



TSL/FAMD/SAR/FY26/3336

Date: 18-11-2025

To,

The Member-Secretary,

State Level Environment Impact Assessment Authority (SEIAA), Odisha,  
5RF-2/1, Acharya Vihar, Unit – IX, OPTCL Colony,  
Anand Bazar, Bhoi Nagar, Bhubaneswar, Odisha 751022

**Subject:** Submission of half-yearly compliance report on the stipulated environmental clearance terms and conditions in respect of Saruabil Chromite Block of M/s Tata Steel Limited, for the period March 2025 to Sept 2025 to SEIAA, Odisha, MoEF&CC, & IRO, CPCB & SPCB, Odisha.

**Reference:**

- 1) MoEF EC Letter Identification No. EC23B001OR155576, File No. 78946/93-MINB1/07-2022,
- 2) MoEF&CC's notification vide S.O-5845, dt. 28<sup>th</sup> Nov 2018

**Respected Sir,**

We are herewith submitting the six-monthly compliance report on the status of the implementation of conditions stipulated in environmental clearance in favor of Saruabil Chromite Block of M/s Tata Steel Limited vide SEIAA EC Letter Identification No. EC23B001OR155576, Dated 06.06.2023, for the period from March 2025 to Sept 2025 for your kind perusal.

This is in reference to the MoEF&CC's notification vide S.O-5845, dt. 28<sup>th</sup> Nov 2018 and as per the Miscellaneous EC condition number (III), VII) & (IX), the online submitted six-monthly compliance report with required annexures is being submitted through e-mail to @ roez.bsr-mef@nic.in, seiaaodisha@gmail.com and Hard copy to SEIAA, Odisha, MoEF&CC, & IRO, CPCB & SPCB, Odisha.

We believe the above submission is in order.

Thanking You.

Yours faithfully,

f: Tata Steel Limited

Agent,

Saruabil Chromite Block

**Copy to:**

1. Dy. Director General, Integrated Regional Office, Ministry of Environment and Forest & Climate Change, Eastern Region Office, A/3, Chandrasekharapur, Bhubaneswar-751023
2. The Regional Directorate, Central Pollution Control Board, 'South end Conclave' Block-502, 5th & 6th Floor, 1582, Razidanga, Main Road, Kolkata- 700107
3. Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Bhubaneswar, 751012.

**TATA STEEL LIMITED**

Ferro Alloys & Minerals Division | Saruabil Chromite Mine | Kalarangiatta | Jajpur | Odisha-755028

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**Half Yearly Compliance Report****2025****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

<b>Proposal Name</b>	Saruabil Chromite Block (ML Area: 246.858 Ha) with a production of 1.0 MTPA Chromite Ore (ROM) with maximum excavation of 6.48 Million Cum per Annum through Opencast Mining at villages Saruabil, Kamarda, and Tailangi under Sukinda Tehsil, Jajpur District of Odisha State.				
<b>Name of Entity / Corporate Office</b>	Tata Steel Limited				
<b>Village(s)</b>	BALIPADA				
<b>District</b>	JAJAPUR				
<b>Proposal No.</b>	SIA/OR/MIN/78946/2020	<b>Category</b>	Non-Coal Mining		
<b>Plot / Survey / Khasra No.</b>		<b>Sub-District</b>	Kaliapani		
<b>State</b>	ODISHA	<b>Entity's PAN</b>	*****2803M		
<b>MoEF File No.</b>	78946/93-MINB1/07-2022	<b>Entity name as per PAN</b>	UTSAV KASHYAP		

**Compliance Reporting Details****Reporting Year** 2025**Remarks (if any)****Reporting Period** 01 Dec(01 Apr - 30 Sep)**Details of Production and Project Area****Name of Entity / Corporate Office** Tata Steel Limited

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	0	0
Revenue Land	5.088	5.088
Forest	241.77	241.77
Others	0	0
Total	246.858	246.858

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Chromite Ore (ROM)	Million Tons per Annum (MTPA)	31/03/2027	1	.207478	0.6

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The proposal involves a lease area of 246.858 ha comprising of 241.77 Ha Forest land and 5.088 ha non-forest land. Forest clearance (FC) has been accorded in favor of the previous lessee over an area of 224.63 Ha by MoEFCC on dated 16.01.1997. The application for remaining for forest land i.e. 17.14 ha is yet to be accorded. The lessee has paid NPV for the entire forest land of area 241.77 ha. This EC will be restricted to 229.718 ha (224.63 ha stage-II FC available plus 5.088 Ha an on -forest land)), mining activity will be restricted to non-forest land and the area for which stage-II FC is available.
<b>PPs Submission:</b> Complied Mining operation is restricted to 229.718 ha (224.63 ha stageII FC available and 5.088 Ha non-forest land). Diversion of 17.14 ha of Sabik forest land is under progress and MoEFCC has accorded in Project Screening Committee 1. DFO, Cuttack has completed the site visit and Part II compilation under progress.		Date: 13/11/2025
2	Statutory compliance	The production of Chromite ore - 1.0MTPA from the already diverted forest land (229.718 Ha), subject to the permission from the Indian Bureau of Mines (IBM), for the period of 1(One) year from the date of EC granted.
<b>PPs Submission:</b> Complied The mining activities are being carried out within the diverted and non-forest land i.e. 229.718 ha (224.63 ha stage II FC available and 5.088 Ha) only. Diversion of 17.14 ha of Sabik forest land is under progress. The Mining plan has been approved by Indian Bureau of Mines (IBM) vide letter No. RMP 2328/2024-25-IBM RO BBS dated 17.01.2025 to produce ROM at 1.0 MPTA up to 2030.		Date: 13/11/2025
3	Statutory compliance	The Forest Clearance (FC) clearance issued in favor of the previous lessee shall have to be transferred in the name of Ms. Tata Steel Mining Ltd. within a period of 1(One) year from the date of EC granted.
<b>PPs Submission:</b> Being Complied Forest Clearance (FC) has been accorded over an area of 224.63 ha by MoEFCC on 16.01.1997. The FC application for the remaining forest land i.e 17.14 Ha has been applied to MoEFCC vide proposal no. FP/OR/MIN/QRY/448403/2023 dated 18.10.2023 and it is progress. We have also paid NPV for the entire forest land of area 241.773ha. We have already applied the FC transfer application with requisite fee vide letter No. TSML/MD/2290/FY22, dated 20th Dec 2021 to DFO, Cuttack.		Date: 13/11/2025
4	Statutory compliance	Grant of CTO after One year shall be subject to transfer of DC for 224.63 Ha in the name of M/s. Tata Steel Mining Ltd. and obtaining fresh FC for 17.14 ha.
<b>PPs Submission:</b> Being Complied As mentioned, we have already applied for the transfer application with requisite fee vide letter No. TSML/MD/2290/FY22, dated 20th Dec 2021 to DFO Cuttack for transfer of stage II FC. The FC application for the remaining forest land i.e 17.14 Ha has been applied to MoEF and CC and it is in process.		Date: 13/11/2025
5	Statutory compliance	The mine shall explore implementation of membrane-based technology for removing hexavalent chromium from Surface run off and mine drainage water.

<b>PPs Submission:</b> Complied The demo experiment for removing hexavalent chromium were performed, but the results are not so efficient (only 70 percent of Cr(VI) removal and high maintenance cost) due to high TSS in mine water.		Date: 13/11/2025
6	WATER QUALITY MONITORING AND PRESERVATION	The mine shall take adequate measures to minimize the discharge of treated water to Damsala nallah and take appropriate measures to prevent pollution of the Damsala Nallah in consultation with the SPCB.
<b>PPs Submission:</b> Complied We maximize the use of treated water for sprinkling, Plantation, Irrigation and Domestic use to ensure minimum discharge into Damsala Nallah.		Date: 13/11/2025
7	Risk Mitigation and Disaster Management	The project proponent shall monitor analysis of hexavalent chromium in nearby soil and water body periodically and follow mitigation measures, if necessary.
<b>PPs Submission:</b> Complied We are regularly monitoring the hexavalent chromium in nearby water body and soil. Monthly report is submitted to OSPCB.		Date: 13/11/2025
8	Corporate Environmental Responsibility	The budget of Rs. 144.65 Lakhs allocated towards CER/ to be completed within 3 years from the date of start of mining operations as proposed. PP shall also comply at I action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. Further, the PP shall at so comply all activities listed in CSR activities, as proposed.
<b>PPs Submission:</b> Being Complied As per the company Annual Business Plan, we have taken year wise targets from April 2024 to complete within 3years. For current year, following activities were conducted: Providing Bus for High Schools Providing Ambulance Health Camp organization Construction of Water conservation and recharge structure Plantation drive Construction of Amenity Centre for Truck Driver Providing Defensive driving training programmes Establishment of Computer lab in High Schools		Date: 13/11/2025
9	Corporate Environmental Responsibility	The amount proposed under Corporate Environment Responsibility (CER) head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and details of implementation of CER activities along with proof of activities viz. photographs (before and after with geo-location date and time), purchase documents, photographs and Geo-location of the infrastructures/ facilities developed, etc. to the Regional Office of MoEFCC, Bhubaneswar and SEIAA, Odisha before 1st July of every year for the activities carried out during previous year.
<b>PPs Submission:</b> Complied Funds for CER activities are being tracked. The details of fund invested for CER for work carried for FY25 have been submitted to MoEFCC, Bhubaneswar and SEIAA, Odisha vide letter no. TSL/FAMD/SAR/FY26/2747 and TSL/FAMD/SAR/FY26/2750 respectively.		Date: 13/11/2025
10	Human Health Environment	The amount (except occupational health) proposed under Environmental Management Plan (EMP) head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and detailed environment monitoring report along with proof of activities viz. photographs (before and after with geo-location date and time), purchase documents, sampling reports, photographs and Geo-location of the infrastructures/facilities developed, details of persons engaged in



		Environment Management Cell etc. to the Regional Office of MoEFCC, Bhubaneswar and SEIAA, Odisha before 1st July of every year for the activities carried out during previous year.
<b>PPs Submission:</b> Complied A dedicated cost Centre for maintaining all environmental expenditure is maintained in a separate GL account having a unique cost centre mapped in the SAP system. All sorts of environmental protection related expenditures are booked in the said cost centre for accounting purpose. The audited statement of FY25 for the cost centre with environmental management activities and environmental monitoring report have been submitted to Regional Office of MoEFCC, Bhubaneswar and SEIAA, Odisha vide letter no. TSL/FAMD/SAR/FY26/2747 and TSL/FAMD/SAR/FY26/2750 respectively.		Date: 13/11/2025
11	Human Health Environment	The amount proposed under Occupational Health plan head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and detailed environment monitoring report along with proof of activities viz. photographs (before and after with geo-location date and time), purchase documents, sampling reports, photographs and Geo-location of the infrastructures/facilities developed, details of persons engaged in Environment Management Cell etc. to the Regional Office of MoEFCC, Bhubaneswar and SEIAA, Odisha before 1st July of every year for the activities carried out during previous year.
<b>PPs Submission:</b> Complied Cost centre-based SAP system for tracking our finances have been implemented and the system is audited regularly. The audited statement of FY25 for the cost centre with environmental management activities and environmental monitoring report have been submitted to Regional Office of MoEFCC, Bhubaneswar and SEIAA, Odisha vide letter no. TSL/FAMD/SAR/FY26/2747 and TSL/FAMD/SAR/FY26/2750 respectively.		Date: 13/11/2025
12	GREENBELT	The PP shall undertake the adequate plantation in peripheral zone as well as gap plantation with the seedling of 6-8ft height with at least 90 percent survival rate to control the dust at source and should be completed within 3 years from the date of commencement of mining operations. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year.
<b>PPs Submission:</b> Complied 7.5 meters wide safety zone plantation is being maintained all around the mine lease. The adequate plantation in peripheral zone (safety zone) as well as gap plantation with the seedling of 6-8ft height with at least 90 percent survival rate will be done to control the dust at source. The plantation will be completed within 3 years from the date of commencement of mining operations. Casualties of the previous year will be replaced other than the saplings proposed to be planted every year.		Date: 13/11/2025
13	Statutory compliance	The proponent shall comply all the specific conditions as recommended by CSIR-NEERI in time bound manner as applicable for the project.
<b>PPs Submission:</b> Complied Applicable specific conditions as recommended by CSIR-NEERI are being complied in time bound manner.		Date: 13/11/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining

		operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and SEIAA, Odisha is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
<b>PPs Submission:</b> Complied NOC for ground water abstraction has been obtained with order no. CGWA/NOC/MIN/ORIG/2024/21019 valid up to 25/11/2026.		Date: 13/11/2025
2	Statutory compliance	This Environmental Clearance (EC) is subject to orders/ judgment of Hon ble Supreme Court of India, Hon ble High Court, Hon ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
<b>PPs Submission:</b> Agreed to Comply Agreed		Date: 13/11/2025
3	Statutory compliance	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining and Geology in strict compliance of Judgment of Hon ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India and Ors.
<b>PPs Submission:</b> Agreed to Comply Agreed		Date: 13/11/2025
4	Statutory compliance	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEFCC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
<b>PPs Submission:</b> Complied As per the previous stage -II forest clearance, The NBWL Clearance is not required for this project. The NOC was obtained by previous lessee and same is attached as Annexure I.		Date: 13/11/2025
5	Statutory compliance	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, as applicable to the project.
<b>PPs Submission:</b> Complied Mining operation is restricted to 229.718 ha (224.63 ha stage-II FC available and 5.088 Ha non-forest land). Application has already been submitted for diversion of balance forest land of 17.14 ha to MoEFCC.		Date: 13/11/2025
6	Statutory compliance	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board.
<b>PPs Submission:</b> Complied Consent to Establish was obtained vide Order No. 10964/IND-II-CTE-6887, dated 12.07.2023 and Consent to Operate has been obtained vide order No. 5674/IND-I-CON-220, dated 24.03.2025 from State Pollution Control Board.		Date: 13/11/2025
7	Statutory compliance	The PP shall adhere to the provision of the Mines Act, 1952, Mines

		and Mineral (Development and Regulation), Act, 2015 and rules and regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
<b>PPs Submission:</b> Complied Applicable rules and regulation of Mines Act, 1952, Mines and Mineral (Development and Regulation) Act, 2015 are being complied. We are also complying to various circulars of Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.		Date: 13/11/2025
8	Statutory compliance	The Project Proponent shall obtain consents from all the concerned landowners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
<b>PPs Submission:</b> Being Complied Majority of the lease area is under forest and only 5.088 Ha non-forest land. No patta land is residing within the mine lease area and Lease deed with land schedule is approved by Govt.		Date: 13/11/2025
9	Statutory compliance	The Project Proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area.
<b>PPs Submission:</b> Being Complied Necessary precaution and best mining practices are being followed to reduce impacts on nearby villagers.		Date: 13/11/2025
10	Statutory compliance	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of groundwater for the project.
<b>PPs Submission:</b> Complied NOC has been obtained for ground water abstraction with order no. CGWA/NOC/MIN/ORIG/2024/21019 valid up to 25/11/2026.		Date: 13/11/2025
11	Statutory compliance	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
<b>PPs Submission:</b> Complied Copy of EC letter was submitted to concerned Panchayat, Zilla Parishad and Block Development Officer vide letter nos. TSL/SAR/061/FY24/01, TSL/SAR/061/FY24/03, TSL/SAR/061/FY24/04 from whom suggestion / representation has been received while processing the proposal.		Date: 13/11/2025
12	Statutory compliance	State Pollution Control Board shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collectors office/ Tahasildars Office for 30 days.
<b>PPs Submission:</b> Complied Copies of the EC letter were also submitted to State Pollution Control Board, its Regional office, District Industries Centre and Collector office/ Tahasildar Office for display vide letter nos. TSL/SAR/061/FY24, TSL/SAR/061/FY24/05 and TSL/SAR/061/FY24/06.		Date: 13/11/2025
13	Statutory compliance	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area.

		The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
<b>PPs Submission:</b> Complied The EC approval was published in two local newspapers, The Pagatibadi (Oriya daily) and The Pioneer, Bhubaneswar (English daily) on 10.11.2023. The advertisements were done mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ).		Date: 13/11/2025
14	Statutory compliance	The Project Proponent shall inform the MoEFCC/SEIAA, Odisha for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
<b>PPs Submission:</b> Agreed to Comply As per the Scheme of Amalgamation of Tata Steel Mining Limited (TSML CIN No. U27109OR2004PLC009683) into and with Tata Steel Limited (CIN L27100MH1907PLC000260) (Scheme of Amalgamation), and its approval and sanction by the Honorable National Company Law Tribunal, Cuttack Bench vide Order (NCLT Order), in terms of Clause 8.1 read with Clause 9.1(h) of Part I of the Scheme of Amalgamation, the captioned Scheme of Amalgamation of Tata Steel Mining Limited (TSML) into and with Tata Steel Limited has become operative and effective from September 1, 2023 (Effective Date). The name change of the EC letter has been accorded by MoEFCC.		Date: 13/11/2025
15	AIR QUALITY MONITORING AND PRESERVATION	The Project Proponent shall monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SOx etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main gate of the mine site.
<b>PPs Submission:</b> Complied Monitoring of relevant AAQ parameters is being done as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 in the impact zone. The data is being submitted to Board on monthly basis and displayed in digital display board in front of the main gate of the mine site.		Date: 13/11/2025
16	AIR QUALITY MONITORING AND PRESERVATION	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

<p><b>PPs Submission:</b> Complied</p> <p>Regular water sprinkling is being carried out with water tanker and fixed sprinkling in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. 500 mtrs length of fixed sprinkling has already been installed along major haul roads. Use of suitable water-soluble chemical dust suppressing agents will be explored for better effectiveness of dust control system. Air pollution level are conforming to the standards prescribed by the MoEFCC/ Central Pollution Control Board.</p>		<p>Date: 13/11/2025</p>
17	<p><b>WATER QUALITY MONITORING AND PRESERVATION</b></p>	<p>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 maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The water table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board.</p>
<p><b>PPs Submission:</b> Complied</p> <p>Regular monitoring of the flow rate of the Damsala nallahs flowing north side of the mine lease is being carried out and records are being maintain. No natural water bodies or streams which are flowing in an around the mine lease are being disturbed. In case of any water scarcity in the area, we provide water to the villagers for their use. Regular monitoring of ground water table is being carried out by installation of piezometers. The Report on changes in Ground water level and quality is being submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board.</p>		<p>Date: 18/11/2025</p>
18	<p><b>WATER QUALITY MONITORING AND PRESERVATION</b></p>	<p>Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.</p>
<p><b>PPs Submission:</b> Complied</p> <p>Regular monitoring of ground water table is being carried out by installation of piezometers. The Report on changes in Ground water level and quality is being submitted on six-monthly basis to the Integrated Regional Office of the Ministry and State Pollution Control Board.</p>		<p>Date: 18/11/2025</p>
19	<p><b>WATER QUALITY MONITORING AND PRESERVATION</b></p>	<p>Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no -obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of SEIAA, Odisha. The monitoring of water courses/ bodies existing lease area shall be carried out four times in a year viz. pre- monsoon (April-May), mansoon (August),</p>

		post-monsoon (November) and winter (January) and the record of monitored data be sent regularly to the Integrated Regional Office, Bhubaneswar of MoEFCC, Gol, SEIAA, Odisha, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
<b>PPs Submission:</b> Complied Regular monitoring of the flow rate and quality (upstream and downstream) of the Damsala nallahs flowing north side of the mine lease is being carried out and records are maintained. The natural water is not disturbed. Regular monitoring of pH and other water quality parameters are being analysed and reported monthly. The trend analysis of water quality parameters is being submitted on six-monthly basis to the Integrated Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board on six-monthly basis.		Date: 18/11/2025
20	WATER QUALITY MONITORING AND PRESERVATION	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in run-off shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1 /2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
<b>PPs Submission:</b> Complied The water quality parameters such as Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in run-off shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS) are being analysed for the effluent generated from mining operations and treated. The monthly average data is being displayed in display board near the main gate and six monthly in website.		Date: 18/11/2025
21	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall construct retaining wall and settling pond within the lease area. Further, check dams shall be constructed at strategic locations in which rainwater passes in rainy season. Finally, the excess supernatant after sedimentation shall be allowed to spill away through stone pitch structure to the nearby valley.
<b>PPs Submission:</b> Complied Retaining wall, garland drain, settling pit and check dams are constructed as per approved mining plan for management of dump and surface run-off. The run-off is being guided through concrete drain to the Central Effluent Treatment Plant for treatment and discharge during rainy season.		Date: 13/11/2025
22	WATER QUALITY MONITORING AND PRESERVATION	De-silting of agricultural lands in buffer zone and beyond including nearby Nalas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps shall be done as per SOP submitted. Retaining wall shall be constructed to ensure that no silt after wash up is escaped from the core / buffer zone of the mines.
<b>PPs Submission:</b> Complied No spill over or wash-up material is dumped in nearby nalla/river. The drain is de-silted before monsoon period every year.		Date: 13/11/2025
23	WATER QUALITY MONITORING AND PRESERVATION	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Integrated Regional Office, MoEFCC as a part of compliance in the six monthly compliance report.

<b>PPs Submission:</b> Complied We have constructed two rooftop rain water harvesting structures for ground water recharge. The details of water recharged is attached as annexure II.		Date: 18/11/2025
24	WATER QUALITY MONITORING AND PRESERVATION	Industrial wastewater (workshop and waste water from the mine) should be properly collected and treated in an ETP as proposed so as to conform to the notified standards prescribed from time to time, as applicable. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
<b>PPs Submission:</b> Complied Contaminated water is being treated in ETP before discharge. The wastewater from workshop is recycled for washing purpose after treatment through oil and sediment separation.		Date: 13/11/2025
25	WATER QUALITY MONITORING AND PRESERVATION	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEFCC and State Pollution Control Board.
<b>PPs Submission:</b> Complied Water audit has been conducted by TERI, New Delhi, Implementation of its recommendations has been done		Date: 13/11/2025
26	Noise Monitoring & Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
<b>PPs Submission:</b> Complied Blast induced vibration and peak particle velocity study has been conducted by NIT, Rourkela and the recommendations are being complied.		Date: 13/11/2025
27	Noise Monitoring & Prevention	The illumination and sound at night at project sites 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. PPs 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 /night hours.
<b>PPs Submission:</b> Complied Biological clock of the villages is not disturbed with limited night operation and by orienting the floodlights/ masks only in the mining operation areas at night. Schedule maintenance of the HEMM is being carried out to reduce noise and continuous monitoring is being done at night.		Date: 13/11/2025
28	Noise Monitoring & Prevention	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The worker engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.
<b>PPs Submission:</b> Complied Ear plug/muffs and respiratory masks are being provided to workers working high noise and dust		Date: 13/11/2025



prone areas. It is a general PPE compliance to the Tata Steels safety rules. Schedule maintenance of the HEMM is being carried out to reduce noise and continuous monitoring is being done.			
29	MINING PLAN	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral and waste production, lease area and scope of working (viz. method of mining, overburden and dump management, O.B and dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of competent authority which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.	
<b>PPs Submission: Complied</b> We have adhered to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden etc. No change in basic mining proposal like mining technology, total excavation, mineral and waste production, lease area and scope of working (viz. method of mining, overburden and dump management, O.B and dump mining, mineral transportation mode, ultimate depth of mining etc.) are same as per the mining plan. If any modification in mining plan will be carried out and same will be approved by IBM, the approved modified mining plan will be submitted, and prior approval will be obtained from Ministry.			Date: 13/11/2025
30	MINING PLAN	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining and Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	
<b>PPs Submission: Agreed to Comply</b> We will submit the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining and Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan will be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.			Date: 13/11/2025
31	MINING PLAN	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the concerned Integrated Regional Office, Bhubaneswar of MoEFCC, Gol.	
<b>PPs Submission: Agreed to Comply</b> The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life is being governed as per the approved Mining Plan. The mature mined out areas will be backfilled, and rehabilitation measures will be taken until the vegetation becomes self-sustaining. Compliance status of the same will be submitted half-yearly to the concerned Integrated Regional Office, Bhubaneswar of MoEF and CC, Gol.			Date: 13/11/2025

32	LAND RECLAMATION	The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of topsoil/OB dumps. The topsoil shall be used for land reclamation and plantation.
<b>PPs Submission:</b> Complied The overburden is stacked in earmarked areas as per approved mining plan with proper height and slope. The guidelines/circulars issued by D.G.M.S are strictly followed and complied. Year wise reclamation through plantation is being carried out as per approved mining plan.		Date: 13/11/2025
33	LAND RECLAMATION	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
<b>PPs Submission:</b> Complied During mining operation, OB and ROM is produced. Overburden is stacked at earmarked waste dump site(s) only as per approved mining plan. All the safety guidelines are being strictly followed to maintain the stability of waste dumps.		Date: 13/11/2025
34	LAND RECLAMATION	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
<b>PPs Submission:</b> Complied The reclamation is being carried out in a scientific manner as per approved Mining Plan cum Progressive Mine Closure Plan.		Date: 13/11/2025
35	LAND RECLAMATION	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
<b>PPs Submission:</b> Complied The dumps slopes are vegetated with native saplings to maintain the slope stability, prevent erosion and surface run-off as per the direction of local forest department. Proper drainage arrangement has been constructed to channelize the run-off water without forming any gullies. The dump mass is compacted with the help of dozer for proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes etc. will be carried out for stabilization of the dump.		Date: 13/11/2025
36	LAND RECLAMATION	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEFCC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha.
<b>PPs Submission:</b> Complied The slope stability study was carried out by CSIR-Central Institute of Mining and Fuel Research		Date: 13/11/2025

(CSIR-CIMFR) and the report has been submitted in FY 25 H1 EC compliance uploaded in Parivesh Portal.		
37	LAND RECLAMATION	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil / OB / waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
<b>PPs Submission:</b> Complied The catch drains and siltation ponds of appropriate size is constructed around the mine working, mineral and OB dumps to prevent run off water and flow of sediments directly into the river and other water bodies. The drains and settling pits are regularly de-silted by mechanized means and maintained properly. Desilting of garland drains, channels and sedimentation pits is being carried out and will be carried out before and after monsoon season.		Date: 13/11/2025
38	LAND RECLAMATION	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50 percent shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the comers of the garland drains.
<b>PPs Submission:</b> Complied Check dams of appropriate size, gradient and length is constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies as per mining plan. We have kept our non-working quarry as sumps to collect and store the excess water during storm or peak rainfall. However, we have constructed 1200m <sup>3</sup> /hr CETP to treat the water run-off water before discharge.		Date: 13/11/2025
39	LAND RECLAMATION	The topsoil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the topsoil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.
<b>PPs Submission:</b> Complied This mine is a brown field mines and no topsoil generated till date. If any topsoil will generate, same will be stored at earmarked area and will be used for land reclamation and plantation purpose		Date: 13/11/2025
40	LAND RECLAMATION	The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
<b>PPs Submission:</b> Agreed to Comply After ceasing mining operations, we will undertake re-grassing the mining area and any other area to restore the land to a condition which is fit for growth of fodder, flora and fauna etc.		Date: 13/11/2025
41	Statutory compliance	No Transportation of the minerals shall be allowed in case of roads passing through transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and

		dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
<b>PPs Submission:</b> Complied The state highway is passing through the mining lease, and we have applied for diversion of the road o with nodal State Govt. Department with requisite cost for diversion. This road is being used by all other mine owners to transport their material from Sukinda valley. To decrease the pollution load, regular water sprinkling is being done with consultation with Regional officer, SPCB, Kalinganagar. Vehicular emissions are kept under control and regularly monitored. We obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers, which is a part of our vehicle fitness for mining operations.		Date: 13/11/2025
42	AIR QUALITY MONITORING AND PRESERVATION	The Main haulage road within the mine lease should be provided with a permanent water arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.
<b>PPs Submission:</b> Complied Fixed water sprinkler has been installed in 500m and the remaining length of the haul road will be fitted with fixed water sprinkling in phase wise. Additionally, frequent waer sprinkling is also done through tanker-mounted water sprinkling system to suppress the dust emission.		Date: 13/11/2025
43	Statutory compliance	Traffic management shall be done as per recommendation of Traffic Management Study Report.
<b>PPs Submission:</b> Being Complied We have applied for diversion of the state highway road to nodal State Govt. Department with requisite cost for diversion. After diversion, the recommendation of traffic management study report will be implemented.		Date: 13/11/2025
44	Statutory compliance	The Project Proponent shall provide parking plaza for the heavy vehicles within the lease area as per recommendation of NEERI, if applicable to the project
<b>PPs Submission:</b> Complied Parking plaza cum amenity centre has been provided for the drivers and transport vehicles within the lease area as per recommendation of NEERI report.		Date: 13/11/2025
45	GREENBELT	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5

		years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	
<b>PPs Submission: Being Complied</b> About 60 percent of the 7.5m wide safety zone is being maintained all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. Some portion of the safety zone is not maintained due to encroachment of the local people and will be maintained after successful implementation of Odisha State R R policy. About 19,501 nos of local saplings are planted in dump for more survival rate with tree density of 2500 per hectare till Sept 2026. After completion of backfilling in mined out quarries, plantation will be done for reclamation and rehabilitation of the lease area.			Date: 13/11/2025
46	GREENBELT	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	
<b>PPs Submission: Complied</b> About 19,501 nos of local saplings are planted in dump for more survival rate with tree density of 2500 per hectare till Sept 2026. After completion of backfilling in mined out quarries, plantation will be done for reclamation and rehabilitation of the lease area.			Date: 13/11/2025
47	GREENBELT	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	
<b>PPs Submission: Agreed to Comply</b> The entire mine area of 246.858Ha comprises of 241.773.78 Ha of forest land and 5.088Ha non-forest land. No such grazing land have been acquired by the company. In future, if required alternate areas for livestock grazing will be arranged in consultation with the State Government.			Date: 13/11/2025
48	GREENBELT	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wildlife Warden of the State Govt and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	
<b>PPs Submission: Being Complied</b> Conservation measures for protection of flora and fauna in the core and buffer zone are being carried out as per the direction of the local forest and wildlife department. Previous lessee site-specific wildlife management plan is vested to TSL and same will be managed. We are in process for			Date: 13/11/2025

diversion of 17.14 ha of Sabik Forest land and required conservation measures will be taken.		
49	Human Health Environment	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.
<b>PPs Submission:</b> Complied We have appointed Utkal Poly Clinic, Bhubaneswar (An occupational Health Expert Organisation) for the said Job. The health check-up is being carried out on regular basis. The details of health checkup for employees and workers has been attached as Annexure IV.		Date: 18/11/2025
50	Human Health Environment	A commitment in form of an undertaking for periodical occupational health checkup of the employee and the local people shall be done through an occupational health expert as per the detailed action plan submitted with the proposal within 6 months from the date of issue of Environmental Clearance.
<b>PPs Submission:</b> Complied We have established one non-bed dispensary to carry out health check-up program by qualified medical Surgeon on Day to day basis and for providing first-aid to any injury. Tata Steel Foundation conduct medical check-up for nearby community on regular basis.		Date: 13/11/2025
51	Human Health Environment	The Project Proponent must demonstrate commitment to work towards Zero Harm from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to biomass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
<b>PPs Submission:</b> Complied Tata Steel Limited has implemented robust Workplace procedures integrated with safety management standards in its operations for ensuring safe working. An Emergency Management Plan (EMP) is prepared outlining the possible Safety and Health Risk Assessment (HRA) for identification of workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers. Awareness programs on health and sanitation are also regularly conducted.		Date: 13/11/2025
52	Human Health Environment	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn)

		<p>estimation in Blood; For Inorganic Chromium-Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for Physical examination and tests. 30 years, including the results of and the records of The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).</p>
<p><b>PPs Submission:</b> Complied Periodic health checkup is carried out for all workers and employees, which include checkups for body height and weight, PFT, Chest X-ray, audiometry etc. by a certified Medical practitioner. Records for the same are regularly maintained.</p>		<p>Date: 13/11/2025</p>
53	Human Health Environment	<p>The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 - 24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.</p>
<p><b>PPs Submission:</b> Complied Periodic health checkup for all workers is conducted. The details of test conducted and employees till date for FY 26 has been attached as Annexure IV.</p>		<p>Date: 18/11/2025</p>
54	Human Health Environment	<p>The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p>
<p><b>PPs Submission:</b> Complied Wet drilling is a common practice in the mines. Further all dusty areas are being wetted by water sprinkling arrangement. Staffs and Workers exposed to dust prone areas are provided with all PPEs. Regular training is given to all staff at our VT Centre to educate them on safety and health aspects.</p>		<p>Date: 13/11/2025</p>
55	Human Health Environment	<p>Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic wastewater should be treated with STP in order to avoid contamination of underground water.</p>



<b>PPs Submission: Complied</b> Majority of the workers are from local areas. We have constructed temporary residential facility with all facilities for the labour within the lease hold area and provided facilities like toilets, safe drinking water, medical health care and creche for kids.		Date: 13/11/2025
56	PUBLIC HEARING	The project proponent shall submit the time-bound action plan to the concerned integrated regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public hearing by the project proponent and as submitted to SEAC, in terms of the provision of the MoEF CC Office Memorandum No-22-65/2017-1A.111 dated 30" September,2020. The action plan shall be implemented within three years of the commencement of the project.
<b>PPs Submission: Being Complied</b> The applicable activities committed during Public hearing are being complied as in time bound manner and implementation to be completed by FY 27.		Date: 13/11/2025
57	PUBLIC HEARING	The activities proposed in action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the action plan and within the stipulated time frame. The status report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the IRO, Bhubaneswar, MoEFCC, OSPB and SEIAA, Odisha.
<b>PPs Submission: Being Complied</b> The activities proposed in action plan prepared for addressing the issues raised during the Public Hearing are being completed. The status report on implementation of action plan will be submitted to the concerned Regional Office of the Ministry. The funds earmarked for environmental protection measures is kept in separate cost centre and will not be diverted for other purposes.		Date: 13/11/2025
58	MISCELLANEOUS	The Project Proponent shall prepare digital map (land use and land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MOEFCC.
<b>PPs Submission: Agreed to Comply</b> The digital map (land use and land cover) of the entire lease area will be submitted after 5years to the Regional Office of the MOEFand CC.		Date: 13/11/2025
59	MISCELLANEOUS	The Project Authorities should inform to the Regional Office 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: Agreed to Comply</b> Already developed project, Final Mine closure to be submitted after approval of FMCP from IBM.		Date: 13/11/2025
60	MISCELLANEOUS	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the concerned Integrated Regional Office (IRO), Bhubaneswar of Ministry, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board.

<b>PPs Submission:</b> Complied Six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards is being submitted to the concerned Integrated Regional Office (IRO), Bhubaneswar of Ministry, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board.		Date: 13/11/2025
61	MISCELLANEOUS	An Environmental Management Plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A separate Environmental Management Cell with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.
<b>PPs Submission:</b> Complied We have established a separate Environmental Management Cell with qualified persons which is headed by top Management. The details of the cell has been attached as Annexure V.		Date: 13/11/2025
62	MISCELLANEOUS	The project proponent shall augment infrastructure on drinking water, health care and education in nearby villages as per time bound action plan submitted.
<b>PPs Submission:</b> Complied We have augmented the infrastructure on drinking water, health care and education in nearby villages through our Tata Steel Foundation team.		Date: 13/11/2025
63	MISCELLANEOUS	The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area.
<b>PPs Submission:</b> Complied We have obtained permission from DGMS under 106(2b) to carry out blasting operation within the lease area vide NOC NO: 180048 SEZ Bhubaneswar Region Perm 2021 9271, Date: 28/05/2021 valid up to 5 years.		Date: 13/11/2025
64	MISCELLANEOUS	It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment Impact Assessment Authority (SEIAA), Odisha, SPCB and Regional Office of the Ministry of Environment and Forest, Odisha in hard and soft copies on 1st June and 1st December of each calendar year. The proponent shall also upload the six monthly compliance report including results of monitored data, as applicable in the website of the Ministry( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ) or monitoring of EC Conditions.
<b>PPs Submission:</b> Complied Six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards is being submitted to the concerned Integrated Regional Office (IRO), Bhubaneswar of Ministry, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board in hard copy and through mail. The compliance report is also being uploaded in Ministry website ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ).		Date: 18/11/2025
65	MISCELLANEOUS	The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the concerned Integrated Regional Office (IRO),

		Bhubaneswar of MoEFCC, Gol, Central Pollution Control Board and State Pollution Control Board.
<b>PPs Submission: Complied</b> The environmental statement for financial year ending 31st March in Form-V vide letter No. TSL/FAMD/SAR/FY26/3100 on dated 25.09.2025 was submitted to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986. The Environmental statement is also uploaded our company website along with the status of compliance of EC conditions. The same is also being sent to the Integrated Regional Office (IRO), Bhubaneswar of MoEFCC, Gol, Central Pollution Control Board and State Pollution Control Board.		Date: 13/11/2025
66	MISCELLANEOUS	The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
<b>PPs Submission: Complied</b> We have uploaded six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on our website (www.tatasteel.com) and is being updated periodically.		Date: 13/11/2025
67	MISCELLANEOUS	The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data information / monitoring reports.
<b>PPs Submission: Agreed to Comply</b> Agreed and will be extended full cooperation to- the MoEFCC officer(s) by furnishing the requisite data information / monitoring reports during inspection.		Date: 13/11/2025
68	MISCELLANEOUS	The SEIAA, Odisha may revoke or suspend the EC, if implementation of any of the above stipulated conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.
<b>PPs Submission: Agreed to Comply</b> Agreed		Date: 13/11/2025
69	MISCELLANEOUS	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court and any other Court of Law relating to the subject matter.
<b>PPs Submission: Agreed to Comply</b> Agreed		Date: 13/11/2025
70	MISCELLANEOUS	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT

		and any other Court of Law, Common Cause Conditions as may be applicable.
<b>PPs Submission:</b> Agreed to Comply Agreed		<b>Date:</b> 13/11/2025
71	MISCELLANEOUS	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
<b>PPs Submission:</b> Agreed to Comply Agreed		<b>Date:</b> 13/11/2025
72	Statutory compliance	The Project proponent complies with all the statutory requirements and judgment of Hon ble Supreme Court dated 24 August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India and Ors before commencing the mining operations
<b>PPs Submission:</b> Complied All the applicable statutory permissions as necessary for mining operation have been obtained or in process.		<b>Date:</b> 18/11/2025
<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>		



OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS  
(WILDLIFE) & CHIEF WILDLIFE WARDEN, ODISHA

BDA APARTMENT, 5<sup>TH</sup> FLOOR, PRAKRUTI BHAWAN, NILAKANTHA NAGAR, BBSR-12

Ph. No.0674-2564587, FAX No.0674-2565062

(Website:odishawildlife.org, E. mail: odishawildlife@gmail.com)

Memo No. 10180 /1WL-SSP-55/2016

Dated, Bhubaneswar the 27 Dec, 2016

To

The Divisional Forest Officer,  
Cuttack Division

**Sub:** *Saruabil Chromite Mines of M/s Misrilall Mines (P)  
Ltd. in Jajpur District – Authentication of location  
map regarding*

**Ref:** *Your memo No.12385 dt 20.12.2016*

As per the location map provided by you in your memo No. cited above, the proposed tiger corridor in Daitari DPF is at a radial distance of 9.115 km from the above mining lease. No other National Parks/Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves, etc. exist within 10 km of the above mine lease.

In this regard, I am directed to enclose herewith copies of the location map (in duplicate) duly authenticated by the PCCF (WL) & CWLW, Odisha, in compliance to point No.2 of Govt. of India, MoEF&CC letter No.J-11015/72/2010-IA.II(M) dt 27.6.2016.

**Encl: As above**

  
Deputy CF (WLM)

Memo No. 10181 /date 27-12-2016

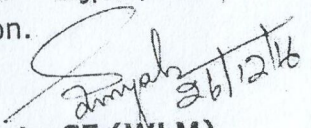
Copy forwarded to the Regional Chief Conservator of Forests, Angul Circle for information with reference to memo No.12386 dt 20.12.2016 of the DFO, Cuttack Division.

  
Deputy CF (WLM)

P.T.O.



✓ Memo No. 10182 /date 27-12-2016  
Copy forwarded to Sri U.K.Sinha, Chief Executive Mines,  
M/s Misrilal Mines (P) Ltd., Saruabil, PO - Kansa, Dist. - Jajpur, PIN  
- 755028 for favour of information and necessary action.

  
Deputy CF (WLM)

**Annexure-II: Estimated ground water recharge**

<b>Water Recharged for FY 26 H1 of Saruabil Chromite Block</b>						
Month	April-25	May-25	June-25	July-25	August-25	Sept-25
Cu.M water recharged	5,435	73,947	1,20,677	2,91,336	3,23,945	2,29,346





Report. No: Envlab/25-26/TR-15292

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### AMBIENT AIR QUALITY (CORE ZONE)

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

AAQMS1- Office Top												
Monthly Average	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NOx µg/m3	CO mg/m3	O3 µg/m3	Pb µg/m3	NH3 µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	Arsenic ng/m3	Nickel ng/m3
APRIL-25	61.6	33.8	11.1	12.0	0.39	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AAQMS1- CETP TOP												
MAY-25	62.2	33.1	11.8	13.1	0.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JUNE-25	58.6	29.3	11.1	12.7	0.41	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JULY-25	51.4	26.5	10.7	12.4	0.42	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AUG-25	49.9	25.9	11.1	12.2	0.43	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	48.4	25.1	11.9	12.4	0.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	54.1	28.0	11.3	12.6	0.41	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1 hour)	80.00 (1 hour)	4.0 (1 hour)	180 (1 hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22

  
Reviewed By

  
Approved By



Report. No: Envlab/25-26/TR-15293

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### AMBIENT AIR QUALITY (CORE ZONE)

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

#### AAQMS2- ETP TOP

Monthly Average	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NOx µg/m3	CO mg/m3	O3 µg/m3	Pb µg/m3	NH3 µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	Arsenic ng/m3	Nickel ng/m3
APRIL-25	69.7	37.1	12.1	14.7	0.39	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MAY-25	69.1	37.5	12.0	14.7	0.39	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JUNE-25	62.1	30.4	11.3	14.8	0.42	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JULY-25	58.9	29.2	11.3	13.3	0.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AUG-25	59.2	29.3	11.2	12.6	0.47	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	59.6	29.9	11.0	12.4	0.50	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	63.1	32.2	11.5	13.8	0.43	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22





Report. No: Envlab/25-26/TR-15294

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25) AMBIENT AIR QUALITY (CORE ZONE)

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

AAQMS3- Mechanical Garage												
Monthly Average	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NOx µg/m3	CO mg/m3	O3 µg/m3	Pb µg/m3	NH3 µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	Arsenic ng/m3	Nickel ng/m3
APRIL-25	67.8	35.2	12.1	13.9	0.39	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MAY-25	70.0	39.0	12.6	13.9	0.45	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JUNE-25	60.2	29.6	11.6	12.9	0.47	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JULY-25	53.5	25.6	11.8	13.1	0.42	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AUG-25	53.6	26.8	11.8	12.7	0.47	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	56.5	28.5	11.5	13.5	0.50	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	60.3	30.8	11.9	13.3	0.45	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22

  
Reviewed By

  
Approved By



Report. No: Envlab/25-26/TR-15295

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### AMBIENT AIR QUALITY (CORE ZONE)

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

#### AAQMS4- Old Magazine

Monthly Average	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NOx µg/m3	CO mg/m3	O3 µg/m3	Pb µg/m3	NH3 µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	Arsenic ng/m3	Nickel ng/m3
APRIL-25	70.7	37.3	13.0	14.4	0.48	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MAY-25	68.1	37.4	13.1	14.7	0.51	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JUNE-25	62.1	30.9	12.3	14.5	0.50	BDL	BDL	BDL	BDL	BDL	BDL	BDL
JULY-25	56.9	28.3	11.5	12.5	0.42	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AUG-25	60.8	30.9	11.8	13.3	0.48	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	59.8	29.7	11.8	13.1	0.54	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	63.1	32.4	12.3	13.8	0.49	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22





Report. No: Envlab/25-26/TR-15296

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25) AMBIENT AIR QUALITY (BUFFER ZONE)

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

### AAQBZ1: Balipura Village

Monthly Average	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NOx µg/m3	CO mg/m3	O3 µg/m3	Pb µg/m3	NH3 µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	Arsenic ng/m3	Nickel ng/m3
JUNE-25	53.1	24.6	BDL	BDL	BDL	5.1	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	43.9	24.2	BDL	BDL	BDL	4.7	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	48.5	24.4	BDL	BDL	BDL	4.9	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22

### AAQBZ2: Sukurangi Village

Monthly Average	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NOx µg/m3	CO mg/m3	O3 µg/m3	Pb µg/m3	NH3 µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	Arsenic ng/m3	Nickel ng/m3
JUNE-25	50.9	24.7	BDL	BDL	BDL	5.5	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	47.1	23.9	BDL	BDL	BDL	4.1	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	49.0	24.3	BDL	BDL	BDL	4.8	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22

  
Reviewed By

  
Approved By





Report. No: Envlab/25-26/TR-15297

Date: 10.10.2025

**SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)**  
**AMBIENT AIR QUALITY (BUFFER ZONE)**

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

AAQBZ3: Saruabil Village												
Monthly Average	PM10 µg/m <sup>3</sup>	PM2.5 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	O <sub>3</sub> µg/m <sup>3</sup>	Pb µg/m <sup>3</sup>	NH <sub>3</sub> µg/m <sup>3</sup>	Benzene µg/m <sup>3</sup>	Benzo(a) Pyrene ng/m <sup>3</sup>	Arsenic ng/m <sup>3</sup>	Nickel ng/m <sup>3</sup>
JUNE-25	55.4	25.3	BDL	BDL	BDL	5.9	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	50.2	25.1	BDL	BDL	BDL	5.3	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	52.8	25.2	BDL	BDL	BDL	5.6	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22

**AAQBZ4: Talangi Village**

Monthly Average	PM10 µg/m <sup>3</sup>	PM2.5 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	O <sub>3</sub> µg/m <sup>3</sup>	Pb µg/m <sup>3</sup>	NH <sub>3</sub> µg/m <sup>3</sup>	Benzene µg/m <sup>3</sup>	Benzo(a) Pyrene ng/m <sup>3</sup>	Arsenic ng/m <sup>3</sup>	Nickel ng/m <sup>3</sup>
JUNE-25	51.6	26.4	BDL	BDL	BDL	5.3	BDL	BDL	BDL	BDL	BDL	BDL
SEPT-25	46.6	23.5	BDL	BDL	BDL	5.0	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	49.1	25.0	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100.00 (24 hours)	60.00 (24 hours)	80.00 (1hours)	80.00 (1 hour)	4.0 (1hour)	180 (1hour)	400 (24 hours)	5 (Annual)	1 (Annual)	1 (24 hours)	6 (Annual)	20 (Annual)
Method of Testing	IS: 5182, PART-4, 23	IS: 5182, PART-4, 23	IS: 5182, PART-2	IS: 5182, PART-6	IS: 5182, PART-10	CPCB Guidelines	IS: 5182, PART-22	CPCB Guidelines	IS: 5182, PART-12	IS: 5182, PART-12	IS: 5182, PART-22	IS: 5182, PART-22

  
Reviewed By

  
Approved By



Report. No: Envlab/25-26/TR-15298

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### GROUND WATER QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

#### GW1: Piezo hole of Damsala Nalla Site

Sl. No	Parameter	Unit of Measurement	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
01	Colour	Hazen	CL	CL	CL	CL	CL	CL	CL
02	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
03	Taste	mg/l	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
04	Turbidity	NTU	1.3	1.1	1.3	1.5	<1.0	<1.0	<1.0
05	Total Dissolved Solids as TDS	mg/l	140	132	126	130	138	129	133
06	pH at 25°C	--	7.15	7.2	7.11	7.19	7.21	7.26	7.19
07	Aluminium (as Al)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
08	Ammonia (as total ammonia-N)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
09	Anionic Detergents	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10	Calcium as Ca	mg/l	34.2	33.9	34.6	33.4	35.2	34.6	34.3
11	Chloride as Cl	mg/l	25.9	26.8	27.6	27.5	29.4	26.7	27.3
12	Dissolved Oxygen	mg/l	4.4	4.2	4	4.2	4.4	4.5	4.3
13	Fluoride as F	mg/l	0.16	0.18	0.19	0.21	0.19	0.21	0.19
14	Free Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
15	Magnesium as Mg	mg/l	0.24	0.25	0.26	0.35	0.33	0.32	0.29
16	Iron as Fe	mg/l	1.18	2.33	1.91	7.49	7.62	9.20	4.96
17	Manganese as Mn	mg/l	0.18	0.23	0.24	0.23	0.21	0.19	0.21
18	Sulphate as SO <sub>4</sub>	mg/l	5.4	4.9	4.6	5.1	5.3	5.1	5.07
19	Total alkalinity as CaCO <sub>3</sub>	mg/l	56.2	58.8	56.3	67.2	82.5	89.6	68.43
20	Total Hardness	mg/l	90	94	102	114	119	124	107.2
21	Mercury as Hg	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
22	Nickel (as Ni)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
23	Arsenic as As	mg/l		<0.004	<0.004	<0.01	<0.01	<0.004	<0.004
24	Pesticide	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25	Total Chromium as Cr	µg/l	0.014	0.013	0.013	0.014	0.013	0.013	0.013
26	Hexa Chromium as Cr +6	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Fecal Coliform	MPN/100ml	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
28	Anionic detergent as MBAS	Mg/l	-	ND	ND	ND	ND	ND	ND
29	Electrical Conductivity at 250C	µS/cm	-	536	520	580	648	487	554
30	Copper as Cu	mg/l	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
31	Nitrate as NO <sub>3</sub>	mg/l	-	2.3	2.1	2.4	2.9	2.5	2.44
32	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
33	Cadmium as Cd	mg/l	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
34	Selenium as Se	mg/l	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
35	Cyanide as CN	mg/l	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
36	Lead as Pb	mg/l	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Reviewed By  


Approved By  






# Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Report. No: Envlab/4-25/TR-15299

Date: 10.10.2025

## GW2: Piezo hole at DB Plot

Sl. No	Parameter	Unit of Measurement	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
01	Colour	Hazen	CL	CL	CL	CL	CL	CL	CL
02	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
03	Taste	mg/l	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
04	Turbidity	NTU	1.1	1.3	<1.0	1.2	<1.0	<1.0	1.0
05	Total Dissolved Solids as TDS	mg/l	146	140	138	145	144	140	142
06	pH at 250C	--	7.23	7.24	7.25	7.31	7.35	7.31	7.28
07	Aluminium (as Al)	mg/l	1.3	1.2	<0.1	<0.1	<0.1	<0.1	<0.1
08	Ammonia (as total ammonia-N)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
09	Anionic Detergents	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10	Calcium as Ca	mg/l	31.8	31.2	31.9	35.1	33.9	32.9	32.8
11	Chloride as Cl	mg/l	28.1	29.5	28.5	28.3	28.1	28.5	28.5
12	Dissolved Oxygen	mg/l	4.2	4.4	4.2	4.6	4.8	4.6	4.47
13	Fluoride as F	mg/l	0.21	0.23	0.22	0.25	0.22	0.19	0.22
14	Free Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
15	Magnesium as Mg	mg/l	0.18	0.21	0.21	0.29	0.23	0.31	0.24
16	Manganese as Mn	mg/l	3.65	4.45	4.03	3.55	5.25	6.58	4.59
17	Iron as Fe	mg/l	0.23	0.25	0.21	0.25	0.23	0.22	0.23
18	Manganese as Mn	mg/l	6.9	5.2	5.5	5.3	5.1	5.3	5.55
19	Sulphate as SO4	mg/l	62.7	60.2	58.1	60.9	60.3	79.4	63.6
20	Total alkalinity as CaCO3	mg/l	94.2	96	98	102	106	109	100.9
21	Total Hardness	mg/l	94.2	96	98	102	106	109	101
22	Mercury as Hg	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
23	Nickel (as Ni)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
24	Arsenic as As	mg/l	<0.004	<0.004	<0.004	<0.01	<0.01	<0.004	<0.004
25	Pesticide	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	Absent
26	Total Chromium as Cr	µg/l	0.012	0.015	0.015	0.016	0.015	0.011	0.014
27	Hexa Chromium as Cr +6	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
28	Fecal Coliform	mg/l	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
29	Anionic detergent as MBAS	mg/l	-	ND	ND	ND	ND	ND	ND
30	Electrical Conductivity at 250C	µS/cm	-	614	576	617	648	542	599
31	Copper as Cu	mg/l	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
32	Nitrate as NO3	mg/l	-	2.8	2.5	3.0	2.9	2.1	2.66
33	Phenolic Compounds as C6H5OH	mg/l	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
34	Cadmium as Cd	mg/l	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
35	Selenium as Se	mg/l	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
36	Cyanide as CN	mg/l	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05





Report. No: Envlab/25-26/TR-15300

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25) SURFACE WATER QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

### SW1: Damsala Nallah Upstream Water

Sl. No	Parameter	Unit	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Colour (max)	Hazen	<10	<10	<10	<10	<20	15	15
2	pH Value	--	7.21	7.21	7.25	7.01	7.15	7.19	7.17
4	Suspended solids	mg/l	108	108	96	92	98	96	99.7
5	Dissolved Oxygen (minimum)	mg/l	4.2	4.2	4.4	4.6	4.4	4.2	4.3
6	Turbidity	NTU	9.8	9.8	10.3	10.9	14.7	14.1	11.6
7	Chloride (max)	mg/l	29.3	29.3	29.9	27.8	29.2	26.9	28.7
8	Total Dissolved Solids	mg/l	280	280	268	274	287	306	282.5
9	BOD (3) days at 270C (max)	mg/l	<1	<1	<1	<1	<1	<1	<1
10	Arsenic as As	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
11	Lead as Pb(max)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
12	Cadmium as Cd (max)	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
13	Hexa Chromium as Cr +6	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Copper as Cu (max)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
15	Zinc as Zn(max)	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
16	Selenium as Se (max)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
17	Cyanide as CN (max)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
18	Fluoride as F (max)	mg/l	0.23	0.23	0.21	0.23	0.21	0.19	0.22
19	Sulphates (SO4) (max)	mg/l	0.31	0.31	0.33	0.31	0.44	0.46	0.36
20	Phenolic Compounds as C6H5OH (max)	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
21	Iron as Fe (max)	mg/l	0.26	0.26	0.24	0.26	0.35	0.34	0.29
22	Nitrate as NO3, (max)	mg/l	4.2	4.2	4.1	4.4	4.6	4.9	4.4
23	Anionic Detergents (max)	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
24	Total Coli form	MPN/100 ml	340	340	320	280	340	320	323



Reviewed By



Approved By



# Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Report. No: Envlab/25-26/TR-15301

Date: 10.10.2025

## SW2: Damsala Nallah Downstream Water

Sl. No	Parameter	Unit	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Colour (max)	Hazen	<15	<15	<15	25	<25	<20	25
2	pH Value	--	7.22	7.31	7.33	7.36	7.33	7.28	7.31
3	Suspended solids	mg/l	112	108	104	116	120	138	116
4	Dissolved Oxygen (minimum)	mg/l	4.6	4.8	5.2	5.1	5.3	5.5	5.1
5	Turbidity	NTU	10.5	11.7	12.1	15.9	15.3	15.5	13.5
6	Chloride (max)	mg/l	30.2	31.5	30.2	31.5	31.2	31.8	31.1
7	Total Dissolved Solids	mg/l	298	290	298	305	324	331	308
8	BOD (3) days at 270C (max)	mg/l	<1	<1	<1	<1	<1	<1	<1
9	Arsenic as As	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
10	Lead as Pb(max)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11	Cadmium as Cd (max)	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
12	Hexa Chromium as Cr +6	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
13	Copper as Cu (max)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
14	Zinc as Zn(max)	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
15	Selenium as Se (max)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
16	Cyanide as CN (max)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
17	Fluoride as F (max)	mg/l	0.28	0.31	0.33	0.3	0.28	0.31	0.30
18	Sulphates (SO4) (max)	mg/l	0.37	0.38	0.35	0.49	0.58	0.64	0.47
19	Phenolic Compounds as C6H5OH (max)	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
20	Iron as Fe (max)	mg/l	0.33	0.31	0.29	0.31	0.29	0.38	0.32
21	Nitrate as NO3, (max)	mg/l	4.9	4.5	5	5.1	5.3	5.5	5.05
22	Anionic Detergents (max)	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
23	Fecal Coli form	MPN/100 ml	520	480	440	480	460	440	470



Reviewed By



Approved By



Report. No: Envlab/25-26/TR-15302

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### DRINKING WATER QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

#### DW1- Piezo hole of COB Plot/ Tap water from dispensary

Sl. No	Parameter	Unit	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	Average
1	Colour	Hazen	CL	CL	CL	CL	CL	CL	CL
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	mg/l	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	1.2
5	Total Dissolved Solids as TDS	mg/l	157	162	162	185	196	158	170
6	pH at 25°C	--	7.26	7.32	7.24	7.31	7.25	7.16	7.26
7	Aluminium (as Al)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8	Ammonia (as total ammonia-N)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
9	Anionic Detergents	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10	Calcium as Ca	mg/l	34.2	35.6	33.6	34.2	36.5	35.6	34.95
11	Chloride as Cl	mg/l	28.6	29.8	26.9	29.1	28.2	28.4	28.5
12	Dissolved Oxygen	mg/l	4.4	4.6	4.2	4.6	5.1	4.4	4.55
13	Fluoride as F	mg/l	0.26	0.31	0.29	0.31	0.28	0.26	0.29
14	Free Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
15	Iron as Fe	mg/l	0.33	0.35	0.32	0.41	0.43	0.32	0.36
16	Magnesium as Mg	mg/l	8.6	9.61	10.77	12.84	11.93	10.05	10.63
17	Manganese as Mn	mg/l	0.022	0.025	0.023	0.025	0.024	0.021	0.023
18	Sulphate as SO <sub>4</sub>	mg/l	11.5	12.4	12.3	10.9	9.6	11.6	11.38
19	Total Alkalinity as CaCO <sub>3</sub>	mg/l	85	90	89	96	102	92	92.3
20	Total Hardness	mg/l	120.6	128.2	128	138	140	130	130.8
21	Mercury as Hg	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
22	Nickel (as Ni)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
23	Arsenic (as As)	mg/l	-	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
24	Pesticide	mg/l	<0.004	Absent	Absent	Absent	Absent	Absent	Absent
25	Total Chromium as Cr	mg/l	0.013	0.015	0.012	0.014	0.015	0.014	0.014
26	Hexa Chromium as Cr +6	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Fecal Coliform	MPN/100 ml	<1.8	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
28	Anionic detergent as MBAS	Mg/l	-	ND	ND	ND	ND	ND	ND
29	Electrical Conductivity at 25°C	µS/cm	-	602	576	648	620	539	597.0
30	Copper as Cu	mg/l	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
31	Nitrate as NO <sub>3</sub>	mg/l	-	3.1	2.3	2.9	3.1	2.1	2.7
32	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
33	Cadmium as Cd	mg/l	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
34	Selenium as Se	mg/l	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
35	Cyanide as CN	mg/l	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
36	Lead as Pb	mg/l	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Reviewed By  


Approved By  






Report. No: Envlab/25-26/TR-15303

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### DRINKING WATER QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

#### DW2- Tubewell at Saruabil Village

Sl. No	Parameter	Unit	JUNE-25	SEPT-25	AVERAGE
01	Colour	Hazen	CL	CL	CL
02	Odour	--	Agreeable	Agreeable	Agreeable
03	Taste	mg/l	Agreeable	Agreeable	Agreeable
04	Turbidity	NTU	<1.0	<1.0	<1.0
05	Total Dissolved Solids as TDS	mg/l	162	180	171
06	pH at 25°C	--	7.24	7.24	7.24
07	Aluminium (as Al)	mg/l	<0.01	<0.01	<0.01
08	Ammonia (as total ammonia-N)	mg/l	<0.1	<0.1	<0.1
09	Anionic Detergents	mg/l	<0.2	<0.2	<0.2
10	Calcium as Ca	mg/l	33.6	33.2	33.4
11	Chloride as Cl	mg/l	26.9	29.1	28.00
12	Dissolve Oxygen	mg/l	4.2	4.5	4.35
13	Fluoride as F	mg/l	0.29	0.24	0.27
14	Free Residual Chlorine	mg/l	<0.1	<0.1	<0.1
15	Iron as Fe	mg/l	0.32	0.35	0.34
16	Magnesium as Mg	mg/l	10.77	11.02	10.90
17	Manganese as Mn	mg/l	0.023	0.025	0.024
18	Sulphate as SO <sub>4</sub>	mg/l	12.3	10.5	11.40
19	Total alkalinity as CaCO <sub>3</sub>	mg/l	89	95	92
20	Total Hardness	mg/l	128	128	128
21	Mercury as Hg	mg/l	<0.004	<0.004	<0.004
22	Nickel (as Ni)	mg/l	<0.1	<0.1	<0.1
23	Arsenic as As	mg/l	Absent	Absent	Absent
24	Pesticide	mg/l	0.012	0.016	0.014
25	Total Chromium as Cr	mg/l	<0.01	<0.01	<0.01
26	Hexa Chromium as Cr +6	mg/l	<1.8	<1.8	<1.8
27	Fecal Coli form	MPN/100ml	<1.1	<1.1	<1.1
28	Anionic detergent as MBAS	Mg/l	ND	ND	ND
29	Electrical Conductivity at 25°C	µS/cm	576	580	578
30	Copper as Cu	mg/l	<0.02	<0.02	<0.02
31	Nitrate as NO <sub>3</sub>	mg/l	2.3	2.5	2.4
32	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/l	<0.001	<0.001	<0.001
33	Cadmium as Cd	mg/l	<0.001	<0.001	<0.001
34	Selenium as Se	mg/l	<0.01	<0.01	<0.01
35	Cyanide as CN	mg/l	<0.05	<0.05	<0.05
36	Lead as Pb	mg/l	<0.01	<0.01	<0.01





Report. No: Envlab/25-26/TR-15304

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### WASTE WATER QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

#### WW-1: ETP Inlet

Sl No	Parameter	Unit	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	pH at 250C	-	8.11	7.98	7.93	7.43	7.63	7.61	7.78
2	Colour	Hazen	<15	<15	<15	<15	<15	<15	<15
3	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Temperature	°C	28.5	30.2	26.9	25.9	28.3	31.5	28.55
5	Suspended Solids	mg/l	14.8	14.9	15.3	14.8	15.2	16.5	15.25
6	Total Residual Chlorine	mg/l	0.14	0.13	0.12	0.13	0.12	0.14	0.13
7	Oil & Grease	mg/l	5.3	5.5	5.4	5.6	5.3	5.1	5.37
8	Biochemical Oxygen Demand as BOD at 270C For 3 Days	mg/l	42	44	48	42	50	49	45.83
9	Chemical Oxygen Demand as COD	mg/l	158	174.0	186.0	167.0	202.0	196.0	180.50
10	Amm. Nitrogen (as N)	mg/l	1.15	1.12	1.13	1.18	1.19	1.24	1.17
11	Total Kjeldhal Nitrogen	mg/l	4.2	4.3	4.6	4.5	4.7	4.9	4.53
12	Free Ammonia	mg/l	0.021	0.022	0.023	0.021	0.023	0.024	0.02
13	Nitrate as NO <sub>3</sub>	mg/l	1.16	1.13	1.16	1.18	1.24	1.25	1.19
14	Diss. Phosphate (as P)	mg/l	0.54	0.56	0.52	0.49	0.53	0.55	0.53
15	Fluoride	mg/l	0.34	0.33	0.34	0.35	0.29	0.26	0.32
16	Sulphide	mg/l	ND	ND	ND	ND	ND	ND	ND
17	Phenolic Compound	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
18	Cyanide (as CN)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
19	Hexavalent Chromium as Cr +6	mg/l	0.56	0.53	0.51	0.54	0.31	0.33	0.46
20	Mercury (as Hg)	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
21	Arsenic	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
22	Lead (as Pb)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
23	Cadmium (as Cd)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Total Chromium (as Cr)	mg/l	0.63	0.68	0.66	0.62	0.62	0.59	0.63
25	Copper (as Cu)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
26	Zinc (as Zn)	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
27	Selenium (as Se)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
28	Nickel (as Ni)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
29	Manganese (as Mn)	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
30	Iron (as Fe)	mg/l	0.41	0.43	0.41	0.33	0.38	0.35	0.39
31	Vanadium (as V)	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
32	Bio-assay Test	%	91%	91%	90%	91%	92%	91%	91%
33	Particle Size of Suspended Solids	μ	< 850	< 850	< 850	< 850	< 850	< 850	< 850
34	Pesticide	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Reviewed By 

Approved By 



# Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Report. No: Envlab/25-26/TR-15305

Date: 10.10.2025

WW-2: ETP Outlet									
Sl No	Parameter	Unit	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	pH at 250C	-	7.19	7.07	8.18	6.6	6.98	7.49	7.25
2	Colour	Hazen	<5	<5	<5	<5	<5	<5	<5
3	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Temperature	°C	27.9	33.5	25.1	26.2	26.9	30.2	28.30
5	Suspended Solids	mg/l	32.01	32.1	30.6	33.1	30.9	30.2	31.49
6	Total Residual Chlorine	mg/l	0.13	0.12	0.11	0.10	0.11	0.12	0.12
7	Oil & Grease	mg/l	4.4	4.6	<5.0	<5.0	<5.0	<5.0	<5.0
8	Biochemical Oxygen Demand as BOD at 270C For 3 Days	mg/l	<1	<1	<1	<1	<1	<1	<1
9	Chemical Oxygen Demand as COD	mg/l	<2	<2	<2	<2	<2	<2	<2
10	Amm. Nitrogen (as N)	mg/l	0.53	0.58	0.54	0.51	0.58	0.61	0.56
11	Total Kjeldhal Nitrogen	mg/l	3.5	3.8	3.9	3.4	3.6	3.2	3.57
12	Free Ammonia	mg/l	0.023	0.019	0.018	0.017	0.021	0.019	0.020
13	Nitrate as NO3	mg/l	1.12	1.15	1.13	1.12	1.1	1.09	1.12
14	Diss. Phosphate (as P)	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15	Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
16	Sulphide	mg/l	ND	ND	ND	ND	ND	ND	ND
17	Phenolic Compound	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
18	Cyanide (as CN)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
19	Hexavalent Chromium as Cr +6	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20	Mercury (as Hg)	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
21	Arsenic	mg/l	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
22	Lead (as Pb)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
23	Cadmium (as Cd)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Total Chromium (as Cr)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Copper (as Cu)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
26	Zinc (as Zn)	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
27	Selenium (as Se)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
28	Nickel (as Ni)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
29	Manganese (as Mn)	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
30	Iron (as Fe)	mg/l	0.36	0.33	0.30	0.29	0.25	0.25	0.30
31	Vanadium (as V)	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
32	Bio-assay Test	%	93	91%	92%	93%	90%	93%	92%
33	Particle Size of Suspended Solids	μ	< 850	< 850	< 850	< 850	< 850	< 850	< 850
34	Pesticide	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Reviewed By  


Approved By  




Report. No: Envlab/25-26/TR-15306

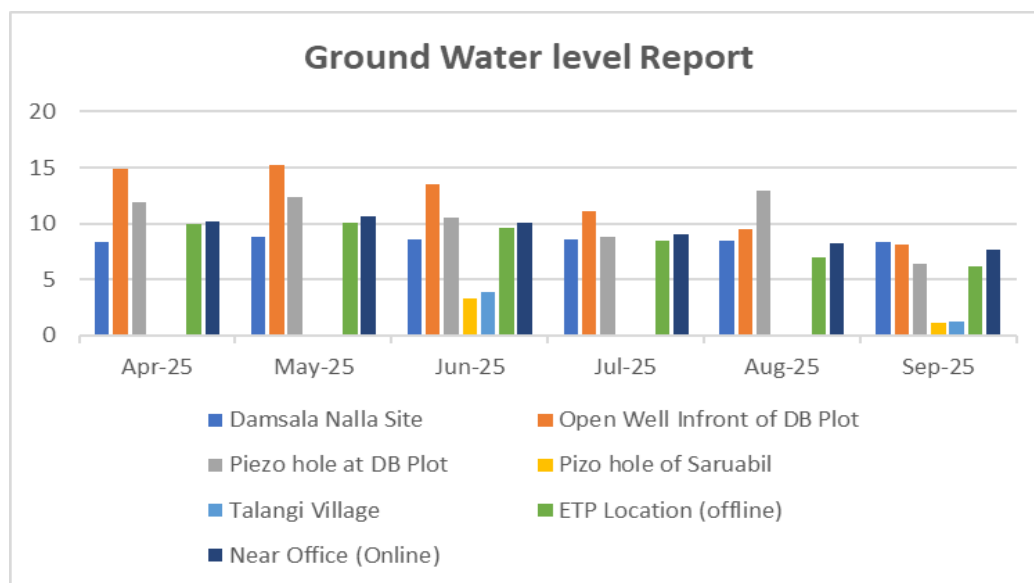
Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### GROUND WATER LEVEL MONITORING REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

Sl. No	Parameter	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Damsala Nalla Site	8.37	8.75	8.62	8.56	8.48	8.40	8.5
2	Open Well Infront of DB Plot	14.92	15.22	13.45	11.15	9.45	8.07	12.0
3	Piezo hole at DB Plot	11.86	12.37	10.54	8.79	12.90	6.34	10.5
4	Pizo hole of Saruabil	-	-	3.25	-	-	1.08	2.2
5	Talangi Village	-	-	3.88	-	-	1.25	2.6
6	ETP Location (offline)	9.97	10.09	9.65	8.45	6.98	6.19	8.6
7	Near Office (Online)	10.15	10.67	10.07	9.07	8.27	7.68	9.3



Reviewed By 

Approved By 



# Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Report. No: Envlab/25-26/TR- 15307

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25) PERSONAL DUST LEVEL MONITORING

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

Personal Respirable Dust (mg/m <sup>3</sup> )								
Sl. No	Monitoring Location	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Nihar Ranjan Hati	0.57	0.55	0.53	0.48	0.51	0.55	0.53
2	Bamiya Munda	0.60	0.61	0.57	0.51	0.46	0.49	0.54
3	Trinath Gananayak	0.61	0.59	0.56	0.44	0.5	0.51	0.54
4	Biren Kisku	0.56	0.52	0.49	0.43	0.49	0.43	0.49
5	Damu Banara	0.59	0.63	0.58	0.52	0.42	0.48	0.54

Respirable free Silica (%)								
Sl. No	Monitoring Location	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Nihar Ranjan Hati	3.2	3.1	2.3	2.0	2.1	2.4	2.52
2	Bamiya Munda	2.8	3.5	2.9	2.3	2.5	2.1	2.68
3	Trinath Gananayak	3.1	3.2	3.1	2.2	2.6	2.3	2.75
4	Biren Kisku	3.0	3.1	2.8	2.5	1.9	2.0	2.55
5	Damu Banara	3.3	2.9	3.3	2.9	2.2	2.5	2.85





Report. No: Envlab/25-26/TR-15308

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25) PERSONAL NOISE LEVEL MONITORING

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

Day Time (6.00am to 10.00pm) Noise Level in dB(A)							
Sl. No	Monitoring Location	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	AVERAGE
1	Nihar Ranjan Hati	57.6	55.3	51.9	46.8	50.4	52.4
2	Bamiya Munda	60.1	59.7	55.8	51.2	49.6	55.3
3	Trinath Gananayak	53.8	60.2	59.2	50.7	50.7	54.9
4	Biren Kisku	54.1	54.6	57.3	53.6	52.2	54.4
5	Damu Banara	59.2	56.8	55.2	52.1	51.3	54.9

  
Reviewed By

  
Approved By



# Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Report. No: Envlab/25-26/TR-15309

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### AMBIENT NOISE MONITORING REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

Noise Level in dB(A), Day Time								
SI. No	Location	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Mines office	52.5	51.9	52.2	54.1	51.7	50.3	52.1
2	Colony area	44.7	45.2	44.8	41.3	40.6	41.3	43.0
3	Village Saruabil	37.4	36.6	40.7	40.2	36.2	35.7	37.8
4	Village Balipura	42.6	41.4	35.5	38.9	41.4	40.5	40.1

Noise Level in dB(A), Night Time								
SI. No	Location	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Mines office	42.7	41.1	40.7	39.8	46.3	46.5	42.9
2	Colony area	37.2	35.3	36.2	33.2	35.1	34.7	35.3
3	Village Saruabil	32.5	31.7	32.8	31.5	31.7	28.5	31.5
4	Village Balipura	35.4	34.2	30.4	30.2	36.8	32.4	33.2

  
Reviewed By

  
Approved By



Report. No: Envlab/25-26/TR-15310

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### SOIL QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

S-1: Dump No-6 (Inside Lease)									
Sl.No	Parameters	Unit	Analysis Results						
			APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	pH at 250 C	--	7.15	7.31	7.36	7.32	7.26	7.31	7.29
2	Texture	--	Clay	Clay	Clay	Clay	Clay	Clay	Clay
	Sand	%	52.6	50.6	53.2	51.2	50.9	51.9	51.7
	Silt	%	3.3	3	3.6	3.8	3.9	3.5	3.5
	Clay	%	51.7	51.2	43.2	45	44.1	40.9	46.0
3	Bulk Density	gm/cc	1.18	1.21	1.02	1.13	1.06	0.96	1.1
4	Water Holding Capacity	%	36.8	35.6	34.6	30.9	30.2	31.5	33.3
5	Electrical Conductivity	µs/cm	92.6	93.8	90.5	94.5	90.5	87.6	91.6
6	Available Nitrogen	mg/kg	18.6	18.7	17.8	18.2	17.2	15.6	17.7
7	Available Potassium as K	mg/kg	15.4	16.3	15.9	16.1	15.6	16.2	15.9
8	Available Phosphorous as p	mg/kg	13.1	13.1	12.3	12.6	12.3	11.3	12.5
9	Chloride as Cl	mg/kg	23.6	21.4	20.8	23.8	20.9	21.8	22.1
10	Iron as Fe	mg/kg	33.9	32.9	30.6	30.9	30.3	28.2	31.1
11	Copper as Cu	mg/kg	11.2	10.9	11.2	11.5	10.9	10.9	11.1
12	Nickel as Ni	mg/kg	15.3	14.6	13.7	13.2	12.7	13.1	13.8
13	Manganese as Mn	mg/kg	26.1	28.5	26.4	25.3	22.6	25.3	25.7
14	Zinc as Zn	mg/kg	30.7	31.7	33.2	30.9	30.3	31.6	31.4
15	Cobalt as Co	mg/kg	5.3	5.5	5.3	5.1	4.6	4.6	5.1
16	Lead as Pb	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
17	Cadmium as Cd	mg/kg	5	4.6	4.4	4.6	4	4.2	4.5
18	Mercury as Hg	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19	Chromium as Cr	mg/kg	26.3	28.2	27.6	30.2	28.6	26.5	27.9
20	Arsenic as As	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
21	Hexavalent Chromium as Cr+6	mg/kg	17.9	19.8	18.2	17.3	15.6	17.1	17.7







Report. No: Envlab/25-26/TR-15311

Date: 10.10.2025

## SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)

### SOIL QUALITY ANALYSIS REPORT

Name & Address of the Client : Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

S-2: Near Shiv Temple (Outside Lease)									
Sl.No	Parameters	Unit	Analysis Results						
			APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAG E
1	pH at 250 C	--	7.61	7.88	7.81	7.78	7.65	7.76	7.75
2	Texture	--	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
	Sand	%	50.9	53.1	55.9	53.8	51.4	54.2	53.2
	Silt	%	2.8	3.2	2.8	3.0	3.2	3.1	3.0
	Clay	%	52.2	49.8	41.3	43.2	40.8	43.1	45.1
3	Bulk Density	gm/cc	1.05	1.08	1.11	1.21	1.15	1.04	1.1
4	Water Holding Capacity	%	37.1	37.8	38.2	35.2	33.7	35.2	36.2
5	Electrical Conductivity	µs/cm	84.5	90.5	92.6	98.2	96.6	90.1	92.1
6	Available Nitrogen	mg/kg	21.4	22.2	21.5	20.4	20.2	20.1	21.0
7	Available Potassium as K	mg/kg	17.2	17.4	17.1	17.4	17.4	17.4	17.3
8	Available Phosphorous as p	mg/kg	12.9	13.5	14.1	14.9	14.1	13.5	13.8
9	Chloride as Cl	mg/kg	21.7	23.5	22.6	25.1	21.8	20.6	22.6
10	Iron as Fe	mg/kg	35.1	33.1	28.7	27.1	24.1	26.1	29.0
11	Copper as Cu	mg/kg	12.8	12.1	12.6	12.4	11.5	11.5	12.2
12	Nickel as Ni	mg/kg	20.5	20.2	18.9	16.9	13.9	17.5	18.0
13	Manganese as Mn	mg/kg	25.9	26.3	21.8	21.2	20.1	20.1	22.6
14	Zinc as Zn	mg/kg	26.4	26.8	27.2	29.4	28.5	27.9	27.7
15	Cobalt as Co	mg/kg	4.8	4.6	4.5	4.4	4.1	4.1	4.4
16	Lead as Pb	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
17	Cadmium as Cd	mg/kg	5.5	5.3	5.1	5.3	5.1	5	5.2
18	Mercury as Hg	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
19	Chromium as Cr	mg/kg	22.1	23.1	22.9	26.7	23.7	21.7	23.4
20	Arsenic as As	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
21	Hexavalent Chromium as Cr+6	mg/kg	16.1	15.3	15.1	16.7	13.8	14.6	15.3

Reviewed By  


Approved By  




Report. No: Envlab/25-26/TR-15312

Date: 10.10.2025

**SIX MONTHLY COMPLIANCE REPORT (APRIL-25 TO SEPT-25)**  
**STACK EMISSION ANALYSIS REPORT**

Name & Address of the Client: Saruabil Chromite Block,  
M/s TATA Steel Limited, Kalarangiatta, Dist. Jajpur, Odisha

**Stack-1 (1010 KVA DG)**

Sl. No.	Parameters	APRIL-25	MAY-25	JUNE-25	JULY-25	AUG-25	SEPT-25	AVERAGE
1	Stack Temp °C	195	192	191	195	192	185	191.7
2	Stack Velocity m/sec	16.21	15.98	15.34	15.88	14.76	15.09	15.5
3	Particulate Matter (PM), mg/Nm <sup>3</sup>	56.8	53.2	51.8	46.9	45.2	50.7	50.8
4	Oxides of Nitrogen (NOx), ppm	42.1	40.8	40.6	37.2	36.9	40.2	39.6
5	Sulphur Dioxide (SO <sub>2</sub> ), ppm	15.9	16.3	15.8	15.4	14.2	15.7	15.6
6	Carbon Monoxide, mg/Nm <sup>3</sup>	62	60	62	60	58	60	60.3
7	Non-Methyl Hydro Carbon as C, mg/Nm <sup>3</sup>	21.8	20.7	19.5	19.2	18.3	18.2	19.6

  
Reviewed By

  
Approved By



**Annexure-IV: Medical test report****Medical test of workers**

SL. NO.	DESIGNATION	CERTIFICATE NO	Test Date
1	Helper	TRB-0739	18-07-2025
2	Etp-Electrician	TRB-0740	18-07-2025
3	Jcb Operator	TRB-0741	18-07-2025
4	Dy. Manager Store	TRB-0742	18-07-2025
5	Dy.manager Electrical	TRB-0743	18-07-2025
6	cetp-Mechanic	TRB-0744	18-07-2025
7	LMV Driver	TRB-0745	18-07-2025
8	Mechanic	TRB-0756	18-07-2025
9	Excavator Operator	TRB-0735	17-07-2025
10	HMV Driver	TRB-0736	17-07-2025
11	HMV Driver	TRB-0737	17-07-2025
12	Asst. Electrician	TRB-0738	17-07-2025
13	Dozer Operator	TRB-0722	17-07-2025
14	Supervisor	TRB-0723	17-07-2025
15	Sweeper	TRB-0724	17-07-2025
16	Helper	TRB-0725	17-07-2025
17	Welder	TRB-0726	17-07-2025
18	Helper	TRB-0727	17-07-2025
19	Helper	TRB-0728	17-07-2025
20	Helper	TRB-0729	17-07-2025
21	Helper (Security)	TRB-0730	17-07-2025
22	Hmv Driver	TRB-0731	17-07-2025
23	Hmv Driver	TRB-0732	17-07-2025
24	Helper	TRB-0733	17-07-2025
25	Welder	TRB-0734	17-07-2025
26	Hmv Driver	TRB-0701	17-07-2025
27	Helper	TRB-0717	17-07-2025
28	Helper	TRB-0718	17-07-2025

29	Dozer Operator	TRB-0719	17-07-2025
30	Hmv Driver	TRB-0720	17-07-2025
31	HMV Driver	TRB-0721	17-07-2025
32	Dozer Operator	TRB-0699	16-07-2025
33	Hmv Driver	TRB-0700	16-07-2025
34	Hmv Driver	TRB-0702	16-07-2025
35	Driller	TRB-0703	16-07-2025
36	Helper	TRB-0704	16-07-2025
37	Lmv Driver	TRB-0705	16-07-2025
38	Grader Operator	TRB-0706	16-07-2025
39	HMV Driver	TRB-0707	16-07-2025
40	HMV Driver	TRB-0708	16-07-2025
41	HMV Driver	TRB-0709	16-07-2025
42	Hmv Driver	TRB-0710	16-07-2025
43	Loader Operator	TRB-0711	16-07-2025
44	HMV Driver	TRB-0712	16-07-2025
45	Helper	TRB-0713	16-07-2025
46	Welder	TRB-0714	16-07-2025
47	Helper	TRB-0715	16-07-2025
48	Hmv Driver	TRB-0716	16-07-2025
49	LMV Driver	TMM-0015	02-07-2025
50	LMV Driver	TMM-0014	02-07-2025
51	Helper	TMM-0016	02-07-2025

### Details of employee for Medical check-up

	Medical Checkup
Sl No	E. No
1	460500
2	460757
3	460721
4	460273
5	460672
6	460285
7	460705

8	460703
9	162023
10	150726
11	460348
12	195525
13	460354
14	809394
15	809614
16	460266
17	500603
18	152487
19	460240
20	460265
21	149939
22	460271
23	460313
24	460300
25	460739
26	460251
27	460718
28	460735
29	460374
31	460262
32	460671
33	460109
34	500558
35	460297
37	460286
38	460246
39	195854
42	460357
43	460294
45	460259
46	460356
48	460290
49	460369
50	809429
51	162012
52	460267
53	460270
54	460365
55	460289
56	460292
57	460247
58	460739
59	460255

60	460298
61	460662
62	460272
63	460284
65	460268
66	460370
67	162758
68	806164
71	460241
72	157127
73	974868
74	460748
75	460751
76	460670
77	460282
78	460371
79	460631
80	460165
83	460291
85	460254
86	460277
87	808377
88	460696
89	460276
90	460252
91	808928

**Annexure-V: Environment Cell****Environmental Cell  
Saruabil Chromite Block  
M/s. Tata Steel Limited**

Sl. No	Name	Designation	Experience (years)	E-mail	Mobile No.
1	Mr. Sambhu Nath Jha	Chief Mines FAMD	24	jhasn@tatasteel.com	9438887778
2	Mr. Naveen Srivastava	Head Mines and Agent	24	naveen@tatasteel.com	6287090160
3	Mr. Mukesh Kumar Prasad	Head Environment RM	13	mukesh.kr@tatasteel.com	9263636664
4	Mr. Niranjana Kumar	Mines Manager	22	niranjana.kumar@tatasteel.com	9204058109
5.	Mr. Biswaranjan Dhal	Manager, Land and Lease	14	biswaranjan.dhal5@tatasteel. com	8114371713
6.	Debdip Senapati	Sr. Manager, Quality Control	15	debdip.senapati@tatasteel.com	9238087043
5	Mr. Abinash Mishra	Manager, Environment	2	abinash.mishra@tatasteel.com	9153998330





TSL/FAMD/SAR/FY26/3100  
Date: 25-09-2025

To,  
The Member Secretary,  
Odisha State Pollution Control Board,  
Paribesh Bhawan,  
A/118, Nilakantha Nagar,  
Bhubaneswar, Pin-751012

**Subject:** Submission of Environmental statement in FORM-V for the year ending 31st March 2025 in respect of Saruabil Chromite Block of M/S Tata Steel Ltd.


**Reference:** Rule-14 under Environmental (Protection) Amendment Rule, 1993 (G.S.R 386, 22.04.1993)

Dear Sir,

We are hereby submitting the Annual Environmental Statement in "FORM-V" prescribed under the provisions of above referenced statute, in respect of Saruabil Chromite Block of M/s Tata Steel Ltd., At - Saruabil, Po- Kalarangiatta, Dist- Jajpur, Odisha, for the year ending 31st March 2025. A copy of the annual return (annual return submitted to IBM, Govt. of India/Directorate of Mines, Govt. of Odisha) is also attached as Annexure-I.

This is for your kind information and perusal please. Receipt of the same may please be acknowledged.

Thanking You.  
Yours faithfully,  
f: Tata Steel Limited

  
Mine Manager  
Saruabil Chromite Block  
Tata Steel Limited

Enclosures: As above (Annexure-I)  
Copy to: Regional Officer, SPCB, Odisha, At-Dhabalagiri, Po- F.C Project, Jajpur Road, Dist - Jajpur - 755020

**TATA STEEL LIMITED**

Ferro Alloys & Minerals Division Saruabil Chromite Mine Kansa Jajpur Odisha 755 028  
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India  
Tel +91 22 6665 8282 Fax +91 22 6665 7724, Website [www.tatasteel.com](http://www.tatasteel.com)  
Corporate Identity Number L27100MH1907PLC000260





# **Environmental Statement**

**Form – V (FY – 2024 – 25)**

**For  
Saruabil Chromite Block**

**Submitted By:**

**Saruabil Chromite Block**

**M/s. Tata Steel Limited**

**At: Saruabil, Po: Kalarangiatta, Block-Sukinda  
District- Jajpur, Odisha -755028**

**FORM-V**

(See Rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE**  
**31<sup>st</sup> MARCH, 2025**  
**SARUABIL CHROMITE BLOCK, M/s. TATA STEEL LIMITED.**

**Part A**

<b>i.</b>	<b>Name and address of the owner / occupier of the industry operation or process.</b>	<b>:</b>	Shri T V Narendran (Managing Director) M/s. Tata Steel Limited, Plot No. N3/24, IRC Village, Nayapalli, Bhubaneswar, Odisha – 751 015
<b>ii.</b>	<b>Industry category Primary – (STC code) Secondary – (SIC Code)</b>	<b>:</b>	Primary (SIC): 1000 (Metal Mining) Secondary (SIC): 1060 (Ferro Alloy Ore)
<b>iii.</b>	<b>Production capacity – Units.</b>	<b>:</b>	0.5 MTPA (Chromite Ore)
<b>iv.</b>	<b>Year of establishment.</b>	<b>:</b>	2020
<b>v.</b>	<b>Date of the last Environmental Statement submitted.</b>	<b>:</b>	26.09.2024

**PART-B**

**Water and Raw Material Consumption**

**A. Water Consumption for FY 2024-25 (April 2024 to March 2025)**

<b>Process</b>	<b>Cooling</b>	<b>Domestic</b>
158.41 m3/day	NA	30.41 m3/day

**B. Specific Water Consumption – (April'2024 to March 2025)**

**(i) Process water consumption per unit of product output**

<b>Name of the Product</b>	<b>Production (MT)</b>	<b>Water consumption per unit of production*</b>
Chrome Ore (ROM)	207678	0.28 KL/MT

*\*Note: In case of mining operation, the water requirement is for dust suppression, plantation & washing of vehicle which has been taken as process consumption of water, which was consumed from ETP treated water.*

**(ii) Raw Material Consumption**

The materials consumed during the previous and current financial year are in consumable and supportive ads in nature. The materials which are required to produce Chrome ore from mine quarry are given below:

Name of material	Name of products	Consumption of material per unit of output	
		During previous financial year (2023-24)	During financial year (2024-25)
Diesel	Chrome Ore (ROM)	5.51 Ltrs./ MT	2.54 Ltrs./ MT
Gas (LPG)		Nil	Nil
Lubricant oil		0.05 Ltrs./ MT	0.013 Ltrs./ MT
Grease		0.0027 Kg/ MT	0.00105 Kg/ MT
Electricity		9.98 KWH/ MT	11.995 KWH/ MT
Explosives		0.019 Kg/MT	0.069 Kg/MT

**PART-C****{POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT}**

(Parameters as specified in the consent issued)

**a. Water**

Sl. No.	Parameters	Unit	Result Average	Maximum Permissible Standard	Variation from the prescribed standard (%)	Quantity (Kg/day)	Remarks for the deviations if any
1.	Suspended Solids	mg/ltr	28.8	100	-71.2	202.35	Within the prescribed limit
2.	Oil & Grease	mg/ltr	3.1	10	-69	21.78	Not Detected in any of the samples.
3.	BOD (3) days at 270c	mg/ltr	ND	30	BDL	NA	Below detection limit.
4.	COD	mg/ltr	ND	250	BDL	NA	Below detection limit
5.	Hexavalent Chromium as Cr +6	mg/ltr	BDL	0.1	BDL	NA	Below detection limit
6.	Total Chromium as Cr	mg/ltr	BDL	2.0	BDL	NA	Detected only in few samples
7.	Nickel as Ni	mg/ltr	BDL	3	BDL	NA	Below detection limit
8.	Iron as Fe	mg/ltr	0.35	3	-88.32	2.46	Below detection limit

**BDL: Below Detection Limit**

**b. Air**

There is no such point source of emission from the mine. Major source of air pollutants is fugitive dust generated mainly due to the movement of vehicles/HEMMs in the haul roads, drilling/blasting activities etc, which is fugitive in nature and thus has not been quantified (mass/day).

**PART-D****HAZARDOUS WASTAGES**

**(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)**

Hazardous Waste	Total Quantity	
	During previous financial year	During the current financial year
<b>(a) From process</b>		
Used/Waste Oil	12.7 Ton	0.43 Ton
Residual waste containing oil	0.087	0.0206 Ton
Discarded Containers/Barrels/Liners contaminated with Hazardous Wastes/Chemicals	Nil	Nil
ETP Sludge	22.5 Ton	57.7
<b>(b) From pollution control facilities</b>	Nil	Nil

**PART-E****Solid Waste**

	Solid Waste	Total Quantity (MT)	
		During the previous financial year (2023-24)	During the current financial year (2024-25)
(a)	From process (Overburden)(m3)	3594753	1084574
(b)	From pollution control facility	Nil	Nil
(c)	(1) Quantity recycled or re-utilized within the unit	Nil	Nil
	(2) Sold	Nil	Nil
	(3) Disposed	Nil	Nil

**PART-F**

**[Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes.]**

The details composition and characteristics of solid and hazardous waste are given below:

<b>Sl. No .</b>	<b>Waste Description</b>	<b>Nature of Waste</b>	<b>Composition/ Characteristics</b>	<b>Quantity (2024-25)</b>	<b>Management (Methods of collection and Disposal)</b>
1	Overburden Material	Non-Hazardous (Solid waste)	Quartzite, Laterites, Lateritic soil, Talc schist and serpentine, Nickeliferous limonite	1084574 MT	The waste material is dumped in non-mineralized area approved by IBM with all environmental protection measures
2	Used /Waste oil	Hazardous Waste (HW-5.1)	Lead, Arsenic, Cadmium, Chromium, Nickel, PAHs etc.	0.43 Ton	Collected and securely stored inside 200Ltr MS Barrels and stored above concrete flooring. Sold to SPCB, Odisha Authorized recycler/ disposer
3	Residual waste containing oil	Hazardous waste (HW-5.2)	Consists of oil contaminated cotton, Jute, soaked sand etc.	0.0206 Ton	Collected and stored in MS Barrels above concrete flooring for large quantity disposal to authorized agency
4	Discarded Containers/Barrels/Liners contaminated with Hazardous Wastes/ Chemicals	Hazardous waste (HW-35.3)	Consist of oil contaminated barrels	Nil	Collected and stored above concrete flooring for large quantity disposal to authorized agency
5	ETP sludge	Hazardous Waste (HW-35.3)	Composition of Cr, Fe, Al, Si etc.	57.7	ETP sludge will be disposed through Re-Sustainability limited, Mangalapur, Jajpur

					(known as CHWTSDf)
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## **PART-G**

### **[Impact of the pollution measures taken on conservation of natural resources and on the cost production]**

#### **a) Dust Suppression**

- Regular water spraying is being carried out on mine haul road, working site, waste dump yard, ore stack yard loading and unloading points by water tankers to reduce the dust levels.
- About 500mtrs of fixed water sprinkling was installed in the main haul road.
- Regular water sprinkling on mineral transportation roads passing through the habitation area as well as other strategic points is being done regularly.
- Wet drilling is a common practice during drilling operation to reduce air pollution.
- Pre- wetting of blasting site and controlled blasting is being practiced reducing dust generation.
- The mineral transportation is being carried out by trucks covered with tarpaulin and properly sealed.
- No trucks are being overloaded at any point of time to avoid spillage of ore and OB in haul road.

#### **b) Management of surface run - off & mine discharge water**

- All the surface run-off water from non-mineralized during rainy seasons is allowed to channelize through well maintained garland drains having sedimentation pits. Finally, the surface run-off accumulated at CETP and quarries for storage. Water from the quarry is then pumped to ETP (380 KL/Hr) or CETP (1200 KL/Hr) for treatment and processes use.
- From the quarry, water is pumped to an effluent treatment plant for detoxification of Cr<sup>+6</sup> and reduces the Total Suspended Solids (TSS) before any use or discharge.

#### **c) Solid waste management**

- Overburden/waste rock is being dumped in the earmarked dump area approved by IBM with suitable terracing. The terraces are stabilized and rehabilitated by massive plantation.
- Retaining walls have been constructed at the toe of various OB dumps to arrest the flow solid material. Garland drains are constructed in and around the OB dumps for drainage of surface run-off.
- Settling pits and check dams inside the garland drain have been constructed to arrest the slit/ soil particles in the water. Yearly twice, the settling pits and garland drains have been desilted.

#### **d) Environmental monitoring.**

- Regular monitoring of ambient air quality is being carried out at four appropriate

locations in core zone and in four locations in buffer zone as per statue.

- Regular monitoring of Ground water level is being carried out by the Piezometric wells in side mine lease area.

**e) Afforestation**

- During FY 2024-25, 480 saplings has been planted in dump.

**f) Noise reduction**

- Heavy vehicles operating in mines have good noise control system. Silencers are maintained in good conditions.
- Regular maintenance of the vehicles/ machines is carried out to reduce the noise pollution.
- Controlled blasting is generally practiced minimizing the noise.
- Regular noise level monitoring is being done on monthly basis and the results are found below permissible limit.

**g) Medical facilities and health monitoring**

- All the employees undergo periodical medical checkup like IME & PME.
- M/s. Utkal polytechnic an occupational checkup health center at Bhubaneswar is periodically conducting initial and periodical examination of the persons working in the project regularly which is recognized by DGMS, Dhanbad.

**h) Environmental Expenditure Made During April 2024 to March 2025**

Sl. No.	Category	Amount Expensed in FY 25
1	Air Pollution Control Equipment	₹ 1,61,61,658.65
2	Water Pollution Control Equipment	₹ 1,47,77,018.53
3	Environment Monitoring	₹ 27,53,493.00
4	Safety & Disaster Management Plan	₹ 2,95,154.63
	Total	₹ 3,39,87,324.81

**PART-H**

**[Additional measures/investment proposal for environmental protecting including abatement of pollution, preservation of pollution]**

1. Regular maintenance of retaining wall around the foot of the dumps will be provided.
2. More garland drain shall be constructed and maintained all along the dump to channelize the water in a single point of storage.
3. One CETP (1200m<sup>3</sup>/hr) has been constructed at Saruabil mines to crater mine seepage and surface run-off of two mines.
4. More fixed sprinklers will be provided in haul roadside to control the dust.



5. For the stability of the dumps regular slope monitoring is being done by précised Total Station Equipment.

**PART-I**

**Any other particular for improving the quality of the environment:**

The management of Tata Steel is committed for prevention of the pollution inside and surrounding the lease hold area. Environmental monitoring is being done in core & buffer zones of the lease area to ascertain & to take preventive measure to keep the parameters within stipulated norms.

**Environmental Management Practices**



**Fully Reclaimed OB Dump**



**Dump runoff management**



**Garland drain with settling pin & Check dam**



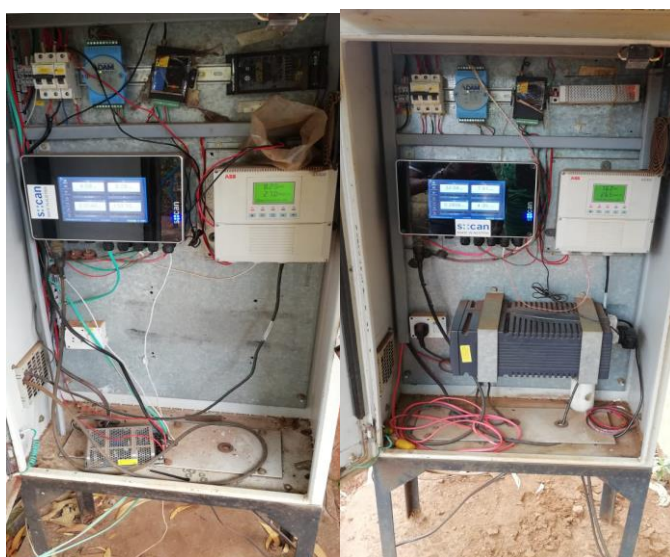
**Garland drain with retaining wall cleaned**



Environmental Statement of Saruabil Chromite Block for the FY 2024-25



**Mines haul road water sprinkling**



**Effluent Quality Monitoring System with RT-DAS**



**Air Monitoring Station**



**Vehicle washing with Oil & Grease separation pit**



**Hazardous storage area**



## Environmental Statement of Saruabil Chromite Block for the FY 2024-25



**Dump Plantation during FY 2023-24**



**Roof top rainwater harvesting structure**



**Piezometers installed for Ground water level monitoring.**



TSL/FAMD/SAR/FY26/ 2707

Date: 27-06-2025

To

**The Regional Controller of Mines,**  
Indian Bureau of Mines,  
Bhubaneswar Region  
Plot No. 149, Pokhariput  
Bhubaneswar- 751020.

**Sub: Submission of Annual Return in Form - G1 along with Surface Plan and Geological Plan & Sections for the Financial Year 2024-25 in respect of Saruabil Chromite Mine, M/s Tata Steel Limited.**

Dear Sir,

We are submitting herewith the Annual Return in Form - G1 along with Surface Plan and Geological Plan & Sections for the Financial Year 2024-25 in respect of Saruabil Chromite Mine, M/s Tata Steel Limited.

This is for your kind information & needful Please.

Thanking you,  
Yours Sincerely,

Mine Manager  
Saruabil Chromite Mine  
M/s Tata Steel Limited

Encl: As above.

**TATA STEEL LIMITED**

Ferro Alloys & Minerals Division Saruabil Chromite Mine Kansa Jajpur Odisha 755 028  
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India  
Tel +91 22 6665 8282 Fax +91 22 6665 7724 Website [www.tatasteel.com](http://www.tatasteel.com)  
Corporate Identity Number L27100MH1907PLC000260



**FORM G-1**

[See rule 45(5)(c)(i)]

**For the financial Year 1<sup>st</sup> April, 2024 to 31<sup>st</sup> March, 2025****ANNUAL RETURN**

[To be used for minerals other than Copper, Gold, Lead, Pyrites, Tin, Tungsten, Zinc and precious and semi-precious stones]

To

- (i) The Regional Controller of Mines  
Indian Bureau of Mines  
Bhubaneswar Region,  
PIN:

(Please address to Regional Controller of Mines in whose territorial jurisdiction the mines falls as notified from time to time by the Controller General, Indian Bureau of Mines under rule 66 of the Mineral Conservation and Development Rules, 2017)

- (ii) The State Government of Odisha

**PART - I (General)**

<b>1. Details of Mine:</b>	
(a) Registration number allotted by Indian Bureau of Mines (to give registration number of the Lessee-Owner)	IBM/4376/2011
(b) Mine Code (allotted by Indian Bureau of Mines)	11ORI19030
(c) Name of the Mineral	CHROMITE
(d) Name of Mine	SARUABIL CHROMITE MINE
(e) Name(s) of other mineral(s), if any, produced from the same mine	
<b>2. Location of the Mine :</b>	
Village	SARUABIL
Post Office	KALARANGIATTA
Tahsil-Taluk	KALIAPANI
District	JAJAPUR
State	ODISHA
PIN Code	755028
Fax No. :	00000000000
Phone No. :	9204058109
E-mail:	minemanager.saruabil@tatasteel.com
Mobile:	9204058109

**3. Name and address of Lessee-Owner (along with fax no. and e-mail):**

Name of Lessee-Owner	M/s. Tata Steel Limited
Address	Bombay House, 24 Homi Modystreet Fort,, Mumbai
District	MUMBAI SUBURBAN
State	MAHARASHTRA
PIN Code	400001
Fax No. :	00000000000
Phone No. :	06742551045
E-mail:	gm.office@tatasteel.com
Mobile:	8092084533
4. Registered Office of the Lessee:	Bombay House, 24 Homi Mody Street Fort, Mumbai
5. Director in charge :	Mr. T.V. Narendran (CEO & Managing Director)
6. Agent :	Mr. Naveen Shrivastava
7. Manager :	Mr. Niranjan Kumar
8. Mining Engineer in charge:	Mr. Niranjan Kumar
9. Geologist in charge :	Mr. Deviprasad Jena
10. Transferor (previous owner), if any, and date of transfer:	

**Uploaded Document**

Upload PMCP Table in Excel: <u>PMCP_Data_of_Saruabil_Chromite_Mine_for_2024-25.xlsx</u>
Upload UAV Survey (KML/KMZ File) : <u>Surface_Plan_as_on_01.04.2025.kmz</u>

**11. Particulars of area operated-Lease**

(Furnish information on items (i) to (vi) lease-wise in case mine workings cover more than one lease)

**Lease - 1**

(i) Lease number allotted by the State Government	061304569301
(ii) Area under lease (hectares):	
Under Forest	241.770 hectares
Outside Forest	5.088 hectares
Total	246.858 hectares
(iii) Date of execution of mining lease deed	26/06/2020
(iv) Period of lease	50
(v) Area for which surface rights are held (hectares)	
Under Forest	238.865 hectares
Outside Forest	3.716 hectares
Total	242.581 hectares
(vi) Date and period of renewal (if applicable)	0



(vii) In case there is more than one mine in the same lease area, indicate name of mine and mineral produced	Mine Name	Mine Code	Mineral Name
	--	--	--

12. Lease area (surface area) utilisation as at the end of year (hectares):	Under forest	Outside forest	Total
(i) Already exploited and abandoned by opencast (O-C) mining	0.000	0.000	0.000
(ii) Covered under current (O-C) Workings	57.316	0.000	57.316
(iii) Reclaimed-rehabilitated	0.000	0.000	0.000
(iv) Used for waste disposal	65.241	0.665	65.906
(v) Occupied by plant, buildings, residential, welfare buildings and roads	26.336	3.051	29.387
(vi) Used for any other purpose (specify) Green Belt, Nala, Safety Zone, Etc.	92.877	1.372	94.249
(vii) Work done under progressive mine closure plan during the year	0.000	0.000	0.000
13. Ownership-exploiting Agency of the mine: (Public Sector-Private Sector-Joint Sector)	Private Sector		



## PART-II (Employment and Wages)

1. Number of supervisory staff employed at the mine		
Description	Wholly employed	Partly employed
(i) Graduate Mining Engineer	7	0
(ii) Diploma Mining Engineer	11	0
(iii) Geologist	1	0
(iv) Surveyor	1	0
(v) Other administrative and technical supervisory staff	29	0
Total:	49	0
2. (i) Number of days the mine worked:		
	309	
(ii) No. of shifts per day:		
	3	
(iii) Indicate reasons for work stoppage in the mine during the year (due to strike, lockout, heavy rain, non-availability of labour, transport bottleneck, lack of demand, uneconomic operations, etc.) and the number of days of work stoppage for each of the factors separately .		
	Reasons	No. of days
	Weekly off	53
	Holidays	3

### 3. Employment and salary-wages paid #:

Maximum number of persons employed on any one day during the year:								
(i) In workings below ground on (date) (a) ( number) 0								
(ii) In all in the mine on (date) 30/04/2024 (a) ( number) 662								
Classification	Total number of man days worked during the year			No. of days worked during the year	Average daily number of persons employed			Total Wages - Salary for the year (₹)
	Direct	Contract	Total		Male	Female	Total	
(1)	2(A)	2(B)	2(C)	(3)	4(A)	4(B)	4(C)	(5)
Below Ground	0	0	0	0	0	0	0	0.00
Opencast	13442	102511	115953	309	373	2	375	102359568.00
Above Ground	155	1880	2035	309	5	2	7	2076276.00
Total:	13597.0	104391.0	117988.0	309.000	378.0	4.0	382.0	104435844.00

# To include all employees exclusive to the mine and attached factory, workshop or mineral dressing plant at the mine site

## PART-II A (Capital Structure)

### 1. Value of Fixed Assets\* (₹ 507522110)

(in respect of the mine, beneficiation plant, mine work-shop, power and water installation)

In case this information is furnished as combined information in another mine's return please specify Mine Code-Mine Name:

Mine Name		Mine Code		Mineral Name		
--		--		--		
Description	At the beginning of the year (₹)	Additions during the Year (₹)	Sold or discarded during the year (₹)	Depreciation during the year (₹)	Net closing Balance (₹) (2+3)-(4+5)	Estimated market value** (₹)
1	2	3	4	5	6	7
(i) Land***	0	0	0	0	0	0
(ii) Building:						
Industrial	14745786	0	0	0	14745786	0
Residential	3586196	0	0	0	3586196	0
(iii) Plant and Machinery including transport equipment	48675873	0	0	2916742	45759131	0
(iv) Capitalised Expenditure such as pre-production exploration, development, major overhaul and repair to machinery etc. (As prescribed under Income Tax Act)	453248657	0	0	9817660	443430997	0
Total:	520256512	0	0	12734402	507522110	0

\* In case the fixed assets are common to more than one mine, furnish combined information for all such mines together in any one of the mine's return. In the returns for other mines, give only a cross reference to the particular mine's return where-in the information is included.

\*\* Optional and may be furnished in respect of items (i), (ii) and (iii) if the mine owner desires.

\*\*\* Including any non-recurring expenditure incurred on the acquisition of land.

### 2. Source of Finance ( at the end of the year ) :

(i) Paid up Share Capital (₹)		0
(ii) Own Capital (₹)		0
(iii) Reserve and Surplus (All Types)(₹)		0
(iv) Long Term loans outstanding (#)(₹)		0
Name of the Institution-Source	Amount of Loan (₹)	Rate of Interest
Nil	0	0

(#) Indicate the names of the lending institutions such as State Finance Corporation, Industrial Development and other Public Corporations, Co-operative Banks, Nationalised Banks and other sources along with the amount of loan from each source and the rate of interest at which loan has been taken.

### 3. Interest and Rent (₹)

(i) Interest paid during the year	0
(ii) Rents (excluding surface rent) paid during the year	0



### PART-III (Consumption of Materials)

1. Quantity and cost of material consumed during the year			
Description	Unit	Quantity	Value (₹)
<b>(i) Fuel</b>			
(a) Coal	Tonnes	0	0
(b) Diesel Oil	Ltrs.	528218	41942019
(c) Petrol	Ltrs.	0	0
(d) Kerosene	Ltrs.	0	0
(e) Gas	Cu.M	0	0
<b>(ii) Lubricant</b>			
(a) Lubricant oil	Ltrs.	2832	1252864
(b) Grease	Kgs.	218	51230
<b>(iii) Electricity</b>			
(a) Consumed	Kwh	2491127	18226850
(b) Generated	Kwh	0	0
(c) Sold	Kwh	0	0
<b>(iv) Explosives (furnish full details in Part IV)</b>			753869
<b>(v) Tyres</b>	Nos.	78	3182506
<b>(vi) Timber and Supports</b>			0
<b>(vii) Drill rods and kits</b>	Nos.	0	0
<b>(viii) Other spares and stores</b>			0

2. Royalty, Rents and Payments made to DMF and NMET (₹):		
	Paid for current year	Paid towards past arrears
(a) Royalty	759177991	0
(b) Dead rent	0	0
(c) Surface rent	1498356	0
(d) Payment made to DMF	92023815	0
(e) Payment made to NMET	18404802	0
3. Compensation paid for felling trees during the year (₹)		0
4. Depreciation on fixed assets (₹)		12734402

5. Taxes and cesses		
	Amount in Rupees paid during the year to:	
	Central Govt.	State Govt.
(i) Sales Tax	407806985	12672515
(ii) Welfare cess	0	0
(iii) Other taxes and cesses:-		
(a) Mineral cess	0	0
(b) Cess on dead rent	0	0
(c) Others (please specify) Electricity Duty, User Fees, Application Fees, Weighment Charges, Surface rent, Etc.	0	1807780
6. Other expenses (₹):		
(i) Overheads		21815701
(ii) Maintenance		0
(iii) Money value of other benefits paid to workmen		0
(iv) Payment made to professional agencies		0

### PART-IV (Consumption of Explosives)

Licensed capacity of magazine: (specify unit separately in kg-tonne, numbers, metres )		<b>Item</b>		<b>Unit</b>		<b>Capacity</b>	
		Explosives		Kg.		0	
		Detonators		No.s		0	
		Fuses		Mts		0	
Classification of Explosives	Unit	Quantity consumed during the year		Estimated requirement during the next year			
		Small dia. (upto 32 mm)	Large dia. (above 32 mm)	Small dia. (upto 32 mm)	Large dia. (above 32 mm)		
1. Gun Powder	Kg.	0		0			
2. Nitrate Mixture							
a. Loose ammonium nitrate	Kg.	0	0	0	0		
b. Ammonium nitrate in cartridged form	Kg.	0	0	0	0		
3. Nitro compound	Kg.	14	0	0	0		
4. Liquid Oxygen soaked cartridges	Kg.	0	0	0	0		
5. Slurry explosives (Mention different trade names)	Kg.	0	14349	0	170940		
6. Detonators							
i) Ordinary	No.s	0		0			
ii) Electrical							
(a) Ordinary	No.s	34		278			
(b) Delay	No.s	0		0			
7. Fuse							
(a) Safety Fuse	Mts	0		0			
(b) Detonating Fuse	Mts	0		0			
8. Plastic ignition cord	Mts	0		0			
9. Others (specify) Nonel	Meters	9112		75029			

Different sizes of soaked liquid oxygen cartridges to be reported in equivalent kg. as per manufacturer's instruction.



## PART-V (General Geology & Mining)

(Items 2 and 3 to be submitted separately for each mineral)

### 1. Exploration

1(i) Exploration activities during the year:

		At the beginning of the year	During the year	Cumulative	Grid spacing- Dimension
Drilling	No of holes	145	18	163	100m X 100m
	Metrage	12388	902	13290	100m X 100m
Pitting	No of pits	0	0	0	0
	Excavation (in m <sup>3</sup> )	0	0	0	0
Trenching	No of trenches	0	0	0	0
	Excavation (in m <sup>3</sup> )	0	0	0	0
	Length covered (in metre)	0	0	0	0
Expenditure on exploration (₹)		23838401	3677454	27515855	0

1(ii). Any other exploration activity during the year:

0

### 2. Reserves and Resources estimated (in tonnes) (CHROMITE).

Classification	Code	At the beginning of the year 1.4.2024 as per latest approved mining plan- scheme	Assessed during the year	Depletion of reserves during the year	Balance resources as on 31.3.2025
(1)	(2)	(3)	(4)	(5)	(6)= (3+4-5)
<b>A. Mineral Reserve</b>					
1. Proved Mineral Reserve	111	3239900	3193292	207678	6225514
2. Probable mineral Reserve	121	0	0	0	0
	122	0	0	0	0
3. Total Reserves		3,239,900.00	3,193,292.00	207,678.00	6,225,514.00
<b>B. Remaining Resources</b>					
1. Feasibility mineral Resource	211	3071730	0	0	3071730
2. Prefeasibility mineral resource	221	0	0	0	0
	222	0	0	0	0
3. Measured mineral resource	331	0	0	0	0
4. Indicated mineral resource	332	0	0	0	0
5. Inferred mineral resource	333	0	0	0	0
6. Reconnaissance mineral resource	334	0	0	0	0
7. Total remaining Resources		3,071,730.00	0.00	0.00	3,071,730.00
<b>Total (A+B)</b>		6,311,630.00	3,193,292.00	207,678.00	9,297,244.00

### 3. Subgrade-Mineral Reject (in tonnes) (CHROMITE)

(Information to be given in respect of mineral fractions generated and stacked- dumped below cut-off grade and above threshold value, if prescribed, having no immediate sale value)

Generation of subgrade-mineral reject (in tonnes)	At the beginning of the year	Generated during the year	Disposed during the year	Total stacked at the end of the year	Average grade of the mineral reject generated
from unprocessed ore	0	0	0	0	0
from processed ore	0	0	0	0	0

### 4. Overburden and Waste (in m<sup>3</sup>)

(Information to be given in respect of overburden- waste and mineral fractions generated below threshold value, if prescribed)

At the beginning of the year	Generated during the year	Disposed in dumps during the year	Backfilled during the year	Total at the end of the year
5555966.01	542287	542287	0	6098253.01

### 5. Trees planted- survival rate

Description	Within lease area	Outside lease area
i) Number of trees planted during the year	480	0
ii) Survival rate in percentage	95	0
iii) Total no. of trees at the end of the year	12336	0

**6. Type of Machinery:** Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc.



Type of machinery	Capacity of each type of machinery	Unit (in which capacity is reported)	No. of machinery	Electrical Non-electrical (specify)	Used in opencast underground (specify)
SHOVEL (HYDRAULIC)	3.200	CUM	3	Non Electrical	Opencast
SHOVEL (HYDRAULIC)	1.800	CUM	1	Non Electrical	Opencast
SHOVEL (HYDRAULIC)	1.330	CUM	1	Non Electrical	Opencast
ROCK DRILL (NON-ELEC.)	110.000	MM	1	Non Electrical	Opencast
BACK HOE	0.320	CUM	1	Non Electrical	Opencast
WHEEL LOADER	3.200	CUM	1	Non Electrical	Opencast
TIPPER	20.500	CUM	18	Non Electrical	Opencast
MOTOR GRADER	196.000	HP	1	Non Electrical	Opencast
WATER TANKER	5000.000	LITRE	1	Non Electrical	Opencast
WATER TANKER	18000.000	LITRE	2	Non Electrical	Opencast
DOZER	200.000	HP	2	Non Electrical	Opencast
PUMPS (ELEC.)	12500.000	L/MN	4	Electrical	Opencast
ELEC. MOTOR	180.000	HP	1	Electrical	Opencast
ELEC. MOTOR	120.000	HP	1	Electrical	Opencast
ELEC. MOTOR	180.000	HP	1	Electrical	Opencast
ELEC. MOTOR	40.000	HP	1	Electrical	Opencast

**7(i) Details of mineral Treatment Plant, if any:** Give a brief description of the process capacity of the machinery deployed and its availability. (Submit Flow Sheet and Material Balance of the Plant separately).

Nil

**(ii) Furnish following information:**

Item	Tonnage	Average Grade
Feed:	0.000	0.000
Concentrates-processed products : (mention name)	0.000	0.000
By-products-Co-products: (mention name)	0.000	0.000
Tailings:	0.000	0.000

## PART-VI (PRODUCTION, DESPATCHES AND STOCKS) (CHROMITE)

(To be submitted separately for each mineral)

(Unit of Quantity in Tonnes)

### 1. Type of ore produced:

(Applicable for Iron ore only; tick mark whichever is applicable)

### 2. Production and Stocks of ROM ore at Mine-head

Category	Opening stock	Production	Closing stock
(a) Open Cast workings	0.000	207678.000	0.000
(b) Underground Workings	0.000	0.000	0.000
(c) Dump workings	0.000	0.000	0.000

### 3(i) Grade-wise ROM ore despatches from mine head (\$):

Grade of ROM	Despatches from mine-head	Ex-mine Price (₹)
(a) Below 40% Cr <sub>2</sub> O <sub>3</sub> ROM	0.000	0.00
(b) 40% to below 52 % Cr <sub>2</sub> O <sub>3</sub> ROM	0.000	0.00
(c) 52% and above Cr <sub>2</sub> O <sub>3</sub> ROM	0.000	0.00

(\$): Applicable for iron ore and chromite only. For other minerals data of despatches to be reported in 3(ii)

### 3(ii) Grade-wise Production, Dispatches, Stocks and Ex-mine prices:

Grades**	Opening stock at mine-head	Production	Despatches from mine-head	Closing stock at mine-head	Ex-mine price (₹-Tonne)
<b>(i) Lumps</b>					
(a) Below 40% Cr <sub>2</sub> O <sub>3</sub>	0.000	0.000	0.000	0.000	0.00
(b) 40% to below 52 % Cr <sub>2</sub> O <sub>3</sub>	0.000	0.000	0.000	0.000	0.00
(c) 52% and above Cr <sub>2</sub> O <sub>3</sub>	0.000	0.000	0.000	0.000	0.00
<b>(ii) Fines</b>					
(a) Below 40% Cr <sub>2</sub> O <sub>3</sub>	39109.571	20817.000	38968.430	20958.141	9593.50
(b) 40% to below 52 % Cr <sub>2</sub> O <sub>3</sub>	52717.407	108050.000	146241.470	14525.937	23742.03
(c) 52% and above Cr <sub>2</sub> O <sub>3</sub>	295324.024	78811.000	65518.510	308616.514	32937.10
(a) CONCENTRATES	0.000	0.000	0.000	0.000	0.00

### 3(iii) In case the mineral is being pulverized in own factory, please give the following particulars (\*):

Grade**	Total quantity of mineral Pulverized (in tonnes)	Total quantity of pulverized mineral produced (for each mesh size)		Total Quantity of pulverized mineral sold during the month		
		Mesh size	Quantity (tonne)	Mesh size	Quantity (tonne)	Ex-factory Sale value (₹)



### 3(iv) Average cost of pulverization (\*) : ₹ per tonne

(\*): Not applicable for Iron ore, Manganese ore, Bauxite and Chromite

### 4. Details of deductions made from sale value for computation of Ex-mine price (₹- Tonne)

Deduction claimed #	Amount ( in ₹- Tonne)	Remarks
(a) Cost of transportation (indicate loading station and distance from mine in remarks)	0.00	Not Applicable
(b) Loading and unloading charges	0.00	Not Applicable
(c) Railway freight, if applicable (indicate destination and distance)	0.00	Not Applicable
(d) Port Handling charges- export duty (indicate name of port)	0.00	Not Applicable
(e) Charges for sampling and analysis	0.00	Not Applicable
(f) Rent for the plot at Stocking yard	0.00	Not Applicable
(g) Other charges (specify clearly)	0.00	Not Applicable
Total (a) to (g)	0.00	

# Not applicable for captive dispatches and ex-mine sales

### 5. Sales- Despatches effected for Domestic Purposes and for Exports:

Grade	Nature of Despatch (indicate whether Domestic Sale or Domestic Transfer or Captive consumption or Export)	For Domestic Purposes				For export		
		Registration number as allotted by the Indian Bureau of Mines to the buyer ##	Consignee name ##	Quantity	Sale value (₹)	Country	Quantity	F.O.B Value (₹)
Below 40% Cr2O3,Fines	CAPTIVE CONSUMPTION	IBM/4376/2011	Tata Steel Limited	1052.850	10599153.30			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/21555/2017	CHROME SAGAR	495.720	5869572.77			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/4178/2011	ANAND EXPORTS	7457.950	78401309.15			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/45726/2023	ADISH MINERALS PRIVATE LIMITED	282.370	3343402.04			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/93/2011	ORISSA CHROME EXPORT & MINING COMPANY LIMITED	495.960	6037970.78			
Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/1129/2011	Jindal Stainless Limited	12470.520	117145761.16			
Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/4376/2011	Tata Steel Limited	1566.120	15939969.36			



Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/5307/2011	AARTI STEELS LIMITED	3441.630	29925826.22			
Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/538/2011	JAI BALAJI INDUSTRIES LIMITED	6503.870	59736851.12			
Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/5771/2011	Tirumala Balaji Alloys Private Limited	5201.440	46843891.02			
40% to below 52 % Cr2O3,Fines	CAPTIVE CONSUMPTION	IBM/4376/2011	Tata Steel Limited	27832.490	648897916.78			
40% to below 52 % Cr2O3,Fines	DOMESTIC SALE	IBM/5110/2011	KHEMKA REFRACTORIES PRIVATE LIMITED	996.350	25535474.13			
40% to below 52 % Cr2O3,Fines	DOMESTIC SALE	IBM/538/2011	JAI BALAJI INDUSTRIES LIMITED	9960.680	278442118.59			
40% to below 52 % Cr2O3,Fines	DOMESTIC SALE	IBM/5771/2011	Tirumala Balaji Alloys Private Limited	2903.200	82986661.14			
40% to below 52 % Cr2O3,Fines	DOMESTIC TRANSFER	IBM/1129/2011	Jindal Stainless Limited	17810.140	401841824.67			
40% to below 52 % Cr2O3,Fines	DOMESTIC TRANSFER	IBM/240/2011	Shyam Metalics & Energy Limited	4557.010	109582419.47			
40% to below 52 % Cr2O3,Fines	DOMESTIC TRANSFER	IBM/4376/2011	Tata Steel Limited	6311.150	151764224.10			
40% to below 52 % Cr2O3,Fines	DOMESTIC TRANSFER	IBM/5307/2011	AARTI STEELS LIMITED	36949.090	865268387.68			
40% to below 52 % Cr2O3,Fines	DOMESTIC TRANSFER	IBM/538/2011	JAI BALAJI INDUSTRIES LIMITED	25731.200	613156448.67			
40% to below 52 % Cr2O3,Fines	DOMESTIC TRANSFER	IBM/5771/2011	Tirumala Balaji Alloys Private Limited	13190.160	294594216.95			
52% and above Cr2O3,Fines	CAPTIVE CONSUMPTION	IBM/4376/2011	Tata Steel Limited	18717.670	659783843.80			
52% and above Cr2O3,Fines	DOMESTIC SALE	IBM/14492/2012	TOTAL SOLUTIONS	485.360	13415986.23			
52% and above Cr2O3,Fines	DOMESTIC SALE	IBM/19350/2015	Prime Industries	296.730	8202005.89			
52% and above Cr2O3,Fines	DOMESTIC SALE	IBM/4386/2011	MINERALS TRADE CORPORATION	199.050	5489968.19			
52% and above Cr2O3,Fines	DOMESTIC SALE	IBM/538/2011	JAI BALAJI INDUSTRIES LIMITED	24766.020	783551337.75			
52% and above Cr2O3,Fines	DOMESTIC SALE	IBM/8555/2012	ALCHROME CHEMICAL INDUSTRIES	144.400	4891069.35			
52% and above Cr2O3,Fines	DOMESTIC TRANSFER	IBM/1129/2011	Jindal Stainless Limited	3629.130	120918940.84			
52% and above Cr2O3,Fines	DOMESTIC TRANSFER	IBM/4376/2011	Tata Steel Limited	3227.760	111697097.76			
52% and above Cr2O3,Fines	DOMESTIC TRANSFER	IBM/5307/2011	AARTI STEELS LIMITED	14052.390	450039452.22			

## To indicate separately if more than one buyer.

NOTE:- Mine owners are required to substantiate domestic sale value- FOB value for each grade of ore quoted above with copy of invoices (not to be submitted with the return; to be produced whenever required)

**6. Give reasons for increase-decrease in production-nil production, if any, during the year compared to the previous year.**

- a) Production as per Business plan within Environment Clearance and Mining Plan limit

**7. Give reasons for increase-decrease in grade wise ex-mine price, if any, during the year compared to the previous year.**

- a) Increase in Below 40% Cr<sub>2</sub>O<sub>3</sub> Fines, 40% to Below 52% Cr<sub>2</sub>O<sub>3</sub> Fines and Above 52% Cr<sub>2</sub>O<sub>3</sub> Fines Price due to negotiated price with customer considering market demand. Ex-Mine price has been calculated as per submitted monthly return in Form F1.

Final Submitted



**PART-VII: COST OF PRODUCTION**  
**Cost of production per tonne of ore-mineral produced**

Sl. No.	Item	Cost per tonne (₹)
(i)	Direct Cost	1118.60
	(a) Exploration	25.77
	(b) Mining	1092.83
	(c) Beneficiation(Mechanical Only)	0.00
(ii)	Over-head cost	105.05
(iii)	Depreciation	61.32
(iv)	Interest	0.00
(v)	Royalty	4380.70
(vi)	Payments made to DMF	438.07
(vii)	Payments made to NMET	87.61
(viii)	Taxes	0.00
(ix)	Dead Rent	0.00
(x)	Others (specify) Bid Premium	25846.15
	Total	32037.50

Note: Information given under Part VII will be kept confidential. The Government, however, will be free to utilize the information for general studies without revealing the identity of the firm.

Mineral Name	Production proposal for financial year 2024 - 2025	Production reported during the financial year 2024 - 2025	Difference
CHROMITE	1000000	207678	792322

I Certify that the information furnished above is correct and complete in all respects.

Place: **Saruabil**  
 Dist: JAJAPUR, ODISHA  
 Pin: 755028  
 Date: **27.06.2025**

Signature



Name in full:

Designation:

Owner-Agent-Mining Engineer-Manager ✓

**Mine Manager**

**Saruabil Chromite Block**  
**Tata Steel Limited**

**From: 136.226.233.104 at 2025-06-26 17:25:01**

Esiged by: Guest  
 Date: 26/06/2025 05:25:03 PM