICES:

- Have successfully run the ``Community Youth Coaching Program for the Uniformed services `` both at Jamadoba & Sijua areas respectively since April`24 with 64 candidates. Through this program, **total 07 candidates** have successfully cleared the competitive exams of SSC-GD & Agniveer exam. **Five (05) candidates from Sijua centre:** - – **1. Ms Saloni Kumari** (Pasitand village) got finally selected at **CISF** by clearing the entrance exam of SSC- GD (2023), **2. Mr Nitish Kumar** (Pasitand village) **3. Mr Anand Kumar** (Pasitand village) have finally selected at **ITBP** by clearing the entrance exam of SSC- GD (2023) **4. Mr. Jaishek Kumar Singh** (Gajlitand) & **5. Mr Soubhik Mukherjee** (Malkera) have finally selected for the post of **Agniveer-Army** by cracking the entrance –exam of Agniveer held in this year.
- **Two (02) candidates from JMB centre:** - **1. Mr Aditya Kumar Jaiswal** (Dumri no, JMB)-got selected at **Indian Air Force as Agniveervayu**. **2. Ms Mahima Choudhary** (Dumri no-4, JMB) got selected at **Assam Rifles as Constable (GD)**

## **(II) PREPARATORY COACHING PROGRAM FOR THE NURSING ENTRANCE EXAM (35 days):**

- **Six (06) female candidates** have cracked the nursing entrance exam of Jharkhand (held in Sep`24). The successful candidates are :- (i) **Ms Jyoti Kumari (qualified for G.N.M.)** (ii) **Ms Vandana Kumari (qualified for A.N.M)** (iii) **Ms Kajal Kumari (qualified for A.N.M)** (iv) **Ms Uma Kumari (qualified for A.N.M)** (v) **Ms Ankita Singh (qualified for A.N.M)** & (vi) **Ms Sonali Kumari (qualified for A.N.M)**

## **(III) PLACEMENT DRIVES FOR THE LOCAL YOUTHS BY THE MODEL CAREER CENTRE, Jamshedpur:**

- Towards hiring the local youths for meaningful jobs at various companies or organizations, the placement drives were conducted thrice at our location by the MCC, Jamshedpur. The interviews were conducted for the job hirings at: - (i) Wistron Ltd, Bangalore & (ii) CEAT, Chennai & (iii) McDonald`s etc. Till date, the final placement status of the local youths is here as under. **Wistron Ltd, Bangalore – 20 candidates (1<sup>st</sup> batch- Sept`24)** (ii) **McDonald`s – 10 candidates at Dhanbad location (out of total 17 selection)** (iii) **Wistron Ltd, Bangalore – 12 candidates (2<sup>nd</sup> batch- Jan`25)**

## **ETHNICITY**

### **(I) RUNNING OF TRIBAL LANGUAGE CENTRE ( `Ol-chiki script) FOR THE LOCAL TRIBAL GROUP**

- Successfully running the **`Ol-chiki language class centre** for the Santali tribes since Aug`24 with 40 candidates at Bhelatand Majhi tola.

### **(II) SUPPORT TO THE LOCAL COMMUNITIES FOR THE CELEBRATION OF TRADITIONAL FESTIVALS & FOR THE COMMEMORATION OF THE BIRTH ANNIVERSARY OF TRIBAL HEROES/LEADERS ETC**

- Supported the local communities for the **celebration of Karma Festival in Sep 24** at **07 places** viz., Jorapokhar, Parsia, Sijua , Sijua no-6 , Topchanchi, Lalbunglow & Bhowra . Around 6,000 people took part in the program(s) being organized on this occasion at different places.
- **Celebration of Birsa Munda Jayanti** by the tribal community of **Bhowra-Parsiabad** village dt on **15th Nov-24**. To mark this occasion, a variety of program(s) was organized. Around 500 people including children took part in these program(s)
- Supported the local communities for the **celebration of Sohrai & Tusu festivals (during 08<sup>th</sup> Jan- 14<sup>th</sup> January `25)** at **following places**: -Lalbunglow (ii) Sijua 12 no (iii) Topchanchi block (**02 locations** i.e. Madaidih School & Dhangri village) & Tundi block covering 06 panchayats i.e. Ratanpur, Machhiyara, Fatehpur, Begnaria ,Tundi & Barwatand . Around 10,000 people took part in the various program(s) being organized on this occasion at different places.