



Regd. Office: JSW Centre Bandra Kurla Complex,

Bandra (East), Mumbai – 400 051 CIN : L27102MH1994PLC152925

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Website: www.jsw.in

Ref. JSW/S/CO/2025/235(1)

Date: 04/06/2025

To.

The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (Eastern Zone), A/3, Chandersekharpur, Bhubaneswar – 751023

Sub: - Submission of the revised Six-monthly EC compliance report for the **Jajang Iron Ore Mine** of M/s JSW Steel Ltd for the period **October 2024 to March 2025**.

Ref: Environment Clearance Letter F. No. J-11015/96/2012-IA. II (M) dated 13.03.2015 and amendment dated 09.11.2015 issued by MoEFC&CC, GOI.

Respected Sir,

We are submitting herewith the revised six-monthly Environmental Clearance (EC) compliance report for the Jajang Iron Ore Mine of M/s JSW Steel Ltd., for the period October 2024 to March 2025, in accordance with the provisions of the EIA Notification, 2006.

Please note that mining operations at the said project ceased w.e.f. 30.11.2024.

The soft copy of the same is e-mailed to <u>roez.bsr-mef@nic.in</u> for your ready reference. Kindly acknowledge the receipt.

Seeking your co-operation as always.

Thanking you & with regards

For JSW Steel Limited

Authorized Signatory

Encl: As above



Part of O P. Jindal Group





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Copy to:

- 1. Zonal Office Kolkata, Central Pollution Control Board, South end Conclave, Block 502, 5th and 6th Floors, 1582 Razidanga Main Road, Kolkata, West Bengal 700107.
- 2. The Member Secretary, State Pollution Control Board, A/118, Nilakantha Nagar, Bhubaneswar, Odisha-751012.
- 3. The Regional Officer, State Pollution Control Board, Baniapat, DD College Road, Keonjhar, Odisha-758001.
- 4. I.A. Division (Monitoring cell), Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jorbagh road, Aliganj, New Delhi- 110003 (e-mail: moefcc-monitoring@gov.in) for information please.



ENVIRONMENT CLEARANCE COMPLIANCE STATUS - JAJANG MINE

Six Monthly Compliance report of Environmental Clearance for Jajang Iron Ore Mine of JSW Steel Ltd. for the period from- Oct 2024 to March 2025.

Reference letter from MoEF&CC, New Delhi- J-11015/96/2012-IA. II(M), Dt. 13.03.2015 and 09.11.2015.

Capacity- 16.5 MTPA of iron ore (12.8 MTPA ROM by fresh excavation + 3.7 MTPA by collection from old dumps/ mineral stacks).

S. No	EC Conditions	Self - Declaration	Compliance Remarks
A.	Specific Conditions		
1	The dump height should be maintained up to 60 meter and overall slope of the dump shall be up to 30°. The project proponent shall obtain	Complied	The dump height and overall slope of the dump is maintained as per approved final mine closure plan (FMCP). CTE vide letter no. 5113/IND-II-CTE-
	Consent to Establish and Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.		6463 dated 26.03.2021 is in place. CTO issued on dated 31.03.2021 is renewed vide letter no 6972/IND-I-CON-247 on dated 31.03.2025. CTE & CTO has been attached as Annexure I.
3	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	Complied	Site-specific wildlife conservation plan is approved vide letter no. 1842/CWLW-FDWC-FD-0116-2021, Bhubaneswar, dated 25.02.2022. Budget proposed and paid for the same is Rs. 750.768 Lakh. The same is enclosed as Annexure II.
4	The project proponent shall obtain prior approval of the competent authorities for drawl of requisite quantity of surface water and ground water for the project before commencing the mining activity.	Complied	There is no use of surface water. NOC from CGWA for 1000 m3/day is obtained vide NOC number CGWA/NOC/MIN/REN/3/2025/11092 dated 10/03/2025. The copy of the same has been attached as Annexure III.
5	No mining activities are allowed in forest area for which the FC is not available.	Complied	The present mining operation is restricted within FC Transfer area over 447.811 ha (Including 44.70ha forest land already diverted) vide letter No. FE-DIV-FLD-0007- 2022-5306/FE&CC, dated 14.03.2022. FC Transfer letter is attached as Annexure IV .
6	The condition 3(iii)b of the guidelines issued by the Forest Conservation Division in this Ministry vide F. No. 1 1-362/2012- FC dated 1st February, 2013 is not being prescribed in view of Hon'ble Supreme Court order dated 27.01.2014 and the EC is subject to the final order of the	Noted	

	Supreme Court in the matter.		
7	Traffic density on the route of mineral transportation shall be regularly monitored and report shall be submitted along with compliance report.	Complied	In view of the closure of mining operations, vehicular movement associated with mineral transportation has ceased, and no traffic density is expected.
8	As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analyzed for their mineralogical composition and records maintained.	Complied	Mining operations were ceased w.e.f 30.11.2024. Regular ambient air quality monitoring, including analysis of mineralogical composition, has been carried out during the operational phase, and all records have been maintained.
9	Mineral handling plant shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Complied	Mining operations were ceased w.e.f 30.11.2024. Prior to closure, all mineral handling plants were equipped with an adequate number of high-efficiency dust extraction systems to ensure effective dust control.
10	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	Complied	Effective dust control and safeguard measures were implemented during the operational phase of the mine. Mining operations have been completely discontinued and there is currently no generation of fugitive dust.
11	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Complied	A detailed hydrological study of the mine was conducted by M/s GCRS, a CGWA-accredited agency, which assessed the site's hydrogeological regime and recommended appropriate conservation measures. The report has been submitted to the Central Ground Water Authority (CGWA). In line with the recommendations, rainwater harvesting structures, settling ponds, and check dams have been established at the site.
12	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezo meters	Complied	Mining operations are ceased w.e.f 30.11.2024. Groundwater level and quality were monitored once every quarter, during the post-monsoon (November 2024) and

	during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.		winter (January 2025) seasons, as this report covers the period from October 2024 to March 2025. The monitoring reports are attached in Annexure V.
13	The project proponent shall regularly monitor the flow rate of the natural water streams Jalpa, Kakrapani Nallah and Baitarni river and the Suna nadi flowing adjacent to the mine lease and maintain the records.	Complied	Regular monitor of the flow rate of the natural water streams of Jalpa, Kakrapani Nallah, Baitarani River and Sunanadi has been carried out. Reports for the same attached as ANNEXURE V.
14	The reclaimed and rehabilitated area shall be afforested. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly bases.	Complied	Reclamation and afforestation activity is completed in accordance with approved final mine closure plan.
15	Dimension of the retaining wall at the toe of temporary over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Complied	Mining operations were discontinued on 30.11.2024. So far, the retaining wall up to a length of 3323 m (1.5 m height, 1 m width) around the OB dump was constructed and maintained. Retaining wall photos has been attached as Annexure VI.
16	Plantation shall be raised in a specified area including a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around the higher benches of excavated void to be converted in to water body, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around	Complied	A total of 37,809 plantations have been carried out from the year 2020 till date, covering areas such as the safety zone, overburden (OB) dumps, and avenue plantations. Additionally, 3,07,435 plantations were undertaken by the erstwhile lessee prior to the transfer of lease. Photos for the same attached as Annexure VII .

	2500 plants per Ha.		
17	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Complied	Mining activities were ceased w.e.f 30.11.2024. Effective dust suppression measures, including regular water sprinkling in critical areas vulnerable to air pollution, were implemented. Ambient Air Quality (AAQ) parameters were maintained within the permissible limits as prescribed by the Central Pollution Control Board (CPCB). AAQ Monitoring reports are attached as ANNEXURE V.
18	Process water discharge and/or any waste water shall be properly treated to meet the prescribed standards before reuse/discharge. The runoff from temporary OB dumps and other surface run off shall be analyzed for iron and in case its concentration is found higher than the permissible limit, the waste water should be treated before discharge/reuse.	Complied	No process water is being generated from mine. Before the closure of the mines operations, regular Monitoring of the runoff water quality parameters were being carried out. Monitoring reports are attached as ANNEXURE V.
19	The decanted water from the beneficiation plant and slime/tailing pond shall be re-circulated within the mine and there shall be zero discharge from the mine	Not applicable	There is no beneficiation plant constructed in the mine.
20	Regular monitoring of the flow rate of the springs and perennial nallahs shall be carried out and records maintained.	Complied	Regular Monitoring of the flow rate of the springs and perennial nallahs were carried out. Monitoring reports are attached as ANNEXURE V .
21	Regular monitoring of water quality, upstream and downstream of river shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Complied	Regular monitoring of water quality of upstream and downstream were being carried out. Monitoring reports are attached as ANNEXURE V.
22	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.	Complied	A detailed hydrological study of the mine was conducted by M/s GCRS, a CGWA-accredited agency, which assessed the site's hydrogeological regime and recommended appropriate conservation measures. The report has been submitted to the Central Ground Water Authority (CGWA). In line with the recommendations, rainwater harvesting structures, settling ponds, and check dams have been established

			at the	e site.	
			S. No.	Location	Capacity s per report (m³)
			1	Settling Pond near BIL Railway Sliding Pond-1	21280.0
			2	Settling Pond near BIL Railway Sliding Pond-2	36000.0
			3	Recharge well (From roof tops)	1540.0
			4	Check Dam	40,000.00
				photos for the sam hed as ANNEXURE	
23	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	Complied	operat associ has	ew of the closure ions, vehicular ated with mineral treased, and hence alar emissions.	movement ransportation
24	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for workshop and wastewater generated during mining operation.	Complied	provide Capac colony The m	Dil & Grease trap led for workshop a ity 30KLD was pro- nonitoring report for to tached as ANNEXU	nd STP of rovided for the same has
25	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	Complied	Minin High Jajang	g lease boundary supe Resolution Satellite Tron Ore Mine duly v C has been attached a	rimposed on image of etted by M/s
26	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Complied	were statute	to the cessation ions, periodic nations of all engage conducted in according requirements, and natically maintained.	medical ged workers dance with

27	The project proponent shall undertake all the commitments made during the public hearing and effectively address the concerns raised by the locals in the public hearing as well as during consideration of the project, while implementing the project.	Complied	JSW started its Mining operations in Jajang Iron Ore mines on 1st July 2020. Since then, various community development initiatives were implemented to address the concerns raised in PH and for community upliftment.
			JSW has made expenditure in line with the requirement of public hearing points addressed viz. Education- Rs. 371 lakhs, Health care-Rs. 347 Lakhs, Water supply- Rs. 132.92 Lakhs & Infrastructure and peripheral development- Rs. 294 Lakhs in the past
28	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Pan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	Complied	The Site-Specific Wild Life Conservation plan has been approved by PCCF vide letter number 1842/CWLW-FDWC-FD-0116-2021, Bhubaneshwar, dated 25/02/2022. An amount of 750.768 Lakhs is deposited against the outlay.
29	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.		Final mine closure plan for Jajang mine is approved by Indian Bureau of Mines in line with Rule 24 of MCDR 2017. All the provision mentioned there in are completed and IBM has issued approval letter in this effect.

GENERAL CONDITIONS

Sl.	E C Conditions	Self -	Compliance Remarks
No.		Declaration	
1	No change in Iron Ore	Not	There was no change in Iron Ore
	Processing/Beneficiation technology	Applicable.	Processing and no beneficiation plant
	and scope of working should be made		was established.
	without prior approval of the Ministry		
	of Environment & Forests.		

2	No change in the calendar plan including Processing/Beneficiation of	Complied	The mining operations was completely stopped by 30.11.2024.
	mineral iron ore and waste should be made		
3	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 microns i.e., PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The data so recorded should be regularly submitted to the Ministry including its regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.	Complied	Four number of Ambient air quality stations were established in both core zone and buffer zone for monitoring PM10, PM 2.5, SO2, NO2, CO considering the meteorological data, topographical features and environmentally and ecologically sensitive targets. The location and frequency of monitoring is undertaken in consultation with the State Pollution Control Board. The monitoring reports were timely submitted to the SPCB and regional office Bhubaneshwar. The consolidated monitoring report for the period from Oct 2024 to March 2025 is attached as Annexure V
4	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Complied	All the noise generating units in the machinery was provided with padded enclosures for attenuation of noise. Workers engaged were provided with ear plugs.
5	There will be zero waste water discharge from the plant.	Not Applicable	The processing of ore at Jajang Mines was completely a dry process.
6	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.	Complied	Dust mask was given as Mandatory PPE to all the workers.
7	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Complied	Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project were carried out and records are maintained.
8	A separate environmental management cell with suitable qualified personnel should be set- up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied	A dedicated Environment Management Cell was in place where the head directly reported to the Head of the organization. The Organization chart is attached as Annexure X
9	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other	Complied	A Separate cost center earmarked for Environment protection and management measures was in place. And Year wise expenditure is reported to the

	purpose. Year wise expenditure		ministry and the regional office.
	should be reported to the Ministry and		ministry and the regional office.
	its Regional Office located at		
	Bhubaneswar.		
10	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted	The EC of Jajang Iron Ore Mines was awarded to M/s Rungta vide letter no. J-11015/96/2012-IA. II(M), Dt. 13.03.2015 and 09.11.2015. JSW Steel Limited accorded the lease during the auction process and the EC was vested to JSW vide extant rules. At the time of vesting, the project was in operation at the permitted capacity. Accordingly financial closure and start of land development work was started by erstwhile lessee prior to our acquisition.
11	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hardcopies as well as by email) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the 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 the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.	Complied	EC compliance reports are submitted to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board on six monthly basis including the results of monitoring data. The Last six-monthly compliance report submitted was for the period of April 2024 – Sep 2024 vide letter no JSW/S/CO/2024/669 dated 15/11/2024. It is also uploaded in the JSW group website.
12	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied	The EC was granted to the Ex-lessee M/s Rungta vide letter no. J-11015/96/2012-IA. II(M), Dt. 13.03.2015 and 09.11.2015. Communications were made by the Ex-lessee post grant of EC. The EC copy is available in JSWs website.
13	The State Pollution Control Board	-	-
	should display a copy of the clearance		

Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.	Industry Centre and the Collector's office/ Tehsildar's Office for 30 days. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance		Letter at the regional office District	letter at the regional office District		letter at the regional office, District		
The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to	office/ Tehsildar's Office for 30 days. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance							
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Tel: 2564033/2563924 EPABX: 2561909/2562847 E-mail: paribesh1@ospcboard.org Web site: www.ospcboard.org

OFFICE OF THE STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII
Bhubaneswar – 751 012, INDIA

By Speed Post Through online

No. 5113 1

IND-II-CTE-6463

Date 26-03-20211

CONSENT TO ESTABLISH ORDER

In consideration of the online application no. 3180772 for obtaining Consent to Establish for Jajang Iron Ore Mine of M/s JSW Steel Ltd., the State Pollution Control Board is pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 for production of Iron Ore of quantity 12.80 MTPA (ROM) and maximum waste (OB/IB/SB) of quantity 28.589 MTPA along with installation of Crushing, Screening plants and Railway Siding as follows:

SI. No.	Particulars	Existing production capacity of Iron Ore along with capacity of the Crushing, Screening and Railway Siding	Proposed production capacity of Iron Ore along with capacity of the Crushing, Screening and Railway Siding after expansion
1.	Production Capacity	16.5 MTPA (12.8 MTPA ROM by fresh excavation + 3.7 MTPA by collection from old dumps/material stacks)	12.8 MTPA (ROM)
2.	Operation of Stationary Crusher of capacity	CONTRACTOR CONTRACTOR	NA
3.	Operation of Mobile Crusher of capacity	15X100 TPH	3X360 TPH, 2X200 TPH, 1X175 TPH
4.	Operation of Mobile Screen of capacity	7X150 TPH, 12X300 TPH	10X400 TPH, 1X180 TPH, 1X170 TPH
5.	Operation of Stationary Screen of capacity	1X250 TPH	NA
6.	Railway siding of handling capacity of sized iron ore and iron ore fines	7.2 MTPA	18.2 MTPA

over an area of 669.078 ha (as per DGPS Survey)/666.150 ha (as per ROR) land in villages Jajang, Jadibahal, Palsa (Ka), Bandhuabeda, Tehsil Barbil in the district of Keonjhar, Odisha with the following conditions.



- 1. This Consent to Establish is valid for the product, method of mining and capacity mentioned in the application form. This order is valid for five years. The proponent shall do substantial mining activities for the proposal within a period of five years from the date of issue of this Consent to Establish order. If the proponent fails to do substantial mining activities for the proposal within five years then a renewal of this Consent to Establish shall be sought by the proponent.
- The mine shall apply for grant of Consent to Operate under Section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commencement of production and obtain Consent to Operate from this Board.
- No change in mining technology and scope of working shall be made without prior approval of the Board.
- This Consent to Establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.

SPECIAL CONDITIONS:

GENERAL:

- The proponent shall obtain Environmental Clearance as per EIA Notification, 2006 and production activity for the proposal shall be commenced after obtaining Environmental Clearance.
- The mine shall install digital display board at mines main gate for display of environmental information for public view within 15 days.
- 3. The mine shall comply all 09-points action plan as per the CSIR NEERI.
- Solar power generation system shall be installed inside the mining lease hold area.
- The mine shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of Environment Impact Assessment (EIA) report.
- The proponent shall submit six monthly progress report every year (i.e. June and December) of mining activity of the project to the Board (at Head Office and Regional Office) for record and verification.
- The unit shall obtain NOC from CGWA for using of ground water for getting Consent to Operate of State Pollution Control Board, Odisha.
- The proponent shall obtain requisite permission from the Water Resources
 Department, Govt. of Odisha for drawal of water.
- 9. The method of mining shall be Fully Mechanized open cast mining.
- Adequate care shall be taken to prevent creation of ruts and pot holes in the connecting roads.
- Speed limit of dumpers/trucks inside the premises shall not exceed 10 kmph.

- 12. After operation of railway siding, the proponent shall submit an annual return to concerned Regional Office in the prescribed format as per Annexure I by 31st May every year incorporating the quantities and types of materials handled during the preceding financial year (i.e. 1st April to 31st March).
- 13. A green belt of adequate width and density preferably with local species along the periphery of the mine, inactive dumps, backfilled area, vacant area, colony and any other vacant area shall be raised so as to provide protection against particulates and noise to ameliorate the environment. A detailed plantation programme in this regard shall be prepared and submitted at the time of making application for Consent to Operate for assessment.
- 14. The project proponent shall develop greenbelt in 7.5 m 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 MoEF&CC, Govt. of India irrespective of the stipulation made in approved mine plan.
- 15. 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 plating 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.
- 16. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface runoff. 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.
- A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the organization.
- 18. The Board may impose further conditions or modify the conditions stipulated in this order during installation and/or at the time of obtaining consent to operate and may revoke this clearance in case the stipulated conditions are not implemented.
- 19. The above conditions will be enforced, inter-allia, under the provisions of the water (Prevention & Control of pollution) Act, 1974 and Air (Prevention & Control of Prevention) Act, 1981 and Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rule.
- The unit shall abide by Environment (Protection) Act, 1986 and the relevant rules framed thereunder.



WATER POLLUTION:

- Domestic effluent shall be discharged to soak pit via septic tank constructed as per BIS specification.
- Garland drains along with settling pit shall be provided around the iron ore fines stock yard to control washout of fines from the stockyard along with surface runoff.
- 23. Surface run-off from OB dump area, mineral stock yard, top soil storage area and rain water to be pumped from quarry shall be routed through adequate settling pond (designed maximum hourly rain fall basis) to meet prescribed standard of SS 100 mg/l and Oil & Grease-10 mg/l before discharge into natural stream/water courses during monsoon.
- 24. At stockpile and loading plant area, a network of drains shall be constructed at a depth of 1.5 meter below the lowest level on the sites parallel to the stockpile area with interconnected box culverts. The sloping of surface shall be given inward to the stockpiles so that surface water will only infiltrate in to the drain.
- The proponent shall do renovation of existing structure as it was an old mine before going for mining activity.
- Wheel wash facilities are to be provided to minimize transfer of mud from unpaved approach roads to main paved and/or public roads.
- 27. Garland drain shall be provided along the boundary wall at the appropriate places depending upon the slope of the area, inside the railway siding. Provision shall be made for collection of wash water from the garland drain and the water, so collected shall be treated in a sedimentation tank for further use inside the premises for green belt or water sprinkling etc.
- 28. In case the wastewater contains any substance which is harmful to the environment, the same shall be treated to remove the substance so as to meet the prescribed norms.

AIR POLLUTION:

- 29. Fixed auto sprinklers on both sides of major haul road, approach road of Railway siding and approach roads of the mine shall be installed within one month and frequency of water sprinkling through mobile water tankers shall be enhanced at the said areas till installation of fixed auto sprinklers.
- Regular water sprinkling through mobile water tankers shall be carried out at mineral stockpile area, mines approach road and transportation road (Banspani to Bamebari) to avoid generation of dust during movement of vehicles.
- 31. 04 nos. of CAAQM shall be installed within one month as per the vesting CTO order. Fugitive and AAQ monitoring shall be carried out as per vesting CTO order and report shall be submitted to the Board regularly. Online digital display Board fo size 6ftx4ft as per CPCB specification shall be installed at the main entry gate of the mine for public view.
- 32. The proponent shall install one Online Continuous Ambient Air Quality Monitoring Station (CAAQMS) in transportation route inside the mining lease area to monitor PM₁₀, PM_{2.5}, SO₂, NOx, CO and other important parameters for online real time data transmission through GPRS system to SPCB RTDAS server and also upload data to CPCB.



- Drill shall be well operated or with dust extractors and controlled blasting shall be practices. Pre-wetting of blasting site shall be practiced.
- The proponent shall abide by the stipulations made in MoEF&CC, Govt. of India notification No. G.S.R. 809 (E), dated 4.10.2010 (copy enclosed as Annexure – I).
- 35. The primary crusher, screen and secondary crusher shall be placed in covered shed.
 All the conveyor shall be covered with corrugated GI Sheets.
- 36. Both dust suppression (dry fog) and extraction (bag filter) system shall be provided at all dust generating source such as crushing, screening & material transfer points etc. such that, particulate matter concentration in ambient air shall not be more than 1200 μg/m³ at a distance of 25.0 ± 2.0 m from the source of fugitive emission in the predominant down wind direction as per MoEF&CC, Govt. of India notification No. G.S.R. 809(E), dated 04.10.2010 (copy enclosed as Annexure I). Fabric bags and cages in bag house shall be checked regularly and replaced whenever required. Separate online energy meters shall be installed for all the pollution control equipment and centralized records shall be maintained for verification of the Board from time to time.
- 37. The suction points of dust extraction system shall be provided at primary crusher discharge chute, screen, all transfer points, secondary crusher discharge chutes and any other dust generating sources. This system shall be connected to bag filters so that particulate matter emission from the stack shall not exceed 100 mg/Nm³ as per MoEF&CC, Govt. of India Notification no-GSR.-809(E) dated 4th October 2010 (copy enclosed as Annexure-I). Stack height for de-dusting unit shall be calculated as per above notification of MoEF&CC, Govt. of India i.e. H = 74 Q^{0.27} where H and Q are stack height in meter and particulate matter (PM) emission in ton/hr respectively.
- 38. All the product conveyor of the screens shall discharge the product into a hopper and chute arrangement fitted with dust extraction and bag filter system. Chute shall be maximum 3 meter height from the ground level. Fixed auto sprinklers shall be provided in the stock yard of product.
- 39. The mine shall make provision to collect the fine products in hopper instead of heaping by free falling to avoid the dust nuisance. The ore fines shall be stacked properly and systematically with retaining wall at the toe to avoid washings during rain. Ore fine transportation shall be done in covered truck.
- 40. Dust suppression on mine haul roads, active OB dumps and mine working benches shall be done by spraying water through water sprinklers along with chemical binders/wetting agents at frequent interval in order to reduce water consumption and to improve retention and re-absorption capacity of water. Water sprinklers of fixed type shall also be provided at the mine HEMM maintenance shop, other service centers and approach roads from mines to raw material handling & product handling area to prevent the generation of dust to be air borne.
- 41. Adequate measures shall be taken for control of noise levels in the work environment of mine area so that noise levels at the boundary line of mining lease area shall not exceed 75 dB (A) during day time (06:00 AM to 09:00 PM) and 70 dB(A) during night time (09:00 PM to 06:00 AM).
- The crushing unit shall not be operated in the night time between 6.00 PM and 6.00 AM.



- Three Ambient Air Quality Monitoring Stations for 24 hours operation should be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2, NOx and CO monitoring. Location of the stations should be decided in consultation with the State Pollution Control Board. Data on ambient air quality (PM10, PM2.5, SO2, NOx and CO) should be submitted to the State Pollution Control Board once in six months.
- 44. Planting of trees all along the connecting road and regular grading of such road shall be carried out to prevent generation of dust due to movement of dumpers/trucks. Greenbelt of adequate width shall also be provided in the available vacant areas on other side of railway siding
- 45. Retaining wall of 07 meter height shall be provided all along the railway siding.
- 46. The height of material stack within storage areas must be kept below the height of the boundary wall at all times to prevent the material from being air borne.
- 47. Fixed type of water sprinklers shall be provided in the railway siding and stockyard. Sprinkler systems must be maintained and be kept in a good operable condition at all times.
- Dust suppression arrangement shall be provided on approach road by using water sprinklers / mobile water tanker.
- 49. All entry points, internal roads and loading/unloading areas must be adequately compacted for movement of heavy vehicles by using low permeability material and be cleaned regularly to minimize potential of dust generation and off-site impact.
- Proper housekeeping at the material storage areas, loading & dispatch areas, service facilities, etc. shall be practiced.
- Ambient Air Quality inside the premises shall conform to the National Ambient Air Quality Standard prescribed for industrial and mixed used area under the Environment Protection Act, 1986.
- During transportation of material by trucks / tippers / wagons the vehicles shall be properly covered with tarpaulin sheets.

SOLID AND HAZARDOUS WASTE:

- Hazardous waste storage area shall be earmarked before disposal of hazardous waste as per guidelines.
- 54. Top soil should be stacked separately with proper slope at earmarked site (s) with adequate measures and shall be used for reclamation and rehabilitation of mined out areas.
- 55. At stockpile and loading plant area, a network of drains shall be constructed at a depth of 1.5 meter below the lowest level on the sites parallel to the stockpile area with interconnected box culverts. The sloping of surface shall be given inward to the stockpiles so that surface water will only infiltrate in to the drain.
- 56. The OB/waste dumps shall be properly dressed benched stopped at low angle (300) with terracing and bamboo barricades in the slopes making retaining walls stone barriers at the toe of the dumps gully plugging etc. to prevent the solid erosion during monsoon, besides establishing vegetation on dump top as well as its slope surface. In difficult cases, hydro-seedling technique or use of geo-tiles mat embedded with seeds shall be adopted.

57. The proponent shall comply to the provision Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and amended thereafter.

Encl: As above

MEMBER SECRETARY

To,

The Deputy Managing Director, Jajang Iron Ore Mine of M/s JSW Steel Ltd., JSW Centre, Bandra Kurla Complex, Mumbai, Maharastra.

Memo No.	/Date	1
BUTCHEN BUTCH STANDARD OF THE		

Copy forwarded to:

- The Secretary, MoEF&CC, Govt. of India, New Delhi.
- 2. The Secretary Steels & Mines, Govt. of Odisha, Bhubaneswar
- 3. The Director, Directorate of Mines, Govt. of Odisha, Bhubaneswar
- 4. The District Magistrate & Collector, Keonjhar.
- The Deputy Director of Mines, Joda, Keonjhar.
- 6. The DFO, Keonjhar.
- 7. The Regional Officer, SPC Board, Keonjhar.
- 8. Consent to Operate Section, SPC Board, BBSR
- 9. Hazardous Waste Management Cell, SPC Board, BBSR
- 10. Copy to Guard file

CHIEF ENV. ENGINEER

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 4th October, 2010

- G.S.R. 809(E).—In exercise of the powers conferred by Sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following Rules further to amend the Environment (Protection) Rules, 1986, namely:
 - (1) These rules may be called the Environment (Protection) (Sixth Amendment) Rules, 2010.
 - (2) They shall come into force on the date of their publication in the Official Gazette
 - 2. In the Environment (Protection) Rules, 1986, in schedule I, after serial number 17 and the existing entries relating thereto, the following serial number and entries shall be inserted, namely:-

S. No.	Industry	Parameter	Standard		
(1)	(2)	(3)	(4)		
"18		A Emission Standards for	r Stack for De-dusting Unit		
	Iron Ore Mining and	Particulate matter	100 mg/ Nm³		
	Ore Processing	Stack height **	15.0 m		
		H=74 Q ^{0.27} , where H and Q particulate matter (PM) emiss. Q (kg/hr) up to 2.71 2.72 - 7.86 7.87 - 17.96 17.97 - 35.29 Note:- Stack attached to De-d height of 15.0 metres and wou	ig unit shall be calculated as are stack height in metre and ion in tonne/hr respectively, i.e. H (metre) 15 20 25 30 usting unit shall have minimum ld be atleast 2.50 metres above by building/shed or plant in the		
		B. Fugitive Emission Standards			
		Particulate matter	1200 µg/m³		
			pe monitored in the predominant ance 25.0±2.0 metres from the er following:		

1	2	3		4		
		Area	Mo	nitoring location		
		Mine face/ Benches	Drilling, excavation and loading applicable for operating benches above watertable			
		Haul Roads/ Service Roads	o ore processing plant, waste ading areas and service road			
		Crushing plant	Run-off mine unloading at hopper, crus areas, screens and transfer points			
		Screening Plant	Screens, conveying and transportation discharge points Intermediate stock bin/pile areas, ore bin/pile areas, wagon/truck loading area			
		Ore Storage & Loading				
		Waste dump	Active waste/re	eject dumps		
			C. Effluent Sta	ndards		
		pH		5.5-9.0		
		Suspended solids (nor	n-rainy day)	50 mg/l		
		Suspended solids (rain	ny day)	100 mg/l		
		Oil & grease		10 mg/l		
		Note:-				
		effluent. (ii) The aforesaid eff	(i) All efforts shall be made to reuse and re-circulate the effluent. (ii) The aforesaid effluent standards shall be complied visewage, service water, beneficiation of ore washwater and			

[F. No. Q-15017/21/2007-CPW]

RAJNEESH DUBE, Jt. Secy.

Note: The principal rules were published in the Gazette of India vide number S.O. 844 (E) 19th November, 1986; and subsequently amended vide S.O. 433 (E) dated 18th April 1987; S.O. 64 (E), dated the 18th January 1988 and recently amended vide G.S.R. 97(E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March, 2009; G.S.R. 512(E), dated the 9th July, 2009; G.S.R. 543 (E), dated the 22th July, 2009; G.S.R. 595(E), dated the 21st August, 2009; G.S.R. 794 (E), dated the 4th November, 2009; G.S.R. 826 (E), dated the 16th November, 2009; G.S.R. 01 (E), dated the 01st January, 2010; G.S.R. 61 (E), dated the 5th February, 2010; G.S.R. 485(E), dated the 9th June, 2010; G.S.R. 608 (E), dated the 21st July, 2010 and G.S.R. 739 (E), dated, the 9th September, 2010.





CONSENT ORDER AJANG IRON & MANGANESE MINES OF MIS JSW STEEL LTD

BY REGD, POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012

Phone-2561909, Fax: 2562822, 2560955 E-mail: paribesh1@ospeboard.org, Website: www.ospeboard.org

CONSENT ORDER

No. 6972 1

IND-I-CON-247

Dt. 31.03.2035 /

CONSENT ORDER NO. 2942

Sub: Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.

Ref: Your online application No.5230256, Dated 14-12-2023 and No.6185160, Dated 19-02-2025.

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: JAJANG IRON & MANGANESE MINES OF M/S. JSW STEEL LTD.

Name of the Applicant & Designation: SHRI SURESH KUMAR MOHAPATRA, AVP

Address: AT: JAJANG, PO: JURUDI, DIST: KEONJHAR, PIN-758052, ODISHA

This consent order is valid for the period from 01.04.2025 to 31.03.2026.

Details of Products Manufactured

SI. No	Product	Quantity
01.	Iron Ore (ROM)	12.8 MTPA

Details of Mineral Handing Plants /Units

- 01. Railway siding of handling capacity 7.2 MTPA of sized iron ore & Iron ore fines
- 02 Stationary Crushing Plant of capacity 1x600 TPH & 1x150 TPH.
- 03. Mobile Crushing Plant of capacity 15x100 TPH
- 04. Stationary Screening Plant of capacity 1x250 TPH
- Mobile Screening Plant of capacity 12x300 TPH &7x150 TPH

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.



CONSENT ORDER JAJANG IRON & MANGANESE MINES OF MIS JSW STEEL LTD

A, Discharge permitted through the following outlet subject to the standard

Outlet	Description of outlet	Point of discharge	Quantity of discharge	Prescribed Standard				
No.				рН	TSS (mg/l)	BOD (mg/l)	Fecal Coliform (MPN/ 100ml)	Oil & Grease (mg/l)
01	Septic tank (Domestic effluent)	Soak pit	•••	5.5-9.0	200	100	**	
02	Mine drainage water/ surface runoff/other	On land / inland surface		5.5-9.0	100 (Rainy day)	-	10- 0 /	10
	wastewater	body			50 (Non- Rainy day)			20 m

B. Fugitive Emission Standards

Particulate Matter	1200 μg/m³			
	shall be monitored in the predominant downwind direction at a distance e source of fugitive emission as per following :			
Area	Monitoring Location			
Mine face / Benches	Drilling, excavation and loading applicable for operating benches above water table			
Haul Roads/ Service Roads	Haul roads to ore processing plant, waste dumps and loading areas and service road.			
Crushing plant	Run-off mine unloading at hopper, crushing areas, screens and transfer points.			
Screening plant	Screens, conveying and transportation of ore discharge points.			
Ore storage and loading	Intermediate stock bin / pile areas, ore stock bin / pile areas, wagon / truck loading areas.			
Waste dump	Active waste / reject dumps			

C. Disposal of solid waste permitted in the following manner

SI. No.	Type of Solid waste	Quantity generated (TPD)	Quantity to be reused on site(TPD)	Quantity to be reused off site(TPD)	Quantity disposed off (TPD)	Description of disposal site.
01	Top soil/ over burden	As per approved mining plan	-		*	As per approved mining plan

ODISHA

CONSENT ORDER JAJANG JRON & MANGANESE MINES OF MIS JSW STEEL LTD

D. GENERAL CONDITIONS FOR ALL UNITS

- The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground for liable to review/variation/revocation of the consent order under section 27 of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
- The occupier would immediately submit revised application for consent to operate to this Board in the event of
 any change in the quantity and quality of raw material / products / manufacturing process or quantity /quality of
 the effluent rate of emission / air pollution control equipment / system etc.
- The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
- 4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order without any negligence on his/her part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law.
- The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
- The issuance of this consent does not convey any property right in either real or personal property or any
 exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor
 any infringement of Central, State laws or regulation.
- This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
- The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
- An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
- 10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
- 11. The applicant shall display suitable caution board at the place where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
- Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
- 13. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
- 14. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
- 15. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed impervious.
- 16. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
- 17. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
- If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the occupier must adopt alternate satisfactory treatment and disposal measures.
- 19. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
- The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
- 21. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Acts or Rules made therein.

ODISHA CONTRACTOR

CONSENT ORDER

JAJANG, IRON & MANGANESE, MINES OF MIS JSW STEEL LTD

- The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.
- 23. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
- No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.
- 25. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner so as to meet the standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
- The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time.
- There shall not be any fugitive or episodal discharge from the premises.
- 28. In case of such episodal discharge/emissions the occupier shall take immediate action to bring down the emission within the limits prescribed by the Board and stop the operation of the plant if required. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
- 29. The applicant shall keep the premises and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
- 30. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned shall be reported to the Headquarters and Regional Office of the Board by E-mail within 2 hours of its occurrence.
- 31. The occupier has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
- 32. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the shall be disposed off scientifically to the satisfaction of the Board.
- 33. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by:
 - Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
 - ii) Controlled incineration, wherever possible in case of combustible organic material.
 - iii) Composting, in case of bio-degradable material.
- 34. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
- 35. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
- The applicant, his/heirs/legal representatives or assignces shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
- The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
- 38. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
- The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
- The occupier shall comply to the conditions stipulated in CTE order issued by Odisha State Pollution Control Board and conditions stipulated in Environmental Clearances issued by MoEF&CC, Govt. of India.
- 41. The occupier shall abide by E(P) Act, 1986 and Rules framed there-under.
- 42. In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.



CONSENT ORDER

GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs.50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).

- The applicant shall analyse the emissions every month for the parameters indicated in Table. B & C as mentioned in this order and shall furnish the report thereof to the Board by the 10¹⁵ of the succeeding month.
- 2 The applicant shall provide and maintain at his own cost three ambient air quality monitoring stations for monitoring Suspended Particulate. Matter, Sulphor Dioxide. Oxides of Nitrogen, Hydro-Carbon, Carbon-Monoxide and monitor the same once in a day/week/fortright/month. The data collected shall be maintained in a register and a monthly extract be furnished to the Board.
- 3. The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, direction, temperature. humidity, rainfall, etc. and the daily reading shall be recorded and the extract sent to the Board once in a month
- 4 The applicant shall forward the following information to the Member Secretary, State Pollution Control Board, Odisha, Bhubaneswar regularly.
 - Report of analysis of stack monitoring, ambient air quality monitoring meteorological data as required every month.
 - Progress on planting of trees quarterly.
- 5. The applicant shall install mechanical composite sampling equipment and continuous flow measuring / recording devices on the effluent drains of trade as well as domestic effluent. A record of daily discharge shall be maintained.
- ė. The following information shall be forwarded to the Member Secretary on or before 10th of every month.
 - Performance / progress of the treatment plant.
 - b. Monthly statement of daily discharge of domestic and/or trade effluent.
- Non-compliance with effluent limitations
 - If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
 - 10 Causes of non-compliance
 - (ii) A description of the non-compliance discharge including its impact on the receiving waters.
 - Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
 - TV) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
 - V) Steps to be taken by the applicant too prevent the condition of non-compliance.
 - The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any efficient limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.
 - Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not C) such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.
- The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analysed at an approval laboratory every month for the parameters indicated in Part-D and shall submit in duplicate the report thereof to the Board. 8
- The addition of various treatment chemicals should be done only with mechanical dozers and proper equipment for regulation of correct dozages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or trickling of acids or alkalies arbitrarily and utilizing poles for strring etc. should not be resorted to. 9
- 10 In the disposal of treated efficient on land for irrigation, the industry shall keep in view of the need for
 - a) Rotation of crops
 - b) Change of point of application of effluent on land
 - c) A portion of land kept fallow.
- 11 The adoption of these would avoid soil becoming sick or state, the industry may ensure this in consultation with the Agriculture Department.
- It is the sole responsibility of the industry to ensure that there are no complaints at any time from the royats in the surrounding areas as a 12. result of discharge of sewage or trade effluent it any.
- Proper housekeeping shall be maintained by a dedicated team. 13
- 14. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including right hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned. Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately



CONSENT ORDER , JAJANG IRON & MANGANESE MINES OF MIS 18W STEEL LTD

E. (1) SPECIAL CONDITIONS:(for the mine and railway siding):

- This consent order is subject to compliance of orders of the Hon'ble Supreme Court of India in the matter of W. P. (Civil) 114/2014.
- 2. This consent order is subject to permission from Steel and Mines Department. Government of Odisha for continuing of mining operation.
- Mining operation is subject to availability of all other statutory clearances, and the statutory 3.
- The mine shall confine its activity within the previous lease area of 666.15 ha as 4 EC & CTE are not yet obtained for the new lease deed executed over increased area of 669.078 ha. A declaration to this effect shall be submitted to the Board within C7 days.
- 5. Drills shall either be operated with dust extractors or equipped with water injection system to minimize dust generation in the work environment.
- 6. Controlled biasting shall be practiced to minimize generation of dust and fly rocks.
- Regular water sprinkling shall be carried out in critical areas prone to air pollution 7. such as around crushing and screening plant. Water sprinkling shall also be carried out on haul roads at frequent interval so that it should always remain in wet condition. Haulage roads shall be devoid of ruts and potholes and shall be maintained properly to avoid generation of dust during movement of vehicles.
- Dust suppression measures preferably dry fog system shall be provided at all 8. appropriate places of mineral handling plants (crusher & screening plant). Loading and unloading areas including all the transfer points shall also have efficient dust suppression arrangements (dry fog system). These shall be properly maintained and operated:
- Fixed auto sprinklers shall be provided on both sides of major haul road and approach road of the mine and inside railway siding. Frequency of water sprinkling through mobile water tankers shall be increased till installation of fixed sprinklers.
- 10. Wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine. The wheel washing facility shall be integrated with complete recirculation system.
- 11. The vehicles carrying ore for transportation from the mine shall be covered with tarpaulin (both bottom & top).
- Fog cannon of at least 40 m throw shall be deployed at fine ore stock piles and loading areas in the mine.
- A truck parking plaza shall be developed with its runoff management facilities.
- Regular water sprinkling on mineral transportation roads passing through the habitation area as well as other strategic point on the National Highway shall be done jointly by the mining lessees in consultation with the Regional Officer.

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CONSENT ORDER JANG IRON & MANGANESE MINES OF MIS JSW STEEL LTD

- 15. Regular water sprinkling shall be done on approach roads, stockpiles, railway siding area and transportation road (Banspani to Bamebari) to suppress fugitive dust during plying of vehicles.
- 16. Four Ambient Air Quality Monitoring Stations shall be established in core zone and buffer zone for monitoring of ambient air quality and location of the stations shall be decided in consultation with the Regional Officer, State Pollution Control Board based on the metrological data, topographical features and environmentally and ecologically sensitive targets.
- 17. The monitoring of ambient air quality shall be carried out twice in a week (24 hourly) at a particular site and the consolidated data shall be submitted to the State Pollution Control Board, once in a year.
- The ambient air quality shall remain within prescribed national ambient air quality standards.
- 19. Four Continuous Ambient Air Quality Monitoring Stations (CAAQMS), with data transfer facility to SPCB server shall be established in core and buffer zone. The locations of these stations shall be decided in consultation with the Regional Officer, State Pollution Control Board, based on metrological data, topographical features and environmentally and ecologically sensitive targets.
- The CAAQMS shall be properly maintained and calibrated from time to time to ensure that spurious data are not transmitted to the SPCB server.
- 21. Fugitive Dust Emission Monitoring shall be carried out at the places as stated in Part-B of this order. The monitoring of fugitive dust shall be carried out twice in a week (24 hourly) at a particular site and consolidated data shall be submitted to the State Pollution Control Board, once in a year.
- 22. The topsoil generated shall be stored at earmarked site (s) only and stabilized with plantation or shall be used for land reclamation and plantation.
- 23. The over burden generated during the course of mining shall be stacked at earmarked dump site (s) and stabilized with plantation or used for reclamation of excavated land followed by plantation.
- 24. The project proponent shall ensure that no natural watercourse and / or water resources are obstructed due to any mining operations.
- 25. Check dams and check weirs shall be constructed at appropriate places of the mine lease area to prevent direct flow of runoff to nearby water bodies. The surface run off water from the existing runoff management system shall meet the prescribed standards as stated in SI. 2 of Part-A of this order.
- 26. Retention wall shall be constructed at the toe of topsoil dump and OB dump. Garland drain shall be constructed around topsoil dumps, over burden dumps, mineral stack yards and railway siding area terminating at settling pit to prevent direct disposal of runoff to nearby water bodies.

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CONSENT ORDER

- 27. Garland drain and sedimentation pit shall be de-silted after monsoon or as and when required. The runoff discharge quality from runoff management system shall meet the standards prescribed as stated in SI. 2 of Part-A of this order.
- 28. Domestic effluents shall be treated in a sewage treatment plant (STP) and or shall be discharged to soak pit via septic tank constructed as BIS specification. The treated wastewater quality of STP shall remain within the following standards and shall be used for plantation:

pH - 6.5 -9.0 TSS - <100 mg/l BOD - 30 mg/l

Fecal Coliform - <1000 MPN/100 ml.

29. ETP comprising of oil and grease trap with sedimentation pit shall be provided for treatment of workshop effluent and treated effluent shall remain within the following prescribed standards and shall be re-used for washing of vehicles:

> pH - 6.5 -8.5 TSS - 50 mg/l Oil & Grease - 10 mg/l COD - 150 mg/l

- 30. Regular monitoring of water quality of upstream and downstream of surface water bodies existed if any within 5 Km shall be carried out once in every month and record shall be maintained and submitted to the State Pollution Control Board once in every year. Monitoring shall be carried out through MoEF & CC accredited laboratory.
- 31. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the Board quarterly.
- The mine shall take necessary action for compliance with the air and water quality standards as stipulated in Part-A and Part-B of this order.
- 33. Adequate measures shall be taken for control of noise levels in the work environment of mine area so that noise levels at the boundary line of mining lease area shall not exceed 75 dB(A) during day time (6.00 AM to 9.00 PM) and 70 dB(A) during night time (9.00 PM to 6 AM).
- 34. Adequate noise barriers shall be provided surrounding the crushing and screening plants to control noise pollution and avoid impact on wildlife due to operation of crushing and screening plants during night hours.
- Online noise monitoring system shall be installed to monitor noise level during night hours.
- Protective barriers shall be provided for the lights to prevent illumination towards the forest area during night hours.

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CONSENT ORDER

JAJANG IRON & MANGANESE MINES OF M/S JSW STEEL LTD

- 37. Ambient air quality monitoring data, noise monitoring data and water / wastewater quality monitoring data shall be electronically displayed at the entry point of the mine or at a suitable location of the mine.
- 38. The height of the stack connected to DG sets of capacity more than 800 KW (1000 KVA) shall conform to the following:
 - i) 14Q^{0.3}, Q = Total SO₂ emission from the plant in kg/hr.
 - ii) Minimum 6m. above the building where generator set is installed.
 - iii) 30 m.
- 39. The height of the stack connected to DG set of capacity less than and upto 800 KW (1000 KVA) shall conform to the following:
 - i) H = h+0.2√KVA
 - ii) h= Height of the building where it is installed in meter
 - iii) KVA = Capacity of DG set
 - iv) H = Height of the stack in meter above ground level.
- 40. All DG sets installed before 1.7.2004 shall be scrapped. DG sets complying with either State-I or Stage-II emission norms shall reduce Particulate Matter Emission by 70% by installing RECD without affecting any other emission parameters as per the CPCB guidelines and Board's letter vide No.17927, dated 14.11.2023 and letter No.7146, dated 10.05.2024, in this regard.
- 41. Plantation of trees shall be undertaken in the colony/ township, over top soil dumps, OB dumps, along the side of haul road and in other areas of the mines not being utilized for mining activities. The mine shall take up avenue plantation and plantation in nearby village areas in consultation with DFO/Horticulture Department. The plantation details shall be submitted to the Board before end of April every year.
- A copy of the annual return (annual return submitted to IBM, Govt. of India/ Directorate of Mines, Govt. of Odisha) shall be submitted to this Board every year.
- The environmental statement report shall be submitted to the Board in prescribed format every year.

E. (2) SPECIAL CONDITIONS: (for railway siding)

- All entry points, internal roads and loading/unloading areas must be adequately compacted for movement of heavy vehicles by using low permeability material and be cleaned regularly to minimize potential of dust generation and off-site impact.
- A boundary wall of at least 3 meter height shall be constructed along the periphery
 of the railway siding to prevent the dust particles from being air borne and/or
 getting carried away with surface runoff to nearby water bodies.
- The height of material stack within storage areas must be kept below the height of the boundary wall at all times to prevent the material from being air borne.
- All mineral storage areas containing fines or dusty materials must be either;
 - (a) Covered with tarpaulins when not in use or
 - (b) Fitted with Water Sprinkling/Dry fog systems.

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CONSENT ORDER

- Green belt of adequate width (at least one row of trees) shall be developed along the boundary of railway siding.
- At the material storage areas, atomized stationery mist spray of water or conditioning of material with water shall be practiced to prevent dust getting air borne during loading/unloading.
- Appropriate transfer chutes shall be provided at material discharge points at material storage areas, loading points etc. to minimize the discharge height and spread of air borne dust.
- 8. Garland drain shall be provided along the boundary wall at the appropriate places depending upon the slope of the area, inside the railway siding. Provision shall be made for collection of wash water from the garland drain and the water, so collected shall be treated in a sedimentation tank for further use inside the premises for green belt or water sprinkling etc.
- After operation of railway siding, the mine shall submit an annual return to concerned Regional Office in the prescribed format as per Annexure-I by 31st May every year incorporating the quantities and types of materials handled during the preceding financial year (i.e.1st April to 31st March).

MÉMBER SECRETARY STATE POLLUTION CONTROL BOARD, ODISHA

TO,

SHRI SURESH KUMAR MOHAPATRA, AVP, JAJANG IRON & MANGANESE MINES OF M/S. JSW STEEL LTD., AT/PO: JAJANG, PS: BAMEBARI DIST- KEONJHAR, PIN-758052

Memo No.	/Dt.

Copy forwarded to:

- i) Regional Officer, State Pollution Control Board, Keonjhar.
- ii) District Collector, Keonjhar
- iii) Director of Mines, Govt. of Odisha, Bhubaneswar
- Director, Environment-cum-Special Secretary, F, E & CC Dept., Govt. of Odisha, Bhubaneswar.
- v) D.F.O., Keonihar
- vi) Deputy Director of Mines, Joda
- vii) Chief Env. Scientist, Central Lab. SPCB, Bhubaneswar
- viii) Addl, Chief Env. Engineer, (Hazardous Waste Management Cell)
- ix) Guard File

CHIEF ENV. ENGINEER (M)
STATE POLLUTION CONTROL BOARD, ODISHA



CONSENT ORDER

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS



CONSENT ORDER JAJANG JRON & MANGANESE MINES OF M.S. JSW STEEL LTD

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS PART – A: EFFLUENTS

SI. No.	Parameters	Standards					
		Inland surface	Public sewers	Land for irrigation	Marine Costal Areas		
		(a)	(b)	(c)	(d)		
1.	Colour & odour	Colourless/ Odourless as far as practible		See 6 of Annex-1	See 6 of Annex-1		
2.	Suspended Solids (mg/l)	100	600	200	a. For process wastewater – 100 b. For cooling water effluent 10% above total suspended matter of influent.		
3.	Particular size of SS	Shall pass 850		-	20 1 2 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1		
5.	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0		
6.	Temperature	Shall not exceed 5°C above the receiving water temperature	-	HF.	Shall not exceed 5°C above the receiving water temperature		
7.	Oil & Grease mg/l max.	10	20	10	20		
8.	Total residual chlorine	1.0	HF.		1.0		
9.	Ammonical nitrogen (as N) mg/l max.	50	50		50		
10.	Total Kajeldahl nitrogen (as NH ₃) mg/1 max.	100	#		100		
11.	Free ammonia (as NH ₃) mg/1 max.	5.0	ET-S	37.5	5.0		
12.	Biochemical Oxygen Demand (5 days at (20°C) mg/1 max.	30	350	100	100		
13.	Chemical Oxygen Demand, mg/1 max.	250	50%)	7	250		
14.	Arsenic (as As) mg/1 max.	0.2	0,2	0.2	0.2		
15.	Mercury (as Hg) mg/1 max.	0.01	0.01	7	0.001		
16.	Lead (as pb) mg/1 max.	01.	1.0	-	2.0		



CONSENT ORDER HAJANG DRON A MANGANESE MINES OF MS JSW STEEL LTD

SI. No.	Parameters	Standards					
NO.	1	Inland surface	Public sewers	Land for irrigation	Marine Costal Areas		
		(a)	(b)	(c)	(d)		
17.	Cardmium (as Cd) mg/1 max.	2.0	1.0	-	2.0		
18.	Hexavalent Chromium (as Cr + 6) mg/l max.	0.1	2.0	-	1,0		
19.	Total Chromium (as Cr) mg/l max.	2.0	2.0	**	2.0		
20.	Copper (as Cu) mg/l max.	3.0	3.0	. 	3.0		
21.	Zinc (as Zn) mg/l max.	5.0	15	275	15		
22.	Selenium (as Sc) mg/l max.	0.05	0.05	346	0.05		
23.	Nickel (as Nil) mg/l max.	3.0	3.0	***	5.0		
24.	Cyanide (as CN) mg/l max.	0.2	2.0	0.2	0.02		
25.	Fluoride (as F) mg/l max.	2.0	15	-	15		
26.	Dissolved Phosphates (as P) mg/l max.	5.0	**	**	-		
27.	Sulphide (as S) mg/l max.	2.0	**		5.0		
28.	Phennolic compounds as (C ₆ H ₅ OH) mg/l max.	1.0	5.0		5.0		
29.	Radioactive materials a. Alpha emitter micro curle/ml. b. Beta emitter micro	10 ⁷	10 ⁷	10 ⁸	10 ⁷		
30.	curle/ml. Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent		
31	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l		
32.	Iron (Fe)	3 mg/l	3 mg/l	75.	3 mg/i		
33.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	**	- 0.2 mg/l -		
34,	Nitrate Nitrogen	10 mg/l		-	20 mg/l		



CONSENT ORDER JAJANG JRON & MANGANESE MINES OF MIS JSW STEEL LTD

NATIONAL AMBIENT AIR QUALITY STANDARDS

SI.	Pollutants	Time		Concentrate of Ambient Air		
No.		Weighed Average	Industrial Residential, Rural and other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement	
(1)	(2)	(3)	(4)	(5)	(6)	
1.	Sulphur Dioxide (SO ₂), µg/m ³	Annual *	50	20	-Improved west and Gaeke	
	(1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	24 Hours **	80	80	- Ultraviolet fluorescence	
2.	Nitrogen Dioxide (NO ₂), µg/m ³	Annual *	40	30	- Modified Jacob & Hochheiser (Na-Arsenite)	
		24 Hours **	80	80	- Chemiluminescence	
3.	Particulate Matter (size less than 10µm) or	Annual *	60	60	- Gravimetric - TOEM	
	PM ₁₀ μg/m ³	24 Hours **	100	100	- Beta Attenuation	
4.	Particulate Matter (size less than 2.5µm) or	Annual *	40	40	-Gravimetric - TOEM	
	PM _{2.5} μg/m ³	24 Hours **	60	60	- Beta Attenuation	
5.	Ozone (O ₃) µg/m ³	8 Hours **	100	100	- UV Photometric - Chemiluminescence	
		1 Hours **	180	180	- Chemical Method	
6.	Lead (Pb) µg/m ³	Annual * 24 Hours **	0.50	1.0	-AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. - ED-XRF using Teflon filter	
7.	Carbon Monoxide (CO) mg/m ³	8 Hours **	02	02	- Non Dispersive Infra Red (NDIR)	
	DESCRIPTION OF STREET	1 Hours **	04	04	Spectroscopy	
8.	Ammonia (NH ₃) μg/m ³	Annual*	100	100	-Chemiluminescence	
	300	24 Hours**	400	400	- Indophenol Blue Method	
9.	Benzene (C ₆ H ₆) μg/m ³	Annul *	05	05	-Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis	
10.	Benzo (a) Pyrene (BaP)-Particulate phase only, ng/m ³	Annual*	01.	01	-Solvent extraction followed by HPLC/GC analysis	
11.	Arsenic (As), ng/m ⁵	Annual*	06	06	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper	
12.	Nickel (Ni),ng/m ³	Annual*	20	20	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper	

^{*} Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

²⁴ hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.



CALL TO SELECT THE PROPERTY OF THE PARTY OF

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

Government of Odisha, Forest, Environment & Climate Change Department PRAKRUTI BHAWAN, PLOT NO.1459, SAHEED NAGAR, BHUBANESWAR-751007
Phone: 0674-2602250, Website: www.wildlife.odisha.gov.ln. Email: odishawildlife.@gmail.com

No. 1842 / CWLW-FDWC-FD-0116-2021 Bhubaneswar, Dated the 25 JL February, 2022

To

M/s JSW Steel Limited, JSW Centre Bandra Kurla Complex, Bandra West, Mumbal – 400051

Sub: Approval of Site Specific Wildlife Conservation Plan for Jajang Iron Ore mine of M/s JSW. Steel Ltd. in Keonjhar Forest Division of Keonjhar District

Sir,

It is to intimate that you have to implement one Site Specific Wildlife Conservation Plan for the above project in compliance to Standard ToR No.16 & 18 for Mining project and ToR No.26 (i) to (iii) as per Recommendation of CSIR-NEERI Report on "Carrying Capacity Study for Environmentally Sustainable Iron & Manganese Ore Mining Activity in Keonjhar, Sundargarh and Mayurbhanj districts of Odisha State" prescribed by MoEF&CC, IA Division vide their letter in F.No.J-11015/57/2020-IA.II(M) dt 05.02.2021 while considering the expansion proposal of the above project.

The Site Specific Wildlife Conservation Plan in respect of the above project is hereby approved with financial forecast of \$750.768 lakh (Rupees seven crore fifty lakh seventy-six thousand eight hundred) only for implementation of activities in project impact area as detailed in the approved plan. The total cost of \$750.768 lakh (Rupees seven crore fifty lakh seventy-six thousand eight hundred) only may kindly be deposited in State CAMPA fund for implementation of activities in project impact area by the DFO, Keonjhar Division and DFO, Bonal Division as per jurisdiction.

It is further requested to take note of the following conditions for future compliance.

The Plan may be revisited after 5 years and the User Agency will give undertaking to contribute

towards the revised cost of the Conservation Plan till the project period, if any.

Should there be need for Site Specific Wildlife Conservation Plan after expiry of the present plan
period, the User agency shall submit another such plan at least one year before the expiry of the
present Conservation Plan and deposit the outlay amount upon its approval. In case of delay, it
Will be dealt as per law for violations of Forest (Conservation) Act, 1980/ Environment (Protection)
Act, 1986.

 The User Agency shall give an undertaking to bear the differential cost in case of enhancement of wage rate during implementation of the Plan.

Encl: Copy of approved SSWLCP

Principal CCF (WL) & CWLW, Odisha

Memo No. 1843 /dt 25.02 2021 Copy forwarded for information and necessary action to the -

- 1. Special Secretary to Government of Odisha, FE&CC Department, Bhubaneswar
- Principal Chief Conservator of Forests, Odisha
- 3. Regional CCF, Rourkela Circle with reference to his memo No.3699 dt 14.12.2021

4. DFO, Keonjhar/ Bonai Division alongwith a copy of the approved SSWLCP

Principal CCF (WL) & CWLW, Odisha



No



STATE FOREST HEADQUARTERS, ODISHA OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS & HOFF PLOT NO. GD-2/12, ARANYA BHAWAN, CHANDRASEKHARPUR BHUBANESWAR-751023

E-mail-: nodal.pcefhoff@odisha.gov.in / nodal.pcefodisha@gmail.com

7755 /9F (MG) - 75/2021 Dated, Bhubaneswar the 34 th April' 2023

To

The Divisional Forest Officer Keonihar Forest Division

Sub: Adjustment of Rs 25,88,62,100/- (CA-Rs.11,37,00,400/-, ACA- Rs.7,00,84,900/- + SSWCP- Rs.7,50,76,800/-) demanded amount against already deposited amount of Rs.38,58,39,000/- towards lump sum amount @7.50 lakh/ha (for total forest area within the ML) in respect of Jajang Iron Ore Mines of M/s JSW Steel Limited.

Ref-: (i) Memo No. 430 dated 10.02.2023 of RCCF, Rourkela Circle.

(ii) Representation No. JSW/S/O/B/2023/10 dated 27.03.2023 of the Authorized Signatory, M/s JSW Steel Limited.

In inviting a reference to the subject cited above, it is to inform you that basing on Gol, MoEF & CC (FC Division) guideline issued vide F.No.11-97/2018-FC dated 31.03.2020, letter issued vide F. No. 8-17/2001-FC (Vol.) dated 11.11.2022, the total demanded amount of Rs 25,88,62,100/- may be adjusted against already deposited amount of Rs.38,58,39,000/towards lump sum amount @7.50 lakh/ha (for total forest area within the ML) in respect of Jajang Iron Ore Mines of M/s JSW Steel Limited.

The adjustments may also be carried out in a similar manner for any other amount, if demanded in future, pertaining to the said project and records may be kept accordingly.

The same shall be followed scrupulously.

Principal Chief Conservator of Force 124 Forest Diversion & Nodal Officer, FC Act

Memo No. 7756 Dt. 24 04.2023 Copy forwarded to the Steel & Mines Department / Director of Mines and Geology /Collector, Keonjhar for favour of kind information & necessary action.

Principal Chief Conservator of Fores 24 25 Forest Diversion & Nodal Officer, FC Act

Memo No. 7757 Di 34 04 2033
Copy forwarded to the Additional Chief Secretary to Government, FE&CC Department for favour of kind information & necessary action.

Principal Chief Honservator of Horas Forest Diversion & Nodal Officer, FC Act

Memo No. 7758 Di 24 64.2023

Copy forwarded to the PCCF (WL) & CWLW, Odisha, Prakruti Bhawan, Plot No. 1459, Saheed Nagar, Bhubaneswar-751007 for favour of kind information & necessary action.

Principal Chief Conservator 311 of esta Forest Diversion & Nodal Officer, FC Act

Memo No. 7759 101. 24 04.2023

Copy forwarded to the RCCF, Rourkela Circle for information & necessary action with reference to his Memo No. 430 dated 10.02.2023.

Principal Chief Colis 2 Whom De Vorests
Forest Diversion & Nodal Officer, FC Act

Memo No. 7760 /DL 24 84 2023

Copy forwarded to the Authorized Signatory, M/s JSW Steel Ltd, Plot No.3, Forest Park, Sishu Bhawan Square, Bhubaneswar-751009 for information and necessary action.

Principal Chief Conservator of Forest Diversion & Nodal Officer, FC Act

Annexure- III



भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Pı	roject Name	١٠			M/s R	unata	Mines	Limited	٦					9	2 A		
	roject Addre									iana	Iron	And Mar	nganee	o Mi	no		
	•	:55.		M/s Rungta Mines Limited, Jajang Iro Palasa(kha) Blo								e ivii	ne				
	llage:				_	. ,					Bloc		oda	100			
Di	istrict:				Kendı	Kendujhar State: Odisha											
Pi	in Code:																
C	ommunicatio	on Addres	ss:			M/s Rungta Mines Limited, Rungta Office Main Road, Barbil, , Kendujhar, Odisha - 758035											
A	ddress of Co	GWB Reg	jional	Office :								stern Re a, Odisha			l Bhaw	an, Kha	ndagiri
1.	NOC No.:		CGW	/A/NOC	/MIN/R	EN/3/2	025/1	11092	23	2.	Date	e of Issu	ience	10	/03/202	25	
3.	Application	Application No.: 21-4/203/OR/MIN/2009 4. Catego (GWRI					egory: /RE 202	4)	Sa	fe							
5.	Project Sta	atus:		ing Wit uirment	h Additio	onal Gr	ound	Water		6.	NO	C Type:		Re	Renewal		
7.	Valid from	1:	09/12	2/2023		8. Valid up to:					08	/12/202	25				
9.	Ground W	ater Abstr	actior	n Permi	tted:	June .))										
	Fresh	Water			Saline	Water	r			De	wateı	ing			Т	otal	
	m³/day	m³/ye	ar	m³.	/day	day m³/year m³/day			ay		m³/yea	r	m³/	/day	m ³	/year	
	1000.00	365000	0.00	13					764.	00		278860.	00	176	4.00	643	860.00
10.	Details of	ground wa	ater al	bstracti	on /Dew	atering	g stru	ctures									
			Tota	al Exist	ing No					F			Total P	rop	osed N	lo	
			1	DW	DCB	BW	TW	MP	М	Pu	DV	/ DCE	3 B\	N	TW	MP	MPu
	Abstraction	Structure	e*	0	0	7	0	0		0	0	0	C)	0	0	0
	Dewatering	Structure	e*	0	0	0	0	0		0	0	0	C)	0	2	0
*DV	V- Dug Well; D	CB-Dug-cun	n-Bore	Well; BW	/-Bore We	ell; TW-T	ube W	ell; MP-M	ine Pit	;MPı	ı-Mine	Pumps					
11.	1. Ground Water Abstraction/Restoration Charges paid							(Rs.):					61	1468	00.00		
12. Environment Compensation (if applicable) pa							(Rs.)	:						0.0	00		
13. Number of Piezometers(Observati constructed/ monitored & Monitorin								No. of	Piezo	ome	ters		Monit	torin	g Mech	nanism	
												Manual	DWL	R**	DWLF	R With T	elemetry
	**DWLR - Dig	gital Water L	evel R	ecorder					2			0	1			1	

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in



(Compliance Conditions given overleaf) This is an auto generated document & need not to be signed.



Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act. 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation cture/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- sible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water,
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 1 ne NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 railing which penalty!E.//cancellation of NOC shall be imposed as the case may be.

 31) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ falled BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency agency agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India) https://cgwa-noc.gov.in

Application No,:	21-4/203/OR/MIN/2009	Date of Issuence:10/03/2025
Name of Firm:	M/S RUNGTA MINES LIMITED	
AppType Category:	Manganese ore	
Application Type:	Mining	0)
PAN/GSTIN No. of Firr	n/Individual: /	C/A.

S N		Description		Amount (Rs.)
1.	Appl	ication Processing Fee	(1)	5000.00
2.	Grou	nd Water Abstraction charges	1000	6146800.00
3.	Grou	nd Water Restoration charges	0	
4.	Envi	ronmental Compensation Charges (ECRGW)		
5.		lty for non-Compliance of NOC conditions lition to be mentioned	50000.00	
6.	Adjus	tment Charges	11.	
7.	Reba	te	0	
8.	Charg	ges for correction/modification in the existing issued	d No Objection Certificate	
	S.No.	Description	Rate	
	(i)	Change in User ID	Rs. 1000	
	(ii)	Change in firm Name	Rs. 5000	
	(iii)	Extension of No Objection Certificate	Rs. 5000	
	(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000	
	(v)	Issuance of corrigendum to No Objection Certificate		
	(vi)	Any other items/correction etc.		

This is an system generated invoice, hence, does not require ink signed.

Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- JEHNI RALL GROUND WATER ANTHORRY ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary CGWA. New Delhi

GOVERNMENT OF ODISHA

FOREST, ENVIRONMENT & CLIMATE CHANGE DEPARTMENT

No.FE-DIV-FLD-0007-2022- 5306 /FE&CC, Date 14 - 03 29

10F (Cons) 106/2013

From

Sri Lingaraj Otta

OSD-cum-Special Secretary to Government

To

The Principal Chief Conservator of Forests & HoFF, Odisha,

Bhubaneswar.

Sub: Transfer of FC approval granted under the Forest (Conservation) Act, 1980 for mining lease from Old lessee M/s Rungta Mines Ltd to new Lessee M/s JSW Steel Ltd as per the provision of the Mines and Minerals (Development and Regulation) Amendment Act, 2021 in respect of Jajang Iron Ore Block under Keonjhar Forest Division, Barbil Tahasil, Dist-Keonjhar for diversion of 447.811 ha of forest land (including 44.70 ha Revenue forest land already diverted)-Compliance of Final approval Order regarding.

Sir,

I am directed to invite a reference to your letter No.1751/9F(MG)-75/2021 dtd.31.01.2022 seeking transfer of FC approval granted under the Forest (Conservation) Act, 1980 for mining lease from Old lessee M/s Rungta Mines Ltd to New lessee M/s JSW Steel Ltd as per the provision of the Mines and Minerals (Development and Regulation) Amendment Act, 2021 in respect of Jajang Iron Ore Block under Keonjhar Forest Division, Barbil Tahasil, Dist-Keonjhar for diversion of 447.811 ha of forest land (including 44.70 ha Revenue forest land already diverted) and with reference to letter File No.FC-11/112/2020-FC (Pt) dtd.07.07.2021 of Govt. of India, MoEF&CC, FC Division, New Delhi.

After careful consideration of the proposal of PCCF & HoFF, Odisha and in pursuance of the guidelines issued by Govt. of India, MoEF &CC vide File No. FC-11/112/2020-FC (Pt) Dated 7th July, 2021, the transfer of approval granted by Govt. of India, MoEF&CC under Section 2 of the Forest (Conservation) Act.



FE-DIV-FLD-0007-2022/1/2022

de

1980 vide F. No.8-88/98-FC (Vol) dtd.28.08.2014 from the erstwhile User Agency M/s Rungta Mines Ltd to M/s JSW Steel Ltd is hereby accorded by the State Govt. for non-forestry use of 447.811 ha of forest land for mining in Jajang Iron Ore Block under Keonjhar Forest Division, Barbil Tahasil, Dist-Keonjhar, Odisha subject to fulfilment of the following conditions.

- DGPS Survey of 447.811 ha of diverted forest area is to be ensured by DFO, Keonjhar Forest Division in field before handing over the area.
- ii. The DFO, Keonjhar Forest Division shall upload the KML files of the area under diversion and the accepted non-forest land for raising Compensatory Afforestation in the e-green watch portal of FSI before handing over forest land to the new lessee.
- iii. Erstwhile lessee has deposited the NPV over 543.528 ha forest land which includes the diverted forest area of 447.811 ha. The amount deposited by the new lessee @ Rs.7.50 Lakh per ha is the lumpsum amount realized by State Government on issue of LoI (for the total forest area within the mining lease), which may be adjusted towards balance NPV and any compensatory levies payable in future.
- iv. The new lessee shall furnish an undertaking to pay the additional NPV, if so determine, as per the decision of the Hon'ble Supreme Court of India.
- v. The new lessee shall also comply the non-complied conditions and if any pointed out by the Govt. of India, MoEF &CC, IRO, Bhubaneswar after conducting the inspection of the area for the appraisal of compliance of approval granted under Forest (Conservation) Act, 1980.
- vi. The new lessee, after ceasing mining operation, shall undertake re-grassing the mining area and any other areas 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.
- vii. Forest Clearance over 102.938 ha forest land will be transferred to the new lessee after issue of FC transfer order and forest clearance over 344.873 ha will be transferred to the new lessee after acceptance of the CA land by the DFO, Keonjhar Forest Division as per the extant procedure for acceptance of CA land.
- viii. The new lessee shall have to submit the fresh diversion proposal for the balance forest area of 96.105 ha (99.052 ha as per DGPS) for seeking approval under Section 2 (ii) of FC Act, 1980.
- ix. Execution of project activities by the new lessee will be subject to availability of all other statutory clearances required under relevant Acts/Rules for this mining project and compliance of Court's order, if any.

Yours faithfully
OSD-cum-Special Secretary to Government

Memo No. 5307 /FE&CC, Date 19-03-22
Copy forwarded to the Assistant Inspector General of Forests (FC), Government of India, Ministry of Environment, Forests & Climate Change (F.C. Division), Indira Paryavaran Bhawan, Alinganj, Jor Bagh Road, New Delhi-110003 for information and necessary action. OSD-cum-Special Secretary to Government
Memo No. 5308 /FE&CC, Date 14-03-29
Copy forwarded to the Deputy Director General of Forests (Central), Govt. of India, MoEF&CC, IRO, A/3, Chandrasekharpur, Bhubaneswar for information and necessary action.
OSD-cum-Special Secretary to Government
Memo No. 5309 /FE&CC, Date 19-03-29
Copy forwarded to the Principal Chief Conservator of Forests (Wildlife), Chief Wildlife Warden, Odisha / Principal Chief Conservator of Forests (FD&NO), FC Act, O/o PCCF & HoFF, Odisha for information and necessary action. OSD-cum-Special Secretary to Government Memo No5310_/FE&CC, Date19-08-99
Copy forwarded to the Regional Chief Conservator of Forests, Rourkela Circle / Divisional Forest Officer, Keonjhar Forest Division for information and
necessary action. OSD-cum-Special Secretary to Government
Memo No. 5911 /FE&CC, Date 19-03-22
Copy forwarded to Steel & Mines Department / R&DM Department/ Director Environment-cum-Special Secretary to Government, FE&CC Department / Director of Mines, Odisha / Member Secretary, SPCB, Odisha/ Collector, Keonjhar for information and necessary action. OSD-cum-Special Secretary to Government
Memo No. 5312 /FE&CC, Date 14-03-22
Copy forwarded to the Authorized Signatory, M/s JSW Steel Ltd, Plot No.3,

Forest Park, Sishu Bhawan Square, Bhubaneswar-751009 for information and

necessary action.

OSD-cum-Special Secretary to Government

Memo No. 5313 /FE&CC, Date _

Copy forwarded to M/s Rungta Mines Ltd, Chaibasa, Dist-West Singhbhum, Jharkhand-833201 / M/s Rungta Mines Ltd, Main Road, Barbil, Dist-Keonjhar, Pin-758035, Odisha for information and necessary action.

OSD-cum-Special Secretary to Government

SUMMARY

OF

ENVIRONMENTAL MONITORING REPORT (OCTOBER 2024 TO MARCH 2025)

FOR

JAJANG IRON ORE MINE

DISTRICT—KEONJHAR, ODISHA

OF



M/S JSW STEEL LIMITED, ODISHA

ENV MONITORING CARRIED OUT

 \mathbf{BY}



Ecomen Mining Pvt. Ltd.
(An approved Laboratory from MoEF & CC & NABL)
B-1/8, Sector-H, Aliganj, Lucknow 226 024 (U.P.)
Phone No.: (91-522) 2746282; Fax No.: (91-522) 2745726
E-mail: contactus@ecomen.in



Environmental Monitoring Report- Jajang Iron Ore Mines of M/s JSW Steel Limited, Odisha during the period (OCTOBER 2024 to MARCH 2025)

1. Ambient Air Quality Lease Area

Si.	Location	Month	Concentration	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
No.				μg/m ³	μg/m ³	μg/m ³	μg/m ³	mg/m ³
			Maximum	72.9	24.6	18.9	18.9	0.64
		OCT'24	Minimum	65.2	18	16.1	15.1	0.55
			Average	68.3	21.3	17.3	16.9	0.6
			Maximum	76.8	26.8	20.6	18.9	0.64
		NOV'24	Minimum	71	20.1	16.1	15.1	0.55
			Average	73.6	23.4	18.3	16.9	0.6
			Maximum	75.8	26.9	18.9	18.9	0.63
		DEC'24	Minimum	68.7	18.5	16.1	15	0.56
1.	Near Mines		Average	71.6	22.8	17.3	16.7	0.6
	Office	1431205	Maximum	77.8	26.9	21	18.8	0.64
		JAN'25	Minimum	70	20.3	16.1	15	0.55
			Average	73.7	23.8	18.0	16.9	0.6
			Maximum	78.2	26.9	20.6	18.9	0.63
		FEB'25	Minimum	70.5	20.1	16.2	15.1	0.55
			Average	74.3	23.6	18.1	17.0	0.6
			Maximum	71.4	24.6	14.8	28.5	1
		MARCH'25	Minimum	52.3	16.2	10.3	21.3	0.64
			Average	60.3	21.6	13.0	24.9	0.8
		0.07712.4	Maximum	72.3	24.9	18.9	18.9	0.6
		OCT'24	Minimum	65.1	18.3	16.1	15	0.55
			Average	67.5	21.3	17.4	17.0	0.6

Si.	Location	Month	Concentration	PIlio	PM2.5	SO2	NO2	CO
No.				μg/m ³	μg/m³	μg/m³	μg/m³	mg/m^3
			Maximum	77.0	26.8	20.9	19.8	0.6
		NOV'24	Minimum	70.3	20	16.2	15.1	0.55
			Average	73.7	23.5	17.8	16.9	0.6
			Maximum	75.9	26.8	20.4	18.9	0.6
		DEC'24	Minimum	68.1	18.9	16.1	15	0.55
	Entry And Exit		Average	71.5	22.4	17.6	17.0	0.6
2.	Gate		Maximum	77.4	26.3	20.8	18.2	0.6
2.		JAN'25	Minimum	70.8	20	16.1	15.1	0.55
			Average	73.9	23.3	18.3	16.6	0.6
			Maximum	78.9	26.9	20.7	18.5	0.6
		FEB'25	Minimum	70	20.1	16	15.1	0.55
			Average	74.5	23.4	18.0	16.7	0.6
			Maximum	68.6	28.5	18.6	28.2	0.9
		MARCH'25	Minimum	54.7	18.5	10.3	21.3	0.58
			Average	61.8	22.5	14.1	24.4	0.8
			Maximum	72.4	24.9	18.9	19.0	0.6
		Oct'24	Minimum	65	18.2	16.1	15.7	0.55
			Average	67.7	21.2	17.7	17.3	0.6
		27. 10.4	Maximum	76.8	26.8	20.8	18.8	0.6
		Nov'24	Minimum	70	20.1	16	15.1	0.55
3.	Guest House		Average	73.9	23.2	18.0	17.1	0.6
		D 124	Maximum	75.7	26.8	18.8	18.9	0.6
		Dec'24	Minimum	68.2	18.9	16	15.1	0.55
			Average	72.2	22.2	17.6	17.3	0.6
		1207	Maximum	77.6	25.8	20.5	18.9	0.6
		Jan'25	Minimum	68.2	18.9	16.1	15.1	0.55
			Average	73.5	22.1	17.9	17.4	0.6

Sl.	Landing	Mandh	Concentration	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
No.	Location	Month	Concentration	μg/m³	μg/m³	μg/m ³	μg/m³	mg/m^3
			Maximum	78.9	26.1	21.0	18.7	0.6
		Feb'25	Minimum	70	20.2	16	15.2	0.55
			Average	74.7	23.3	18.3	17.0	0.6
			Maximum	70.6	24.6	18.6	26.5	0.9
		March'25	Minimum	54.7	18.5	10.3	21.3	0.58
			Average	61.5	21.2	14.4	23.4	0.8
			Maximum	72.7	24.8	18.8	18.7	0.6
		Oct'24	Minimum	65.8	18.2	16.1	15.1	0.55
			Average	68.1	21.9	17.7	16.8	0.6
			Maximum	76.8	26.9	20.5	18.8	0.6
		Nov'24	Minimum	70.4	20.1	16.1	15.1	0.55
	Near Work Shop		Average	74.0	23.7	18.1	17.1	0.6
			Maximum	76.0	26.9	19.5	19.0	0.6
4•		Dec'24	Minimum	68.4	18.8	16.5	15	0.56
			Average	71.7	22.8	17.7	17.0	0.6
		Jan'25	Maximum	77.7	26.4	19.5	18.9	0.6
			Minimum	68.4	18.8	16	15.2	0.56
			Average	72.3	22.7	17.7	17.2	0.6
			Maximum	78.9	26.8	20.5	18.9	0.6
		Feb'25	Minimum	70.3	20.1	16.3	15.6	0.55
			Average	74.6	23.1	18.2	17.4	0.6
			Maximum	84.0	41.1	19.0	39.0	0.9
		March'25	Minimum	61.2	24.6	13.77	28.65	0.66
			Average	73.9	33.7	15.9	34.3	0.8
			24 Hrly	100	60	80	80	4 (1Hrly)
СРСВ	S Standard		Annual Average	60	40	40	50	

2. Ambient Air Quality Buffer Area

Si.	Location	Month	Concentration	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
No.				μg/m ³	μg/m ³	$\mu g/m^3$	μg/m ³	mg/m ³
			Maximum	43.2	16.6	12.9	12.9	0.41
		Oct'24	Minimum	34.5	11	10.7	10.1	0.31
			Average	38.8	13.5	11.7	11.5	0.35
			Maximum	44.7	20.8	12.8	12.9	0.43
		Nov'24	Minimum	40	14.3	9.3	10.2	0.3
			Average	42.2	17.2	10.8	11.9	0.35
			Maximum	41.6	12.3	12.2	13	0.4
		Dec'24	Minimum	36.5	10.4	9	10	0.31
1.	Jajang Village		Average	37.9	11.5	11.0	11.4	0.35
			Maximum	41.5	21.4	11.7	12.8	0.42
		Jan'25	Minimum	38.6	14.7	9.5	10.1	0.32
			Average	40.0	17.3	10.8	12.0	0.35
			Maximum	41.7	20.6	12.7	12.9	0.41
		Feb'25	Minimum	39.3	14.7	10.1	10.4	0.32
			Average	40.2	16.8	11.3	12.0	0.38
			Maximum	76.3	34.5	19.4	36.4	0.61
		March'25	Minimum	59.8	22	13.2	26.2	0.43
			Average	67.3	27.9	16.2	30.2	0.53
			Maximum	40.7	13.8	12.5	13	0.43
		Oct'24	Minimum	34.4	11.1	9.4	10.1	0.33
			Average	36.6	12.2	11.5	10.8	0.37

Si.	Location	Month	Concentration	PIlio	PM2.5	SO2	NO2	CO
No.				μg/m³	μg/m ³	μg/m³	μg/m³	mg/m ³
			Maximum	44.3	18.9	12.5	12.2	0.41
		Nov'24	Minimum	40.2	14.4	9.5	10.1	0.32
			Average	42.0	16.8	11.4	11.0	0.37
			Maximum	41	14.7	12.6	13	0.41
		Dec'24	Minimum	34.2	11	9.5	10.9	0.31
	Jaribahal Village		Average	37.0	12.9	10.8	11.9	0.34
2.			Maximum	40.5	21.3	12.5	12.4	0.42
2.		Jan'25	Minimum	38.1	15.4	9.5	10.1	0.31
			Average	39.2	17.2	11.3	11.3	0.38
		T 1 10 5	Maximum	41.8	21.9	12.1	12.7	0.42
		Feb'25	Minimum	38.5	14.3	9.2	10.2	0.3
			Average	40.4	18.2	10.3	11.1	0.35
			Maximum	70.3	31.5	20.2	34.4	0.63
		March'25	Minimum	62.4	18.1	15.2	26.5	0.46
			Average	66.2	23.0	17.9	30.1	0.55
		0.124	Maximum	43.9	14.4	12.7	12.5	0.41
		Oct'24	Minimum	35.4	10.5	9.3	10.3	0.3
			Average	38.5	12.2	10.9	11.6	0.36
		27 224	Maximum	44.8	20.4	13	12.7	0.4
		Nov'24	Minimum	40.5	14.8	9.3	10.1	0.3
3.	Bandhabeda		Average	42.4	17.1	10.8	11.4	0.34
	Village	D 124	Maximum	39.8	13.9	11.6	12.9	0.4
		Dec'24	Minimum	34.9	12	9.5	11	0.33
			Average	38.1	12.9	10.6	11.8	0.37
		Jos. 22.5	Maximum	41.4	21.7	12.3	12.9	0.41
		Jan'25	Minimum	38.6	15.5	9.1	10	0.31
			Average	40.1	18.7	10.7	11.7	0.35

Sl.	T4!	N/I 4]-	C	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
No.	Location	Month	Concentration	μg/m³	μg/m³	μg/m³	μg/m³	mg/m³
			Maximum	40.1	19.9	11.2	12.5	0.43
		Feb'25	Minimum	38.4	15	9	10.1	0.31
			Average	39.3	17.5	10.1	11.2	0.36
			Maximum	79.3	28.6	21.4	34	0.64
		March'25	Minimum	60.5	21.1	12.5	24.2	0.57
			Average	69.7	25.6	17.8	28.1	0.61
			Maximum	43.9	19.6	12.8	13.2	0.42
		Oct'24	Minimum	37.1	10.2	9.4	10.1	0.3
			Average	41.7	13.1	11.0	11.7	0.36
			Maximum	44.7	21.3	12.6	12.6	0.42
		Nov'24	Minimum	40.7	14.2	9.5	10.7	0.32
			Average	43.3	18.3	10.9	11.5	0.36
		Dec'24	Maximum	40.6	14.7	12.4	12.8	0.38
4•	Kamalpur Village		Minimum	34.1	10.3	9.1	10.1	0.31
	, mage		Average	36.8	11.9	10.9	11.6	0.35
			Maximum					
		Jan'25	Minimo	41.3	21.7	13	12.9	0.42
			Minimum	38.2	16.3	9.2	10.1	0.33
			Average	39.6	18.7	10.8	11.4	0.38
		D 1.05	Maximum	41.7	21.8	12	12.9	0.4
		Feb'25	Minimum	38.2	14.2	9.4	11.2	0.31
			Average	40.3	18.4	10.7	12.1	0.35
			Maximum	76.3	34.5	19.2	36.4	0.61
		March'25	Minimum	62.5	22.6	13.2	26.2	0.43
			Average	69.4	28.1	16.2	30.2	0.50

3. Fugitive Emission Monitoring ($\mu g/m^3$)

SI. No.	Month	Screen Plan	nt/Smita Plant	Waste Dump	/Hatipit area	Mines Face Bench		
		Max	Min	Max	Min	Max	Min	
1.	Oct'24							
		717.8	653.3	717.2	658.3	706.5	665	
2.	Nov'24							
		735.3	656.1	724.2	655.8	733	652.7	
3.	Dec'24							
		710.4	644.5	718.5	667.2	717.8	641	
4.	Jan'25							
		698.1	653.2	713.8	672.3	736.3	662.6	
5.	Feb'25		270.7					
		724	652.5	730.8	663.3	732.6	652.5	
6.	March'25	776.8	729.5	704.7	757.2	901	720	
	Six Month	//0.8	729.5	794.7	/5/.2	801	728	
	Average	727.1	664.9	733.2	679.0	737.9	667.0	
Sl. No.	Month	Crush	er Plant	Ore storage &	Loading Point		ge Road/Road o-2	
		Max	Min	Max	Min	Max	Min	
1.	Oct'24							
		721.8	647.4	716.2	646	692.9	641.8	
2.	Nov'24	727.1	668.8	727.5	656	731.5	651.2	

3.	Dec'24						
		723.7	656.5	707.9	642.6	724.9	682.3
4.	Jan'25						
		733.1	660.7	735.9	659.3	731	682.1
5.	Feb'25						
		737.2	652.2	734.2	658.3	712.8	664.1
6.	March'25						
		793	752.2	791.6	710.7	775.2	703.5
	Six Month						
	Average	739.3	673.0	735.6	662.2	728.1	670.8

4. ILLUMINATION MONITORING (Lux)

	Oct	24	Nov	24	Dec	24
LOCATION	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
Workshop Area	135.0	124.0	124.0	112.0	118.0	101.0
Screen Plant	112.3	104.8	142.1	121.8	97.3	80.8
Haul Road	78.3	68.9	81.3	68.9	78.3	68.9
Loading Point	88.5	83.9	78.5	45.9	85.5	67.9
Crusher Plant	119.3	95.4	129.3	115.4	110.3	94.4
Parking Yard	89.7	96.4	83.0	97.0	89.7	92.4
Permanent Path	58.6	84.0	48.6	850	68.6	84.0
Electric Substation	102.5	123.7	142.5	153.0	92.5	83.7
Rest Shelter	45.0	44.0	85.0	48.0	47.0	54.0
Mines Bench Foot Path	35.4	55.8	54.4	42.8	94.4	88.8
	Jan	25	Feb 2	5	March	25
LOCATION	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
Workshop Area	102.0	85.0	102.0	65.0	180.0	90.0
Screen Plant	77.3	82.8	75.3	81.8	142.0	115.0
Haul Road	74.3	68.4	72.3	65.4	75.0	50.0
Loading Point	80.5	64.9	80.5	64.9	125.0	65.0
Crusher Plant	100.3	84.4	98.3	84.4	153.0	130.0
Parking Yard	89.7	92.4	86.7	72.4	112.0	75.0
Permanent Path	67.6	74.0	67.6	74.0	50.0	30.0
Electric Substation	90.5	68.7	90.5	68.7	140.0	90.0
Rest Shelter	40.0	34.0	45.0	44.0	75.0	40.0
Mines Bench Foot Path	94.7	78.8	94.7	75.8	48.0	35.0

5. Noise Level {dB(A)}

A. Ambient Noise Monitoring

Location	Oc	t 24	No	v 24	De	c 24	Standards	
	Leq Day	Leq Night	Leq Day	Leq Night	Leq Day	Leq Night	Leq Day	Leq Night
GUEST HOUSE AREA	52.5	40.4	52.5	42.4	58.3	43.0	55 dB(A)	45 dB(A)
EAST BOUNDARY	63.7	52.6	65.5	61.6	59.3	40.8	75 dB(A)	70 dB(A)
WEST BOUNDARY	64.6	54.4	67.7	61.1	55.0	41.4	75 dB(A)	70 dB(A)
NORTH BOUNDARY	62.2	52.6	69.5	62.7	57.6	43.7	75 dB(A)	70 dB(A)
SOUTH BOUNDARY	59.2	52.4	68.8	61.5	52.5	40.3	75 dB(A)	70 dB(A)
Location	Jaı	n 25	Feb 2	5	March	25	Stan	dards
	Leq Day	Leq Night	Leq Day	Leq Night	Leq Day	Leq Night	Leq Day	Leq Night
GUEST HOUSE AREA	54.3	42.7	52.3	41.5	46.4	36.1	55 dB(A)	45 dB(A)
EAST BOUNDARY	69.3	52.8	69.3	60.1	66.4	50.8	75 dB(A)	70 dB(A)
WEST BOUNDARY	65.0	51.4	66.7	60.8	54.8	40.3	75 dB(A)	70 dB(A)
NORTH BOUNDARY	67.6	53.7	66.9	61.5	67.5	62.5	75 dB(A)	70 dB(A)
SOUTH BOUNDARY	62.5	50.3	66.8	61.4	57.1	40.0	75 dB(A)	70 dB(A)

B. Source Noise Monitoring

CORE ZONE		Oct 2	24			Nov	24	
	Week-1	Week-2	Week-3	Week-4	Week-1	Week-2	Week-3	Week-4
		<u>Leq</u>				<u>Le</u>	<u>q</u>	
DUMPER	71.5	71.3	73.1	70.8	70.3	69.6	67.9	68.8
LOADER	67.3	67.2	71.5	67.6	72.5	71.6	70.9	67.2
CRUSHER PLANT	72.7	73.6	72.3	70.5	68.2	67.7	71.7	73.7
SCREEN PLANT	71.1	71.1	69.2	70.3	73.3	69.4	70.6	71.1
MINES OFFICE	67.7	69.7	67.7	72.6	69.8	72.2	73.0	67.3
EXCAVOTAR	73.5	68.9	67.7	73.2	67.0	68.2	71.9	72.8
DOZER	73.5	70.3	72.8	68.1	70.6	70.3	72.4	67.0

CORE ZONE		Dec 2	24			Jan	25	
	Week-1	Week-2	Week-3	Week-4	Week-1	Week-2	Week-3	Week-4
		<u>Lec</u>	1			<u>Le</u>	<u>q</u>	
DUMPER	67.7	72.8	67.3	70.7	72.5	70.9	68.1	68.5
LOADER	68.6	67.6	71.2	69.1	73.0	69.2	67.2	72.6
CRUSHER PLANT	70.9	69.7	73.9	70.1	70.7	74.0	68.0	68.8
SCREEN PLANT	73.2	71.4	71.3	73.6	69.3	70.3	70.2	73.0
MINES OFFICE	70.9	67.4	69.7	67.6	67.6	73.6	69.8	67.7
EXCAVOTAR	72.7	68.4	71.1	70.6	71.4	70.7	68.0	67.4
DOZER	68.9	69.5	67.8	72.3	70.9	67.9	69.5	68.1
CORE ZONE		Feb 2	25			Marc	h 25	
	Week-1	Week-2	Week-3	Week-4	Week-1	Week-2	Week-3	Week-4
		Lec	<u> </u>			<u>Le</u>	q	
DUMPER	71.2	71.0	73.5	71.5	71.85	63.12	-	-
LOADER	70.3	72.5	69.5	71.8	69.23	66.95	-	-
CRUSHER PLANT	73.1	69.2	71.3	68.0	72.55	64.33	-	-
SCREEN PLANT	71.7	68.8	68.8	71.1	69.03	68.11	-	-
MINES OFFICE	67.2	73.7	70.9	73.6	68.23	58.6	-	-
EXCAVOTAR	69.8	71.1	72.4	72.9	66.68	68.5	-	-
DOZER	68.8	70.6	71.9	70.0	67.08	67.8	-	-

6. Surface Water Quality

JAJANG IRON OR	E MINE							
Baitarini River Up	Stream							
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for Stream Water Standards
PH	-	6.92	6.80	6.75	6.85	6.89	6.93	6.5-8.5
Total Dissolved Solids	mg/l	276.0	284.0	280.0	294.0	297.0	245.0	1500
BOD	mg/l	10.5	11.50	10.0	12.0	16.0	2.4	3
DO	mg/l	6.2	6.5	6.4	6.6	6.7	5.7	4
Chlorides	mg/l	28.0	30.0	24.0	28.0	27.0	20.0	600
Fluorides	mg/l	0.44	0.41	0.46	0.46	0.47	0.42	1.5
Iron	mg/l	0.21	0.24	0.23	0.19	0.20	0.20	50
Baitarini River Do	wnStream	1				•		•
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for Stream Water Standards



PH	-	7.10	7.27	7.25	7.42	7.46	6.98	6.5-8.5
Fotal Dissolved Solids	mg/l	296.0	316.0	288.0	296.0	298.0	269.0	1500
BOD	mg/l	13.0	80.0	12.5	13.45	13.47	2.6	3
00	mg/l	5.9	6.3	6.2	6.5	6.6	5.3	4
Chlorides	mg/l	24.0	28.0	28.0	32.0	35.0	24.0	600
luorides	mg/l	0.42	0.40	0.46	0.48	0.49	0.43	1.5
ron	mg/l	0.24	0.26	0.22	0.25	0.26	0.22	50
Suna River Upstre	am		1	-1	_L			_l
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for Stream Water Standards
PH	_	6.64	6.50	6.75	6.85	6.87	6.57	6.5-8.5
otal Dissolved	mg/l	198.0	208.0	188.0	196.0	197.0	190.0	1500
BOD	mg/l	5.6	5.8	5.8	6.20	6.25	4.2	3
00	mg/l	5.4	5.6	5.6	5.8	5.7	5.6	4
Chlorides	mg/l	22.0	24.0	26.0	30.0	32.0	18.0	600
luorides	mg/l	0.32	0.35	0.35	0.38	0.39	0.35	1.5
ron	mg/l	0.17	0.14	0.22	0.26	0.27	0.15	50
Suna River Downs	_	1		I				
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for
			1404 23	DCC 23	Jan-24	FED-24	IVIdICII-24	Stream Water Standards
РН	-	6.94	6.88	6.84	6.95	6.97	6.88	Stream Water
Total Dissolved	- mg/l							Stream Water Standards
Total Dissolved Solids		6.94	6.88	6.84	6.95	6.97	6.88	Stream Water Standards 6.5-8.5
Total Dissolved Solids BOD	mg/l	6.94 272.0	6.88 284.0	6.84 280.0	6.95 290.0	6.97 297.0	6.88 258.0	Stream Water Standards 6.5-8.5 1500
Total Dissolved Solids BOD DO	mg/l	6.94 272.0 9.5	6.88 284.0 10.5	6.84 280.0	6.95 290.0 11.5	6.97 297.0 11.6	6.88 258.0 5.0	Stream Water Standards 6.5-8.5 1500
Total Dissolved Golids BOD DO Chlorides	mg/l mg/l mg/l	6.94 272.0 9.5 4.8	6.88 284.0 10.5 4.9	6.84 280.0 10.5 5.1	6.95 290.0 11.5 5.4	6.97 297.0 11.6 5.6	6.88 258.0 5.0 5.6	Stream Water Standards 6.5-8.5 1500
Total Dissolved Solids BOD DO Chlorides Fluorides	mg/l mg/l mg/l	6.94 272.0 9.5 4.8 28.0	6.88 284.0 10.5 4.9 30.0	6.84 280.0 10.5 5.1 30.0	6.95 290.0 11.5 5.4 34.0	6.97 297.0 11.6 5.6 35.0	6.88 258.0 5.0 5.6 20.0	Stream Water Standards 6.5-8.5 1500 3 4 600
Fotal Dissolved Solids BOD DO Chlorides Fluorides ron	mg/l mg/l mg/l mg/l mg/l mg/l	6.94 272.0 9.5 4.8 28.0 0.35	6.88 284.0 10.5 4.9 30.0 0.38	6.84 280.0 10.5 5.1 30.0 0.37	6.95 290.0 11.5 5.4 34.0 0.39	6.97 297.0 11.6 5.6 35.0 0.37	5.0 5.6 20.0 0.38	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5
PH Total Dissolved Solids BOD DO Chlorides Fluorides Iron Cakarpani River U	mg/l mg/l mg/l mg/l mg/l mg/l	6.94 272.0 9.5 4.8 28.0 0.35 0.21	6.88 284.0 10.5 4.9 30.0 0.38 0.24	6.84 280.0 10.5 5.1 30.0 0.37 0.20	6.95 290.0 11.5 5.4 34.0 0.39 0.23	6.97 297.0 11.6 5.6 35.0 0.37 0.22	6.88 258.0 5.0 5.6 20.0 0.38 0.23	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards
Fotal Dissolved Solids BOD DO Chlorides Fluorides ron Kakarpani River U Parameter	mg/l mg/l mg/l mg/l mg/l mg/l pStream	6.94 272.0 9.5 4.8 28.0 0.35 0.21	6.88 284.0 10.5 4.9 30.0 0.38 0.24 Nov-23	6.84 280.0 10.5 5.1 30.0 0.37 0.20 Dec-23	6.95 290.0 11.5 5.4 34.0 0.39 0.23 Jan-24	6.97 297.0 11.6 5.6 35.0 0.37 0.22 Feb-24	6.88 258.0 5.0 5.6 20.0 0.38 0.23 March-24	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards 6.5-8.5
Fotal Dissolved Solids SOD DO Chlorides Fluorides ron Kakarpani River U Parameter PH Fotal Dissolved	mg/l mg/l mg/l mg/l mg/l mg/l mg/l pStream Units	6.94 272.0 9.5 4.8 28.0 0.35 0.21 Oct-23	6.88 284.0 10.5 4.9 30.0 0.38 0.24 Nov-23	6.84 280.0 10.5 5.1 30.0 0.37 0.20 Dec-23	6.95 290.0 11.5 5.4 34.0 0.39 0.23 Jan-24	6.97 297.0 11.6 5.6 35.0 0.37 0.22 Feb-24	6.88 258.0 5.0 5.6 20.0 0.38 0.23 March-24	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards
Fotal Dissolved Golids GOD DO Chlorides Fluorides ron Kakarpani River U Parameter PH Fotal Dissolved Golids	mg/I mg/I mg/I mg/I mg/I pStream Units	6.94 272.0 9.5 4.8 28.0 0.35 0.21 Oct-23	6.88 284.0 10.5 4.9 30.0 0.38 0.24 Nov-23 6.56 188.0 5.8	6.84 280.0 10.5 5.1 30.0 0.37 0.20 Dec-23 6.76 185.0 6.3	6.95 290.0 11.5 5.4 34.0 0.39 0.23 Jan-24	6.97 297.0 11.6 5.6 35.0 0.37 0.22 Feb-24	6.88 258.0 5.0 5.6 20.0 0.38 0.23 March-24 6.49 166.0	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards 6.5-8.5 1500 3
Fotal Dissolved Solids SOD DO Chlorides Fluorides ron Cakarpani River U Parameter PH Fotal Dissolved Solids SOD	mg/I mg/I mg/I mg/I mg/I mg/I pStream Units	6.94 272.0 9.5 4.8 28.0 0.35 0.21 Oct-23	6.88 284.0 10.5 4.9 30.0 0.38 0.24 Nov-23	6.84 280.0 10.5 5.1 30.0 0.37 0.20 Dec-23 6.76 185.0 6.3 5.7	6.95 290.0 11.5 5.4 34.0 0.39 0.23 Jan-24	6.97 297.0 11.6 5.6 35.0 0.37 0.22 Feb-24	6.88 258.0 5.0 5.6 20.0 0.38 0.23 March-24	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards 6.5-8.5 1500
Fotal Dissolved Solids BOD CO Chlorides Fluorides ron Kakarpani River U	mg/I mg/I mg/I mg/I mg/I pStream Units - mg/I mg/I	6.94 272.0 9.5 4.8 28.0 0.35 0.21 Oct-23	6.88 284.0 10.5 4.9 30.0 0.38 0.24 Nov-23 6.56 188.0 5.8	6.84 280.0 10.5 5.1 30.0 0.37 0.20 Dec-23 6.76 185.0 6.3	6.95 290.0 11.5 5.4 34.0 0.39 0.23 Jan-24	6.97 297.0 11.6 5.6 35.0 0.37 0.22 Feb-24	6.88 258.0 5.0 5.6 20.0 0.38 0.23 March-24 6.49 166.0	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards 6.5-8.5 1500 3
Fotal Dissolved Solids SOD DO Chlorides Fluorides ron Kakarpani River U Parameter PH Fotal Dissolved Solids SOD	mg/I mg/I mg/I mg/I mg/I pStream Units - mg/I mg/I	6.94 272.0 9.5 4.8 28.0 0.35 0.21 Oct-23	6.88 284.0 10.5 4.9 30.0 0.38 0.24 Nov-23 6.56 188.0 5.8 5.3	6.84 280.0 10.5 5.1 30.0 0.37 0.20 Dec-23 6.76 185.0 6.3 5.7	6.95 290.0 11.5 5.4 34.0 0.39 0.23 Jan-24 6.88 190.0 6.6 5.9	6.97 297.0 11.6 5.6 35.0 0.37 0.22 Feb-24 6.86 192.0	6.88 258.0 5.0 5.6 20.0 0.38 0.23 March-24 6.49 166.0	Stream Water Standards 6.5-8.5 1500 3 4 600 1.5 50 Limits for Stream Water Standards 6.5-8.5 1500 3 4



Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for Stream Water Standards
PH	-	7.09	7.18	7.21	7.37	7.34	7.08	6.5-8.5
Total Dissolved Solids	mg/l	280.0	296.0	295.0	284.0	286.0	177.0	1500
BOD	mg/l	6.4	6.6	6.6	6.8	6.7	6.0	3
DO	mg/l	6.4	6.7	6.6	6.8	6.9	6.1	4
Chlorides	mg/l	29.0	32.0	27.0	24.0	26.0	26.0	600
Fluorides	mg/l	0.41	0.46	0.44	0.47	0.48	0.35	1.5
Iron	mg/l	0.35	0.33	0.33	0.35	0.36	0.16	50
Jalpa River Upstre		1	1	1	1	l		
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for Stream Water Standards
PH	-	6.85	6.90	6.95	6.87	6.86	6.74	6.5-8.5
Total Dissolved Solids	mg/l	210.0	226.0	225.0	240.0	245.0	194.0	1500
BOD	mg/l	8.5	8.0	9.0	9.50	9.52	2.6	3
DO	mg/l	5.5	5.7	5.7	5.9	5.10	5.2	4
Chlorides	mg/l	24.0	20.0	26.0	28.0	27.0	28.0	600
Fluorides	mg/l	0.36	0.34	0.32	0.36	0.38	0.34	1.5
Iron	mg/l	0.18	0.16	0.19	0.20	0.23	0.15	50
Jalpa River Down	stream				- I	1	-1	1
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Limits for Stream Water Standards
PH	-	6.97	6.90	6.92	6.98	6.96	6.83	6.5-8.5
Total Dissolved Solids	mg/l	228.0	234.0	240.0	248.0	258.0	206.0	1500
BOD	mg/l	13.0	12.0	14.0	16.0	15.0	2.8	3
DO	mg/l	4.7	4.9	4.9	5.10	5.11	5.3	4
Chlorides	mg/l	38.0	40.0	34.0	36.0	37.0	36.0	600
Fluorides	mg/l	0.35	0.32	0.37	0.34	0.37	0.37	1.5
Iron	mg/l	0.24	0.26	0.29	0.26	0.29	0.27	50

7. Surface Water Flow Rate

LOCATION NAME	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24
Baitarani River	0.61	0.78	0.67	0.67	0.68	0.50
Kakarpani River	0.65	0.71	0.75	0.78	0.77	0.61
Sona River	0.74	0.74	0.68	0.69	0.69	0.64
Jalpa River	0.82	0.82	0.75	0.74	0.75	0.72

8. ETP

Parameter	Units	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	March-25	Detection Range
			I	ETP Inlet	1			1
pН	-	6.95	6.70	6.84	6.96	6.87	6.90	2.0 -12
Total Suspended Solid as TSS	mg/l	132.0	144.0	138.0	144.0	145.0	86.6	5 - 5000
Total Dissolved Solids as TDS	mg/l	640.0	672.0	675.0	688.0	679.0	1001.0	10-10000
Biochemical Oxygen Demand as BOD 3days at 27°C	mg/l	40.0	38.0	44.0	48.0	48.0	26.0	5-10000
Chemical Oxygen Demand as COD	mg/l	340.0	356.0	356.0	364.0	367.0	206.0	5-50000
Oil & Grease as O & G	mg/l	6.90	7.15	6.70	7.10	7.12	7.2	5-600
Parameter	Units	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24	Acceptable Limits
				ETP Outle	t	•		
pH	-	7.45	7.32	7.26	7.35	7.37	7.32	6.5-9.0
Total Suspended Solid as TSS	mg/l	26.0	32.0	28.0	32.0	36.0	27.6	100.0
Total Dissolved Solids as TDS	mg/l	756.0	768.0	740.0	756.0	764.0	978.0	-
Biochemical Oxygen Demand as BOD 3days at 27°C	mg/l	19.5	21.0	20.5	22.0	24.0	10.0	30.0
Chemical Oxygen Demand as COD	mg/l	132.0	140.0	138.0	144.0	136.0	72.0	250.0
Oil & Grease as O & G	mg/l	BDL	BDL	BDL	BDL	BDL	5.3	10.0



9. Ground Water Quality

					Nov-	2024				
SI. No.	TESTS	Units	Dugwell Near Bil Siding	Kamalpur Village	Jajang Village	Jurudi Village	Jalahari Village	Tap Water Near Jajang Mine		
1.	рН	-	6.82	7.15	6.98	6.88	675	7.15		
2.	Total Dissolved Solids as TDS	mg/l	272.0	260.0	260.0	248.0	264.0	288.0		
3.	Total Hardness as CaCO3	mg/l	108.0	112.0	80.0	96.0	98.0	120.0		
4.	Chloride as Cl	mg/l	24.0	26.0	24.0	22.0	16.0	28.0		
5.	Fluorides as F	mg/l	0.18	0.19	0.21	0.14	0.12	0.19		
6.	Iron as Fe	mg/l	0.08	0.08	0.09	0.09	0.07	0.09		
			Jan-2025							
SI. No.	TESTS	Units	Dugwell Near Bil Siding	Kamalpur Village	Jajang Village	Jurudi Village	Jalahari Village	Tap Water Near Jajang Mine		
1.	рН	-	6.86	7.08	7.02	6.96	6.88	7.08		
2.	Total Dissolved Solids as TDS	mg/l	242.0	210.0	224.0	218.0	234.0	228.0		
3.	Total Hardness as CaCO3	mg/l	89.0	92.0	82.0	94.0	94.0	115.0		
4.	Chloride as Cl	mg/l	9.12	7.12	7.60	7.56	7.30	7.32		
5.	Fluorides as F	mg/l	22.0	24.0	26.0	24.0	17.4	26.0		
6.	Iron as Fe	mg/l	0.16	0.12	0.24	0.13	0.14	0.18		

10. Drinking Water Quality

Parameter	Units	Oct- 23	Nov- 23	Dec-23	Jan- 24	Feb-24	March-24	Acceptable Limits	Permissible Limits
рН	-	6.85	6.92	6.94	6.98	6.97	6.87	6.5-8.5	No Relaxation
Total		268.0	278.0	280.0	292.0	293.0	237.0		
Dissolved									
Solids as TDS	mg/l							500	2000
Total Hardness		80.0	92.0	84.0	88.0	89.0	72.0		
as CaCO3	mg/l	9.50	8.56	10.65	9.45	9.65	9.8	200	600
Sulfate as SO4	mg/l							200	400
Chloride as Cl	mg/l	24.0	20.0	27.0	24.0	24.0	18.0	250	1000
Fluorides as F	mg/l	0.14	0.16	0.16	0.14	0.16	0.19	1	1.5
Iron as Fe	mg/l	0.09	0.07	0.10	0.09	0.10	0.09	0.3	No Relax
Parameter	Units	Oct- 23	Nov- 23	Dec-23	Jan- 24	Feb-24	March-24	Acceptable Limits	Permissible Limits
	Offics	7.26	7.22	7.49	7.35	7.25	7.03	Lillies	No
рН	-							6.5-8.5	Relaxation
Total		226.0	184.6	248.0	256.0	257.0	194.0		
Dissolved									
Solids as TDS	mg/l							500	2000
Total Hardness		64.0	64.0	72.0	80.0	81.0	52.0		
as CaCO3	mg/l							200	600
Sulfate as SO4	mg/l	8.70	16.4	10.75	11.60	11.63	8.66	200	400
Chloride as Cl	mg/l	18.0	22.0	26.0	24.0	24.7	12.0	250	1000
Fluorides as F	mg/l	0.19	0.22	0.25	0.27	0.28	0.14	1	1.5
Iron as Fe	mg/l	0.17	0.20	0.21	0.23	0.24	0.10	0.3	No Relax
D	<u> </u>	Oct-	Nov-	Dec-23	Jan-	Feb-24	March-24	Acceptable	Permissible
Parameter	Units	23	23		24			Limits	Limits
рН		7.38	7.30	7.35	7.10	7.14	7.12		No
рп	•							6.5-8.5	Relaxation
Total		256.0	264.0	260.0	272.0	273.0	219.0		
Dissolved	,,								
Solids as TDS	mg/l	76.0	80.0	76.0	84.0	85.0	68.0	500	2000
Total Hardness as CaCO3	ma/l	/6.0	50.0	76.0	04.0	05.0	00.0	200	600
Sulfate as SO4	mg/l	8.50	9.56	11.50	10.50	10.52	10.6		
	mg/l	28.0	32.0	28.75	18.0	18.4	18.0	200	400
Chloride as Cl	mg/l	0.15	0.18	0.19	0.15	0.13	0.16	250	1000
Fluorides as F	mg/l							1	1.5
Iron as Fe	mg/l	0.07	0.09	0.10	0.08	0.09	0.09	0.3	No Relax



11. STP

Parameter	Units	Oct-23	Nov- 23	Dec- 23	Jan-24	Feb-24	March-24	Detection Range
				STP Ir	let	1	I	
pН	-	8.25	8.39	8.16	8.25	8.35	6.70	2.0 -12
Total Suspended Solid as TSS	mg/l	132.0	138.0	140.0	148.0	147.0	119.0	5 - 5000
Total Dissolved Solids as TDS	mg/l	790.0	784.0	780.0	796.0	786.0	623.0	10-10000
Biochemical Oxygen Demand as BOD 3days at 27°C	mg/l	48.0	44.0	44.5	46.0	47.0	35.0	5-10000
Chemical Oxygen Demand as COD	mg/l	652.0	648.0	664.0	652.0	657.0	277.0	5-50000
Oil & Grease as O & G	mg/l	8.95	8.72	8.15	8.45	8.48	8.13	5-600
Parameter	Units	Oct-23	Nov- 23	Dec- 23	Jan-24	Feb-24	March-24	Acceptable Limits
				STP Ou	ıtlet			
pН	-	7.56	7.40	7.40	7.56	7.66	7.09	6.5-9.0
Total Suspended Solid as TSS	mg/l	37.5	36.0	34.0	38.0	39.0	34.0	100.0
Total Dissolved Solids as TDS	mg/l	578.0	588.0	564.0	572.0	582.0	563.0	-
Biochemical Oxygen Demand as BOD 3days at 27°C	mg/l	18.0	17.0	16.0	18.5	18.7	18.0	30.0
Chemical Oxygen Demand as COD	mg/l	136.0	128.0	128.0	136.0	138.0	76.0	250.0
Oil & Grease as O & G	mg/l	BDL	BDL	BDL	BDL	BDL	5.13	10.0



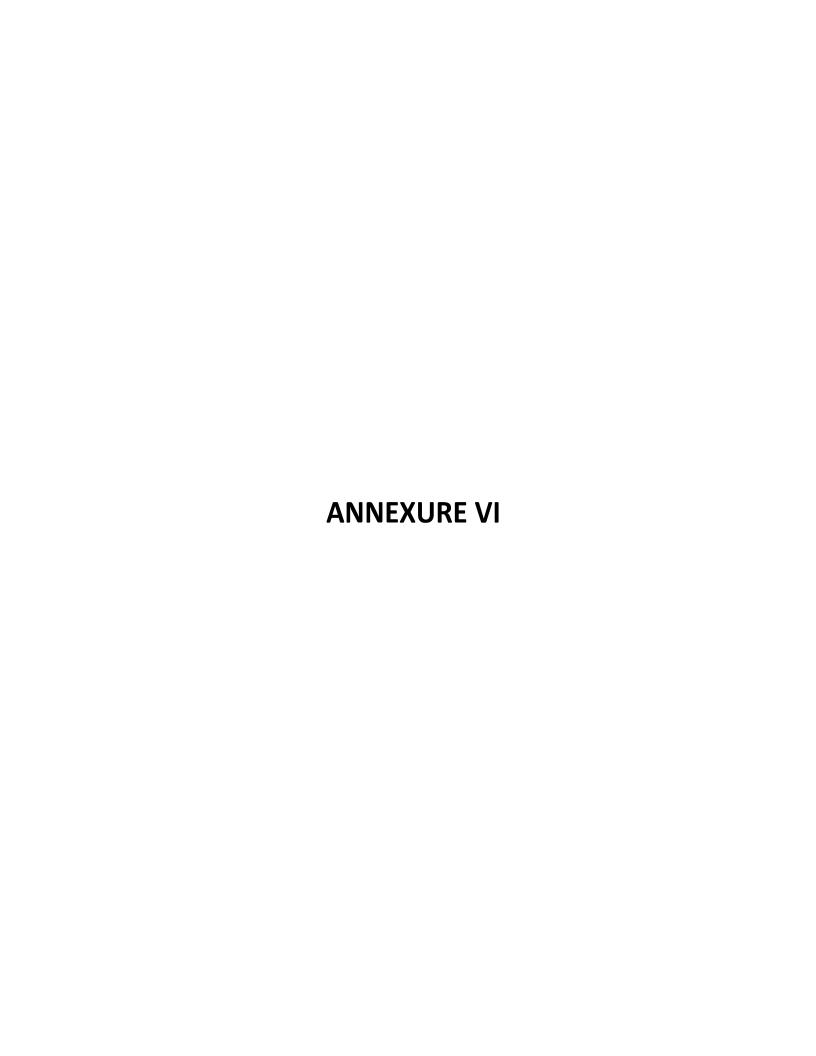
12. Vibration Monitoring

Station no.	Station Name	Instrument location	Season (Summer/Winter/Monsoon/	Peak particle	Air Over pressure	Frequency	Remark
1	Zone-1	Old Mines office(300 m away from the blasting area)	post monsoon post monsoon	1.05 mm/s	115.6 dBL @ 5.5Hz / .012kPa		Within permissible Limit

Verified By

Technical Manager

Authorized By



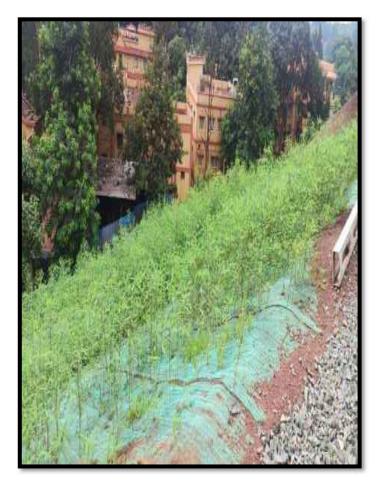


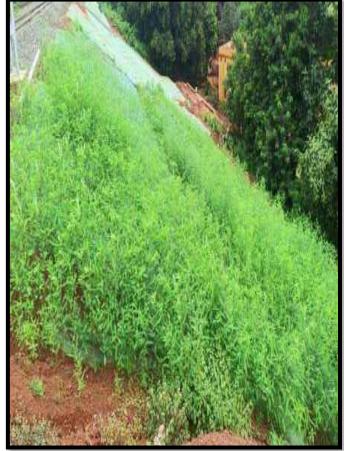






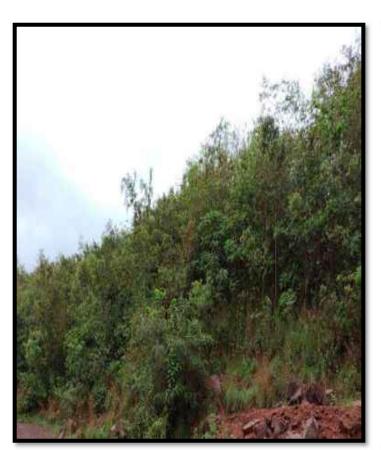








Mango Plantation





Dump Plantation











Drip Irrigation



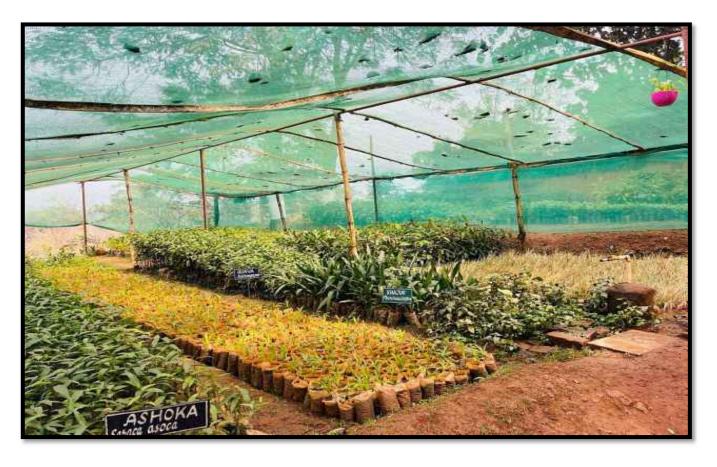


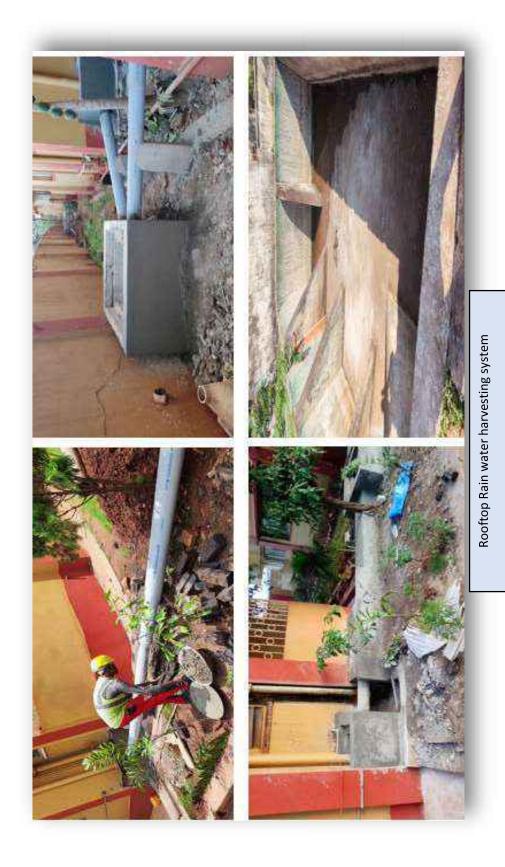


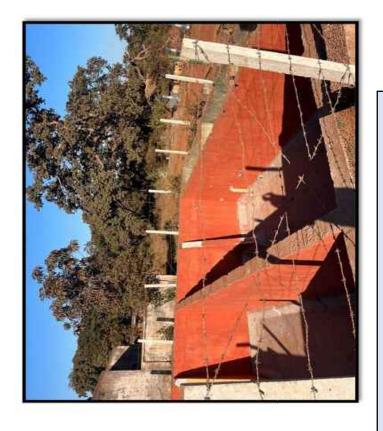


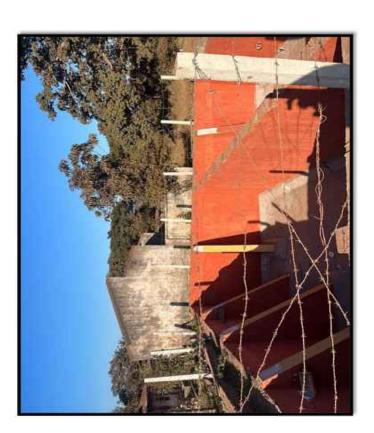










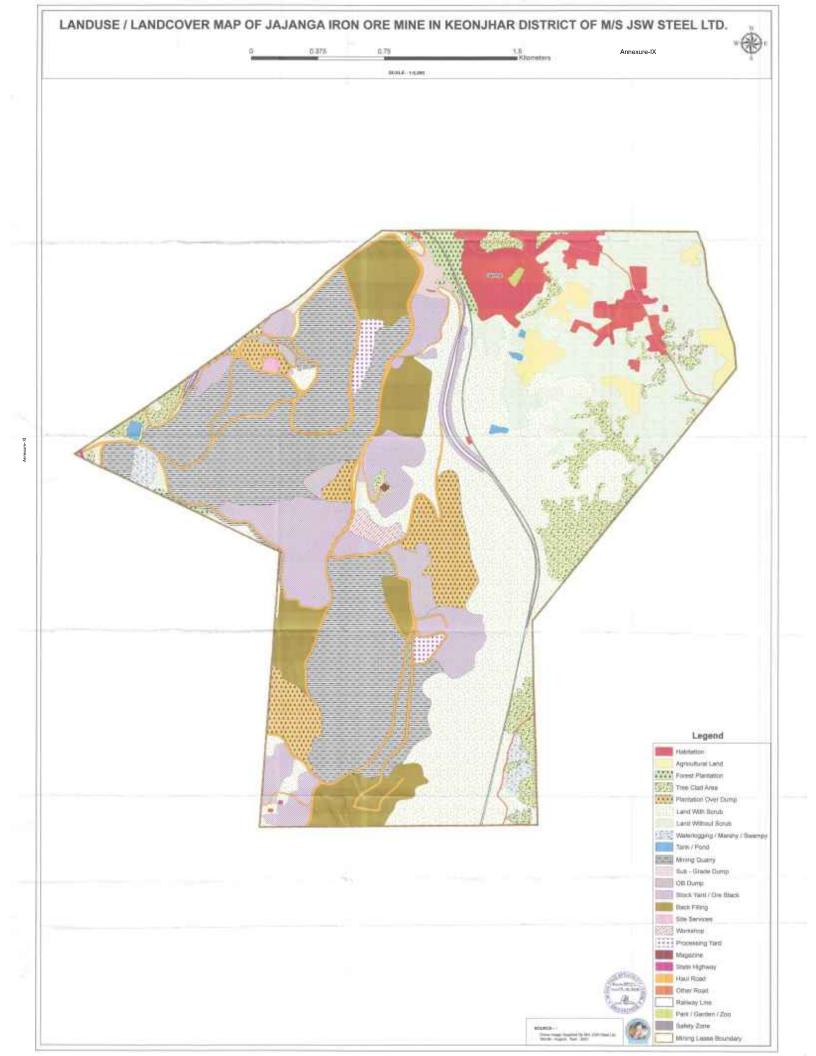


Collection pit of Rooftop Rain water harvesting



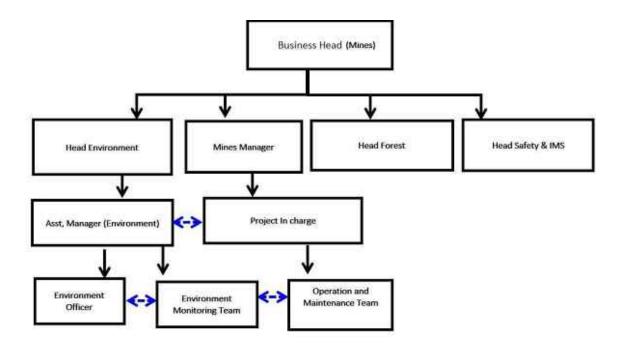


Rain water harvesting pits



FORMATION OF ENVIRONMENTAL MANAGEMENT CELL (EMC)

In order to maintain the environmental quality, regular inspections, audits & monitoring of various environmental components is necessary. M/s. JSW Steel Ltd. has a full-fledged Environmental Management Cell (EMC) for environmental monitoring and control. The EMC team will be responsible for pollution monitoring aspects and implementation of control measures.



Organizational Structure of EMC