Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/JH/MIN/224453/2021
Compliance ID	128802596
Compliance Number(For Tracking)	EC/M/COMPLIANCE/128802596/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	30-11-2025
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	JHARKHAND
RO/SRO Office Address	Integrated Regional Offices, Ranchi
Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, JHARKHAND with Notification to Project Proponent.	

TATA

Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, 2nd Floor,
Headquarter- Jharkhand State Housing Board,
Harmu Chowk, Ranchi, Jharkhand – 834002, Ranchi - 834002
Email: ro.ranchi-mef@gov.in

MD/ENV/ 395 / 112 / 2025
Date: 14.11.2025

Ref: Environmental clearance letter No. J-11015/507/2007-IA. II (M) Dated 22nd December- 2008.

Sub: Half-yearly compliance status report of Environmental Clearance conditions for the period April 2025 – September 2025 in respect of Vijaya II Iron Ore Mine, M/s Tata Steel Limited.

Dear Sir,

Kindly find attached herewith the half-yearly compliance status report in respect of the stipulated Environmental Clearance conditions of Vijaya II Iron Ore Mine, M/s Tata Steel Limited for the period from **April 2024 – September 2025.**

We trust that the measures taken towards environmental safeguards comply with the stipulated environmental conditions. We look forward to your further guidance which will certainly help us in our endeavor to further improve our Environmental Management practices.

Thanking you,

Yours faithfully,
f: M/s Tata Steel Limited

Area Manager (Environment), OMQ

Encl. : As above

Copy to : The Chairman, Central Pollution Control Board, Southern end Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107 (W. B.)
: The Member Secretary, JSPCB, T A Division,(Ground Floor), Dhurwa, Ranchi.
: The Regional Officer, JSPCB, MB/12 New Housing Colkony, Adityapur, Jamshedpur

TATA STEEL LIMITED
Mines Division Noamundi 833 217 India
Tel 91 9262699402
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

Vijay-II Iron Ore Mine, M/s Tata Steel Limited, Barajamda, Tehsil Noamundi, District West Singbhum, Jharkhand.	Environmental Clearance File No.: J-11015/507/2007-IA.II (M). Compliance Period: April 25 to September 25

Sl. No.	Specific Conditions	Compliance Status
i	The project proponent shall obtain Consent to Establish from the Jharkhand State Pollution Control Board and effectively implement all the conditions stipulated therein.	Consent to Establish has been Obtained from Jharkhand State Pollution Control Board, Ranchi, vide letter no – 3676 dated 11th December 2007 and all conditions stipulated therein have been effectively implemented.
ii.	Necessary Forestry clearance under the Forest (Conservation) Act, 1980 for an area of 155.078 ha forest land shall be obtained before starting mining operation in that area. Till such time mining activities shall be restricted to an area of 29.4648 ha for which forestry clearance has been obtained from the ministry on 12.07.2005. Environmental clearance is subject to grant of forestry clearance.	We have obtained forest clearance under the Forest (Conservation) Act, 1980 for an area of 117.0059 Ha, 29.4648 Ha, vide letter nos. F.No.8-88/2007 FC (pt) dated 9th November 2012 and 12(21)51/2004 FCE dated 12th July 2005 respectively. An area of 8.6073Ha.is being maintained as safety zone.
iii.	Environmental clearance is subject to the final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation vs Union of India in writ petition (Civil) No. 460 of 2004, as may be applicable to this project.	Not applicable. There are no National Parks or Wildlife Sanctuaries within the buffer zone of the lease area.
iv.	Environmental clearance is subject to obtaining clearance under the wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	Not applicable. There are no National Parks or Wildlife Sanctuaries within the buffer zone of the lease area.
v.	The mining operations shall be restricted to above ground water table, and it should not intersect ground water table. In case of working below ground table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	Currently the lowest elevation at which mining operation is being carried out is at 670mRL, which is far above the ground water table reported as 470m AMSL. Ultimate pit limit of mining has been planned as 568 AMSL as per approved Mining plan. Mining operations will not intersect the ground water table.
vi.	The project proponent shall ensure that no natural watercourse and / or water resources shall be obstructed due to any mining operations. The first order streams and the seasonal Nalliah's originating from the mining lease areas shall be protected.	There are no natural water courses and first order streams or seasonal nallahs originating from the mining lease. However, to manage surface runoff management measures attached as **Annexure- 1.**
vii.	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be	During the reporting period no topsoil was generated. However, previously generated topsoil is being stored at ear marked location as

	kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	per approved mining plan and has been utilized for plantation within mining lease area.
viii.	The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site only and it should not be kept active for a long period and their phase-wise stabilization shall be carried out. There shall be one external dump in an area of 5.91ha. The maximum height of the dumps shall not exceed 50m having 5 terraces of 10m each and the overall slope of the dump shall be maintained to 28 °. The proponent shall ensure slope stability based on study carried out in this regard. The OB dump should be scientifically Vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. 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 basis.	Total over burden generated has been stacked at ear marked dump area as per approved mining plan. Backfilling is being done with terracing of 10 m height each. To prevent erosion and stabilization the slope of the backfilled area has been covered with Coir mat and grass seed sowed on it. Total 1562 number of saplings have been planted in backfilled area, 1400 number of saplings in safety zone area, 1470 number of saplings have been planted in barren Zone during H1 FY26. Draught hardy grass has also been planted on the dump to prevent erosion and surface run off. Six monthly Compliance reports are submitted to MOEF Ranchi regularly. Photographs of retaining wall and Garland Drain are enclosed as **Annexure- 1,** Coir-mat photographs attached as **Annexure-2,** Plantation photographs attached as **Annexure- 3.**
ix.	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dump(s) to prevent runoff of water and flow of sediments directly into the Karo River, the Koina River, Seasonal nallahs and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after the monsoon and maintained properly. Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dump to prevent run off of water and flow of sediments directly into the Karo River, the Koina River, seasonal nallahs and other water bodies and sump capacity should	Catch drains and siltation ponds of appropriate size have been constructed around the mine working, mineral and OB dump(s) to manage runoff of water and flow of sediments directly into the Karo River, the Koina River, Seasonal nallahs and other water bodies. Following protection measures have taken to manage run off water: 1. Check dam has been developed out of lease area at foot hill near Baraiburu Village. 2. Two Settling pits have been developed, one at the toe of OB dump and the other below the mineral stack. 3. Settling ponds and check dam are regularly di-silted before monsoon season.

	be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.	4. One settling pond and one Settling cum percolation pond have been developed near main gate. Photographs of Settling ponds attached as **Annexure- 4.**
x.	Dimension of the retaining wall at the toe of the over burden dump and the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	At the toe of OB dump and material stock area, retaining walls have been constructed along with garland drain to check run-off and siltation has been as per rainfall data. Retaining wall and Garland drain photographs attached as **Annexure-1.**
xi.	Plantation shall be raised in an area of 27.8048 ha including a 7.5m wide green belt in the safety zone around the mining lease, over burden dump, backfilled and reclaimed area, mine benches, around crushing and screening plant, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	During this year Total 4432 saplings have been plated in lease area including 1400 saplings in safety zone. Native plant species such as Karange, Shisham, Kusum, Gamhar, Kaju and Shimarua have been planted. Photographs enclosed in **Annexure-3.**
xii.	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 RSPM 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.	8 number of water tankers of 8KL which are equipped with sprinkling system are engaged for water spraying on Mine haul road and the transportation road. It is being carried out at regular intervals to suppress dust. We have installed dry fog system at crushing and screening plant. The Ambient Air Quality monitoring is carried out by NABL accredited lab, M/S Anacon laboratories Pvt. Ltd. A CAAQMS station has been installed at Mines which is directly connected to JSPCB server. Six-monthly AAQ monitoring report is enclosed as **Annexure-5.**
xiii.	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained.	Flow rate of the springs and perennial nallahs flowing around the mine lease is being regularly monitored and records are being maintained, attached as **Annexure-6.**

xiv.	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Settling cum percolation pond and garland drain have been developed. Rainwater is channelized, to drain into the mine sump at the bottom part of the mine from where it recharges ground water resource.
xv.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year, pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to 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 ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	Monitoring of groundwater level and quality is being carried out from network of existing wells around project area. A Piezometer has been installed at Hati Chawk which is located outside the lease area. Ground water level and Ground water quality monitoring report reports are enclosed as **Annexure- 7 and 8** respectively.
xvi.	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.	We have obtained permission 0.055 MCM surface water drawl per annum from Water Resources Department, Ranchi, Jharkhand vide letter no. 2/PMC/Water supply -87/2007/477 dated 02.04.2008. No ground water drawl is envisaged for the Mine. As mentioned earlier the Mining will not intersect the ground water table till life of the mine.
xvii.	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Settling pond and garland drain have been developed. Rainwater is channelized to drain into the mine sump at the bottom part of the mine from where it recharges ground water resource.
xviii.	Appropriate mitigative measures shall be taken to prevent pollution of the Karo River, the Koina River in consultation with the State Pollution Control Board.	Mining is being done in western limb of the lease hold area from where Karo river is 4.5km and Koina River 5.7km. However following measures have been taken to prevent surface run off: • Adequate length retaining wall below the OB dump and mineral stack has been

		constructed as mentioned above in compliance to condition no. x. • All Garland drains in the lease area have been desilted before onset of monsoon season. • OB dump/back filled area covered with Coir mat. A Catchment Area Treatment Plan has been approved by Principal Chief Conservator of Forests (HOFF), Jharkhand, Ranchi. As per this approved Plan we have already deposited 196.377 Lakhs in CAMPA account for Bio-Conservation, Eco- Restoration, and Infrastructure. Surface water quality report enclosed as **annexure-09**.
xix.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operation 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.	Vehicles, only with valid PUC certificates are allowed in mines and records are maintained. All trucks carrying iron ore has been properly covered with tarpaulin and not overloaded.
xx.	No blasting shall be carried out after sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting is done only in daytime. Presently, NONEL Technology is being used for blasting to control ground vibration and minimize the fly rocks.
xxi.	Drill shall either be operated with dust extractors or equipped with water injection system.	Wet drilling is practiced, and Drill Machine is equipped with water injection system.
xxii.	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Dry fog system has been installed in crushers and operated at all transfer points and discharge points of conveyors in the C and S plant, also mist canon is placed at crushing and screening plant and regular water sprinkling done with mobile sprinkler. Photographs attached as **Annexure-10.**

xxiii.	Consent to operate shall be obtained from the State Pollution Control Board prior to start of enhanced production from the mines.	We have obtained consent to operate for 2.5 MTPA vide letter no. JSPCB/HO/RNC/CTO-21847276/2025/1711 dated 24/06/2025 and its **validity is up to 30/06/2027**. CTO of Vijay II Iron Ore Mine enclosed as **Annexure-11.**
xxiv.	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during mining operation	Not applicable as there is not any colony in the mine. People working at Vijay II Iron ore mine are residing at Noamundi Township where STP has been provided.
xxv.	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.	84 Pre-placement medical examination and 113 periodical medical examination of the workers are done as per the standards of Mines Rules 1955 and latest prescriptions by DGMS, and records maintained.
xxvi	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, leopard, wolf etc. spotted in the study area. Action plan for conservation of flora and fauna prepared shall be implemented in consolation with the State Forest and Wildlife Department. All the safeguard measures bought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented. 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. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	<u>Effective Protective Measures undertaken at Vijay-II Iron Ore Mine</u> A Site-specific wildlife and Biodiversity conservation plan was approved by PCCF with 10 years financial forecast for implementation. We have already paid 598.55Lakhs to forest department (CAMPA) for different activities of approved Site-Specific Wildlife Conservation and biodiversity Plan which is to be executed by Forest Department. We also paid 16.90 lakhs as per demand note of forest department during April 25 to September 25 and required equipment to comply the activities of the approved SSWLCP plan. Different activities are being carried out in protection flora and fauna - 1) Mining pit has been fenced. 2) Scientific blasting, using Nonel technology has been adopted to reduce the noise and vibration. The blasting operation is carried out during the daytime only. 3) Ore dispatches from mines are only in daylight hours with tarpaulin cover Truck. 4) Local labor and one Camper for QRT for Saranda Forest have been provided to the local forest department (Gua Range Office) to control forest fire in Ghatkuri Reserve Forest.

		5) Water pits have been developed in compartment 26 and 29 for fresh water for wild animals. 6) Three Watch towers have been constructed in Ghatkuri reserve forest. 7) A Modern check Naka which is operated with Solar power developed at Hati Chawk of Saranda reserve forest. 8) A wildlife rescue Van (TATA 407 Gold) which was customized for Cage, Dart Gun, other equipment handed over to forest department. We have also paid Rs. 33.79 lakh as a contribution amount for study of comprehensive wildlife management plan. A Fire Management Plan also has been approved by DFO Saranda for protection of Flora and fauna in Saranda Reserve Forest and according to this plan we have provided: 1. Camper with Local labour. 2. 14 Fire blowers for fire extinguishing in forest. 3. Fire protection shoes, Jackets, Bush Cutter, 7 set Mobile phone for better communication.
xxvii.	The entire mining lease area shall be fenced by erecting solar powered electric fencing all around it. The fencing so erected shall be maintained properly and the cost towards erection and maintenance of the solar powered electric fencing shall be borne by the project proponent out of the project cost.	As per Forest letter. F.No.-125/2014- FC Government of India, MoEF and CC dated 4th July 2014, the Mining pit is only fenced as entire lease hold area within reserve forest.
xxviii.	No transportation of ore outside the mine lease area shall be carried out after sunset.	Complied. Ore dispatches from mines is done only in daylight hours.
xxix.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare,	All the labour working in mine are come from nearby area, so there is no need for colony, and mine is already active.

	creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
xxx.	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 will be prepared and submitted for approval 2 years in advance as per 24(i) of MCDR Rules 2017.
	General conditions	
i.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	There is no change in mining technology and scope of work.
ii.	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	There is no change in the calendar plan including excavation, Quantum of Iron ore, waste /OB.
iii.	Four ambient air quality - monitoring stations should be established in the core zone as well as in buffer zone for RSPM, SPM, SO2 and NOx monitoring. Location of 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.	Four AAQ monitoring stations in the Core zone as well as buffer zone for PM10, PM2.5, SO2 and NOx monitoring have been established. A NABL accredited M/S Anacon environmental engineering lab has been engaged for AAQ monitoring in core zone as well as in buffer zone of lease hold area. A continuous Ambient Air Quality Monitoring system has been installed in lease hold area which has been directly connected to JSPCB server.
iv.	Data on ambient air quality (RSPM, SPM, SO_2 &NOx) 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.	We are regularly submitting data of ambient air quality (PM10, PM2.5, SO2 and NOx) to the Ministry including its regional office located at Ranchi and to JSPCB. Monitoring Report attached as **Annexure-5.**
v.	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Water is sprinkled along the Mine haul road, loading, and unloading point and transfer points at regular interval with the help of adequate no. of water tankers which are equipped with sprinkling system to suppress dust. To control dust emission from sources various measures have been taken such as - a) Wet drilling is being done.

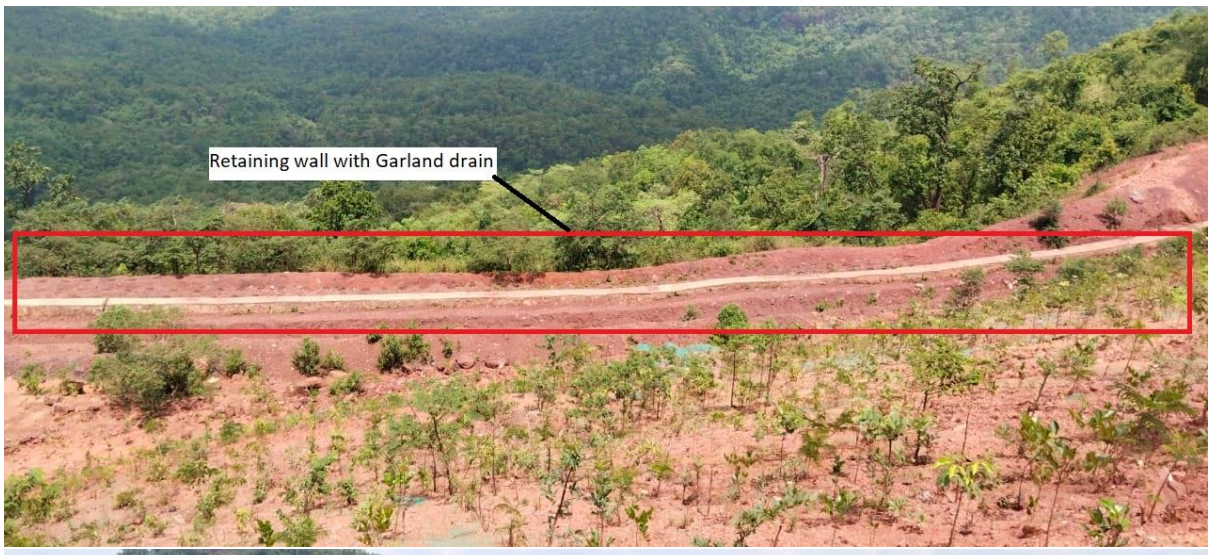
		b) Blasting is done by using Nonel technology to reduce dust generation and vibration (for control blasting). c) Dry fog system has been installed at transfer points and discharge points, also mist canon installed in C and S plants. Photographs attached as **Annexure- 10** and Fugitive dust monitoring report attached as **Annexure-12.**
vi.	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.	Following measures have been taken to keep noise level below 85 dBA. a. Soundproof cabins have been provided for workers deployed on heavy machines such as dozer, dumper, and shovels etc. b. Earplugs/muffs have been provided to the workmen. c. Necessary steps are taken to reduce exposure time of workers to high noise through rotation of duties. d. Maintenance of equipment is being done regularly. e. DG sets are within acoustic enclosure. Noise level monitoring report enclosed as **Annexure -13**.
vii.	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	There is no use of water in process, hence no generation of industrial wastewater.
viii.	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. 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.	Workers are engaged in mining work after providing adequate training and information on safety and health aspect and with protective respiratory devices (Ear Plug, Nose mask, gloves, Helmet, Goggles, safety shoes etc). IME & PME are being done periodically. Total 84 IME and 113 PME of the workers are done as per the standards.

ix.	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.	A separate environmental management cell with suitable qualified personnel is in place. Details of environmental management cell attached as **Annexure-14.**
x.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.	Separate fund is kept complying forest and environment clearance conditions. The head wise expenditure incurred by us in environmental protection measures from 1st April 25 to 31st September 25 is enclosed as **Annexure- 15.**
xi.	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.	Complied.
xii.	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	The requisite data/information/monitoring reports are provided, and co-operation is extended to the regional office of Ministry.
xiii.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Pollution Control Board and State Pollution Control Board.	Six monthly reports are being submitted on regular basis to MoEF and CC, Regional office Ranchi and SPCB.
xiv.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Pollution Control Board and State Pollution Control Board.	Complied.
xv.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from	Complied.

	whom suggestion / representation has been received while processing the proposal.	
xvi.	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collectors office / Tehsildar's Office with 30 days.	NA.
xvii.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Bhubaneswar.	Complied. Information regarding grant of EC was advertised in following newspapers- 1. Prabhat khabar (Hindi) dated 30.12.2008. 2. The Telegraph (English) dated 29.12.2008. Same has been informed to regional office of Ministry vide our letter dated 05.01.2009.

Annexure- 1

Retaining Wall and Garland drain



Annexure- 2

Coir-mat laying on OB dump

Annexure 3

Plantation Photographs

Annexure- 4

Settling Ponds

ANNEXURE-V

Summarised Ambient Air Quality Monitoring Report								
Vijay-ll Iron Ore Mine of M/s Tata Steel Limited								
Period: April 2025 to September 2025								
Mine location	Sampling location	Month	Range	Results in µg/m3				
				PM10	PM2.5	SO2	NOx	CO
Vijay ll Iron Ore Mine	Near main gate	Apr 25	Avg.	62.3	23.4	12.7	23.4	BLQ (LOQ-0.5)
		May 25	Avg.	64.9	24.0	13.8	23.7	BLQ (LOQ-0.5)
		Jun 25	Avg.	59.4	22.7	7.7	18.6	BLQ (LOQ-0.5)
		Jul 25	Avg.	63.7	23.5	11.9	20.1	BLQ (LOQ-0.5)
		Aug 25	Avg.	53.1	19.7	9.7	17.6	BLQ (LOQ-0.5)
		Sep 25	Avg.	58.2	21.4	10.5	18.4	BLQ (LOQ-0.5)
	Quarry-1 (Near weigh bridge)	Apr 25	Avg.	63.4	23.9	13.6	24.2	BLQ (LOQ-0.5)
		May 25	Avg.	64.2	24.3	14.1	23.8	BLQ (LOQ-0.5)
		Jun 25	Avg.	58.2	24.6	6.5	17.5	BLQ (LOQ-0.5)
		Jul 25	Avg.	63.4	24.6	12.5	19.9	BLQ (LOQ-0.5)
		Aug 25	Avg.	58.3	24.9	11.6	18.3	BLQ (LOQ-0.5)
		Sep 25	Avg.	60.2	23.5	10.8	15.9	BLQ (LOQ-0.5)
	Near ISS parking	Apr 25	Avg.	57.3	21.3	11.9	21.5	BLQ (LOQ-0.5)
		May 25	Avg.	60.3	23.1	13.3	22.2	BLQ (LOQ-0.5)
		Jun 25	Avg.	56.4	23.4	7.7	17.8	BLQ (LOQ-0.5)
		Jul 25	Avg.	60.2	24.5	13.7	20.3	BLQ (LOQ-0.5)
		Aug 25	Avg.	61.7	23.8	14.6	23.8	BLQ (LOQ-0.5)
		Sep 25	Avg.	60.5	20.5	15.2	22.4	BLQ (LOQ-0.5)
	Near BS mining office	Apr 25	Avg.	61.8	22.4	13.4	22.6	BLQ (LOQ-0.5)
		May 25	Avg.	61.3	22.3	12.9	22.6	BLQ (LOQ-0.5)
		Jun 25	Avg.	57.7	24.8	7.7	15.9	BLQ (LOQ-0.5)
		Jul 25	Avg.	64.3	25.6	13.9	21.3	BLQ (LOQ-0.5)
		Aug 25	Avg.	58.3	21.6	11.2	23.9	BLQ (LOQ-0.5)
		Sep 25	Avg.	55.2	20.4	11.2	20.8	BLQ (LOQ-0.5)

Summarised Ambient Air Quality Monitoring Report of Buffer Zone								
Vijay ll Iron Ore Mine of M/s Tata Steel Limited								
Period: April 2025 to September 2025								
Mine location	**Sampling location**	**Month**	**Range**	**Results in µg/m3**				
				PM10	**PM2.5**	**SO2**	**NOx**	**CO**
Vijay ll Iron Ore Mine	Baihatu Village (Near school)	Apr 25	Avg.	54.7	20.8	9.8	19.6	BLQ (LOQ-0.5)
		May 25	Avg.	54.5	20.4	7.3	18.0	BLQ (LOQ-0.5)
		Jun 25	Avg.	52.6	20.4	7.2	17.5	BLQ (LOQ-0.5)
		Jul 25	Avg.	53.5	20.9	11.4	19.5	BLQ (LOQ-0.5)
		Aug 25	Avg.	51.3	21.6	11.3	24.7	BLQ (LOQ-0.5)
		Sep 25	Avg.	51.6	21.8	11.9	22.5	BLQ (LOQ-0.5)
	Baraiburu Village (Near temple	Apr 25	Avg.	55.1	21.2	12.1	20.9	BLQ (LOQ-0.5)
		May 25	Avg.	55.8	21.1	12.1	21.7	BLQ (LOQ-0.5)
		Jun 25	Avg.	54.6	20.8	11.2	20.5	BLQ (LOQ-0.5)
		Jul 25	Avg.	52.7	20.4	11.1	19.5	BLQ (LOQ-0.5)
		Aug 25	Avg.	42.8	15.7	5.3	15.1	BLQ (LOQ-0.5)
		Sep 25	Avg.	50.3	18.4	6.8	14.2	BLQ (LOQ-0.5)
	Gua Village	Apr 25	Avg.	59.1	22.2	12.3	22.0	BLQ (LOQ-0.5)
		May 25	Avg.	60.0	23.1	13.9	20.9	BLQ (LOQ-0.5)
		Jun 25	Avg.	60.5	22.4	12.8	21.5	BLQ (LOQ-0.5)
		Jul 25	Avg.	52.0	24.5	7.8	17.3	BLQ (LOQ-0.5)
		Aug 25	Avg.	48.2	17.1	9.6	21.8	BLQ (LOQ-0.5)
		Sep 25	Avg.	50.2	17.8	9.8	22.4	BLQ (LOQ-0.5)
	Bokna Village	Apr 25	Avg.	62.2	23.3	12.5	22.7	BLQ (LOQ-0.5)
		May 25	Avg.	60.8	22.2	11.6	22.7	BLQ (LOQ-0.5)
		Jun 25	Avg.	60.2	22.5	10.4	22.1	BLQ (LOQ-0.5)
		Jul 25	Avg.	52.0	20.2	11.2	17.8	BLQ (LOQ-0.5)
		Aug 25	Avg.	57.3	24.7	13.1	26.4	BLQ (LOQ-0.5)
		Sep 25	Avg.	58.4	24.9	14.8	22.3	BLQ (LOQ-0.5)

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221.

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: **Karo River Upstream (Near Hati Chowk)**
Type of measurement	: Open Channel Flow
Date of measurement	: 21 May,2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	**Value**	**Value**	**Value**
Width (meter)	13.6	15.1	11.9
Depth (meter)	0.49	0.44	0.58
Velocity (m/s)	0.22	0.18	0.28
Velocity (m/hrs.)	**792**	**648**	**1008**

Calculation of Flow

11:30 A.M.	Area (m^2)	: Depth (m) x Width (m)	6.664
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5277.88**
12:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.644
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4305.31**
1:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.902
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6957.21**

Remarks: - **Average Discharge from Karo River Upstream Near Hati Chowk is 5513.47 m^3/hrs**

Chemist
Atul Sapate

----End of Report----

Authorized Signatory

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221.

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: **Karo River Downstream (Near Hanuman Mandir)**
Type of measurement	: Open Channel Flow
Date of measurement	: 21 May,2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	**Value**	**Value**	**Value**
Width (meter)	13.5	14.2	12.9
Depth (meter)	0.48	0.42	0.57
Velocity (m/s)	0.26	0.20	0.28
Velocity (m/hrs.)	**936**	**720**	**1008**

Calculation of Flow

11:50 A.M.	Area (m^2)	: Depth (m) x Width (m)	6.48
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6065.28**
1:30 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.964
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4294.08**
2:10 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.353
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**7411.82**

Remarks: - Average Discharge from Karo River Downstream near Hanuman Mandir is 5323.72 m^3/hrs.

Chemist
Atul Sapate

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221.

Protocol for Measurement of Flow

Name of Unit : Vijay-II Iron Ore Mines

Location Name & Coordinates : **Koina River Upstream**

Type of measurement : Open Channel Flow

Date of measurement : 21 May,2025

Formula used : Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	**Value**	**Value**	**Value**
Width (meter)	15.6	16.8	17.2
Depth (meter)	0.30	0.26	0.30
Velocity (m/s)	0.22	0.19	0.26
Velocity (m/hrs.)	**792**	**684**	**936**

Calculation of Flow

2:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.64
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**3706.56**
3:20P.M.	Area (m^2)	: Depth (m) x Width (m)	4.368
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**2987.71**
4:15 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.16
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4829.76**

Remarks: - **Average Discharge from Koina River Upstream is 3841.344 m^3/hrs.**

Chemist
Atul Sapate

Authorized Signatory

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221.

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: **Koina River Downstream**
Type of measurement	: Open Channel Flow
Date of measurement	: 21 May,2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	**Value**	**Value**	**Value**
Width (meter)	19.2	21.6	20.8
Depth (meter)	0.38	0.31	0.36
Velocity (m/s)	0.30	0.29	0.25
Velocity (m/hrs.)	**1080**	**1044**	**900**

Calculation of Flow

3:10P.M.	Area (m^2)	: Depth (m) x Width (m)	7.296
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**7879.68**
3:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.696
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6990.62**
4:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.488
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6739.2**

Remarks: - **Average Discharge from Koina River Downstream is 7203.16 m^3/hrs.**

Chemist
Atul Sapate

Authorized Signatory

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: **Karo River Upstream (Near Hati Chowk)**
Type of measurement	: Open Channel Flow
Date of measurement	: 21st July 2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	Value	Value	Value
Width (meter)	14.1	16.3	12.6
Depth (meter)	1.3	1.2	1.6
Velocity (m/s)	0.42	0.38	0.36
Velocity (m/hrs.)	**1512**	**1368**	**1296**

Calculation of Flow

11:30 A.M.	Area (m^2)	: Depth (m) x Width (m)	18.33
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**27714.96**
12:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	19.56
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**26758.08**
1:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	20.16
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**26127.36**

Remarks: - Average Discharge from Karo River Upstream Near Hati Chowk is **26866.8** m^3/hrs

Chemist

Atul Sapate
Sr. Field Chemist

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----End of Report----

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221.

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: **Koina River Upstream**
Type of measurement	: Open Channel Flow
Date of measurement	: 21st July 2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	Value	Value	Value
Width (meter)	16.2	17.1	18.3
Depth (meter)	0.98	1.02	1.04
Velocity (m/s)	0.40	0.44	0.41
Velocity (m/hrs.)	**1440**	**1584**	**1476**

Calculation of Flow

2:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	15.876
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**22861.44**
3:20P.M.	Area (m^2)	: Depth (m) x Width (m)	17.442
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**27628.13**
4:15 P.M.	Area (m^2)	: Depth (m) x Width (m)	19.032
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**28091.23**

Remarks: - Average Discharge from Koina River Upstream is 26193.6 m^3/hrs.

Chemist

Atul Sapate
Sr. Field Chemist

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----*End of Report*----

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Test Report

Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: Koina River Downstream
Type of measurement	: Open Channel Flow
Date of measurement	: 21st July 2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	Value	Value	Value
Width (meter)	20.4	18.7	22.6
Depth (meter)	1.2	0.90	0.95
Velocity (m/s)	0.38	0.41	0.45
Velocity (m/hrs.)	**1368**	**1476**	**1620**

Calculation of Flow

3:10P.M.	Area (m^2)	: Depth (m) x Width (m)	24.28
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**33488.64**
3:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	16.83
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**24841.08**
4:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	21.47
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**34781.4**

Remarks: - Average Discharge from Koina River Downstream is 31037.04 m^3/hrs.

Chemist
Atul Sapate
Sr. Field Chemist

Authorized Signatory
Chinmay Gaiway
Deputy Quality Manager

----End of Report----

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Test Report

M/s TATA Steel Limited
Badajamda-833 221

Protocol for Measurement of Flow

Name of Unit	: Vijay-II Iron Ore Mines
Location Name & Coordinates	: **Baraiburu Nallah**
Type of measurement	: Open Channel Flow
Date of measurement	: 21st July 2025
Formula used	: Flow Rate, Q (m^3/hrs.) = Velocity, v (m/hrs.) x Area, A (m^2)

Parameters measured

Parameter	Value	Value	Value
Width (meter)	12.6	11.4	9.8
Depth (meter)	1.3	1.09	1.05
Velocity (m/s)	0.15	0.21	0.22
Velocity (m/hrs.)	**540**	**756**	**792**

Calculation of Flow

4:10P.M.	Area (m^2)	: Depth (m) x Width (m)	16.38
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**8845.2**
4:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	12.426
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**9394.05**
5:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	10.29
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**8149.68**

Remarks: - Average Discharge from Koina River Downstream is 87796.31 m^3/hrs.

Chemist
Atul Sapate
Sr. Field Chemist

Authorized Signatory
Chinmay Ganvay
Deputy Quality Manager

----End of Report----

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Test Report

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Vijay II Iron Ore Mines
M/s TATA Steel Limited
Badajamda-833 221.

Ground Water Table Measurement
May-2025

Sl. No.	Date of Measurement	Location	Water level Below Ground Level (In meter)
1	16/05/2025	Well Near Baihatu Village	**3.5**
2	16/05/2025	Well Near Baraiburu Village	**3.9**
3	16/05/2025	Well Near Gua Village	**2.7**
4	16/05/2025	Well Near Bokna Village	**3.2**

Chemist:

----End of Report----

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005104F

Test Report No. : ALPL/04082025/36-1 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-1 19/05/2025 4700126596/962-30. 05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	187.36
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	BLQ (LOQ-1)
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	28.47
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	41.93
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	BLQ (LOQ-0.1)
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	11.53
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	BLQ (LOQ-2)
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.97
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	8.16
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	371
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	152

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garwaj
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005104F
Test Report No. : ALPL/04082025/36-1 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-1 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.09
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
IV	**Discipline : Chemical**	**Group : Residues and contaminants in water**				
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwa
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005104F
Test Report No. : ALPL/04082025/36-1 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-1 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

□ **Please refer last Page for Note and Remarks.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwal
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005104F
Test Report No. : ALPL/04082025/36-1 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-1 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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TC-12998

Test Report

ULR No.-TC129982500005105F
Test Report No. : ALPL/04082025/36-2 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-2 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baraiburu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	161.38
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	BLQ (LOQ-1))
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	13.97
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	21.46
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	BLQ (LOQ-0.1)
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	8.26
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	BLQ (LOQ-2)
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.21
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	6.97
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	294
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	BLQ (LOQ-0.1)
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	86

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garwaya
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005105F
Test Report No. : ALPL/04082025/36-2 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/19052025/W-1/4-2 **Inward Date** 19/05/2025 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	16/05/2025	2.30 pm to 4.00 pm	Baraiburu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.26
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
IV	**Discipline : Chemical**	**Group : Residues in water**				
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwar
Deputy Quality Manager

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Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baraiburu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By
Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005105F
Test Report No. : ALPL/04082025/36-2 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-2 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** **Analysis End** **Report Issue Date**	20/05/2025 27/05/2025 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml	
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baraiburu Village	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

End Of Report

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TC-12998

Test Report

ULR No.-TC129982500005106F
Test Report No. : ALPL/04082025/36-3 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-3 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	167.39
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	1
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	27.81
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	51.64
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	0.16
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	12.57
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	7.93
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.68
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	7.21
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	462
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	180

□ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005106F
Test Report No. : ALPL/04082025/36-3 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/19052025/W-1/4-3		**Analysis Start** 20/05/2025
	Inward Date	19/05/2025		**Analysis End** 27/05/2025
	Work Order No.	4700126596/962-30.05.2024		**Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.06
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
IV	**Discipline : Chemical**	**Group : Residues in water**				
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005106F

Test Report No. : ALPL/04082025/36-3 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-3 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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Test Report

ULR No.-TC129982500005106F
Test Report No. : ALPL/04082025/36-3 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-3 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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TC-12998

Test Report

ULR No.-TC129982500005107F
Test Report No. : ALPL/04082025/36-4 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/19052025/W-1/4-4 **Inward Date** 19/05/2025 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	16/05/2025	2.30 pm to 4.00 pm	Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	187.36
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	1
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	27.46
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	48.39
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	0.21
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	9.76
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	7.28
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.36
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	14.53
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	473
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	160

☐ **Please refer last Page for Note and Remarks.**

Verified By
Snehal Raut
Technical Manager

Authorized Signatories
Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005107F

Test Report No. : ALPL/04082025/36-4 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-4 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.11
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
IV	**Discipline : Chemical**	**Group : Residues in water**				
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

□ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Ganway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500005107F

Test Report No. : ALPL/04082025/36-4 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-4 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005107F
Test Report No. : ALPL/04082025/36-4 dated 04/08/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/19052025/W-1/4-4 19/05/2025 4700126596/962-30.05.2024		**Analysis Start** 20/05/2025 **Analysis End** 27/05/2025 **Report Issue Date** 04/08/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 16/05/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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TC-12998

Test Report

ULR No.-TC129982500005484F

Test Report No. : ALPL/03092025/45-1 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25082025/W-1/4-1 **Inward Date** 25/08/2025 **Work Order No.** 4700126596/962-30. 05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	187.36
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	BLQ (LOQ-1)
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	28.47
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	41.93
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	BLQ (LOQ-0.1)
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	11.53
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	BLQ (LOQ-2)
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.97
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	8.16
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	371
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	152

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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Test Report

ULR No.-TC129982500005484F
Test Report No. : ALPL/03092025/45-1 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25082025/W-1/4-1 **Inward Date** 25/08/2025 **Work Order No.** 4700126596/962-30. 05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.09
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
IV	**Discipline : Chemical**	**Group : Residues and contaminants in water**				
33	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)
34	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005484F
Test Report No. : ALPL/03092025/45-1 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25082025/W-1/4-1 **Inward Date** 25/08/2025 **Work Order No.** 4700126596/962-30. 05.2024		**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Gua Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwar
Deputy Quality Manager

-----End of Report-----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500005485F
Test Report No. : ALPL/03092025/45-2 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/W-1/4-2 25/08/2025 4700126596/962-30. 05.2024		**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baraiburu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	161.38
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	BLQ (LOQ-1))
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	13.97
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	21.46
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	BLQ (LOQ-0.1)
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	8.26
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	BLQ (LOQ-2)
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.21
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	6.97
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	294
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	BLQ (LOQ-0.1)
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	86

☐ **Please refer last Page for Note and Remarks.**

Verified By
Snehal Raut
Technical Manager

Authorized Signatories
Pranita Manchewar
Dy. Technical Manager

Chinmay Garwar
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005485F
Test Report No. : ALPL/03092025/45-2 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/W-1/4-2 25/08/2025 4700126596/962-30. 05.2024		**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Baraiburu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.26
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
IV	**Discipline : Chemical**	**Group : Residues in water**				
33	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)
34	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Ganvay
Deputy Quality Manager

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Test Report

ULR No.-TC129982500005485F
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	Inward Date	25/08/2025	**Analysis End** 02/09/2025
	Work Order No.	4700126596/962-30. 05.2024	**Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Baraiburu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Kashish Chanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005485F
Test Report No. : ALPL/03092025/45-2 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/W-1/4-2 25/08/2025 4700126596/962-30. 05.2024		**Analysis Start** **Analysis End** **Report Issue Date**	26/08/2025 02/09/2025 03/09/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml	
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baraiburu Village	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwa
Deputy Quality Manager

End of Report

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TC-12998

Test Report

ULR No.-TC129982500005486F
Test Report No. : ALPL/03092025/45-3 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/W-1/4-3 25/08/2025 4700126596/962-30. 05.2024		**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	167.39
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	1
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	27.81
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	51.64
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	0.16
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	12.57
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	7.93
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.68
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	7.21
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	462
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	180

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml	
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.06
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
IV	**Discipline : Chemical**	**Group : Residues in water**				
33	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)
34	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)

□ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwa
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005486F
Test Report No. : ALPL/03092025/45-3 dated 03/09/2025

Issued To :	Sample Inward No.	ALPL/25082025/W-1/4-3	Analysis Start	26/08/2025
Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	Inward Date	25/08/2025	Analysis End	02/09/2025
	Work Order No.	4700126596/962-30. 05.2024	Report Issue Date	03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Baihatu Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	Discipline : Chemical	Group : Residues in water				
35	Pesticide Residues Organochlorine					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7 8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garwa
Deputy Quality Manager

-----End of Report-----

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TC-12998

Test Report

ULR No.-TC129982500005487F
Test Report No. : ALPL/03092025/45-4 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/W-1/4-4 25/08/2025 4700126596/962-30. 05.2024		**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline : Biological**		**Group : Water**			
1	*Escherichia coli*	Per 100 ml	IS: 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	187.36
3	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	0.2	1.0	BLQ (LOQ-0.01)
4	Colour	Hazen	IS 3025 (Part 4) Clause 4	5	15	1
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	27.46
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	48.39
8	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.0	1.5	0.21
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	9.76
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	7.28
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.36
14	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
15	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	14.53
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	473
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	160

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005487F
Test Report No. : ALPL/03092025/45-4 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25082025/W-1/4-4 **Inward Date** 25/08/2025 **Work Order No.** 4700126596/962-30. 05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
III	**Discipline : Chemical**	**Group : Residues in water**				
20	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
23	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.11
27	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
29	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
30	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
IV	**Discipline : Chemical**	**Group : Residues in water**				
33	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)
34	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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Test Report

ULR No.-TC129982500005487F
Test Report No. : ALPL/03092025/45-4 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/W-1/4-4 25/08/2025 4700126596/962-30. 05.2024		**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025
Sample Name Ground Water	**Sample Source** Borewell	**Sample Condition** Sealed & Ice Preserved	**Purpose of Analysis** Drinking	**Quantity Received** 5.0 Ltr & 250 ml
Sampled by Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	**Sampling Date** 20/08/2025	**Sampling Time** 2.30 pm to 4.00 pm		**Sampling Location** Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
i	Alpha-HCH	µg/l	ANtr/7.2/RES/01	0.01	No relaxation	BLQ (LOQ-0.01)
ii	Beta HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
iii	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
iv	Delta- HCH	µg/l	ANtr/7.2/RES/01	0.04	No relaxation	BLQ (LOQ-0.03)
v	Alachlor	µg/l	ANtr/7.2/RES/01	20	No relaxation	BLQ (LOQ-0.03)
vi	Aldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01	0.03	No relaxation	BLQ (LOQ-0.03)
viii	Butachlor	µg/l	ANtr/7.2/RES/01	125	No relaxation	BLQ (LOQ-0.03)
ix	p,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
x	o,p´-DDE	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)

☐ **Please refer last Page for Note and Remarks.**

Verified By
Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005487F
Test Report No. : ALPL/03092025/45-4 dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25082025/W-1/4-4 **Inward Date** 25/08/2025 **Work Order No.** 4700126596/962-30. 05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue Date** 03/09/2025

Sample Name	Sample Source	Sample Condition	Purpose of Analysis	Quantity Received
Ground Water	Borewell	Sealed & Ice Preserved	Drinking	5.0 Ltr & 250 ml

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri as per Sampling Method No.ANtd/7.2/MON-01	20/08/2025	2.30 pm to 4.00 pm	Bichaikiri Village

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
V	**Discipline : Chemical**	**Group : Residues in water**				
35	**Pesticide Residues Organochlorine**					
xi	p,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xii	o,p´-DDD	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiii	o,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xiv	p,p´- DDT	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xv	Monocrotophos	µg/l	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
xvi	Atrazine	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
xx	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)
xxii	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)
xxiii	Phorate Phorate-sulfone Phorate-sulfoxide	µg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● 'µg/l' is equivalent to 'ppb'. ● **ANtr/7.2/RES/01, ANtr/7.2/RES/06, ANtr/7.2/RES/03 - Inhouse validated method ● BLQ= below limit of quantification, LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, sample was tested for above parameters only. **The submitted sample as per above sampling reference complies with requirement as per IS: 10500:2012, for tests conducted only.**

Verified By
Kashish Dhanrajani
Deputy Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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TC-12998

Test Report

ULR No.-TC129982500002471F

Test Report No. : ALPL02052025/9-37A dated 02/05/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/240425/W-3/38-31 & 32	**Analysis Start** 25/04/2025
	Inward Date	24/04/2025	**Analysis End** 30/04/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/05/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	17/04/2025	12.02 pm & 12.41 pm	1. Karo River (Upstream) (SW-1) 2. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	**Discipline : Biological**		**Group : Water**			
1	Coliform	/100ml	IS 15185	5000	Absent	Absent
II	**Discipline : Chemical**		**Group : Water**			
2	pH	-	IS 3025 (Part 11)	6.0 to 9.0	6.71	6.82
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	5	5
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1426	1382
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	306	294
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	164	152
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	23.91	18.43
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.28	0.21
9	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
10	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
11	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Dr. Anupa Tankhiwale
Sr. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500002471F

Test Report No. : ALPL02042025/7-39A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/240425/W-3/38-31 & 32	**Analysis Start** 25/04/2025
	Inward Date	24/04/2025	**Analysis End** 30/04/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/05/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	17/04/2025	12.02 pm & 12.41 pm	3. Karo River (Upstream) (SW-1) 4. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.46	0.36
13	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
14	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
15	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
18	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
19	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
20	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.07	0.04

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● 'mg/l' is equivalent to 'ppm'.
● BLQ= below limit of quantification , LOQ= limit of quantification.

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is complying with IS 2296:1992 Class C for the tested parameters.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Anacon Laboratories

Test Report

Test Report No. : ALPL02042025/7-39B dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/240425/W-3/38-31 & 32 **Inward Date** 24/04/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 25/04/2025 **Analysis End** 30/04/2025 **Report Issue date** 02/05/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	17/04/2025	12.02 pm & 12.41 pm	5. Karo River (Upstream) (SW-1) 6. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	**Discipline : Chemical**		**Group : Water**			
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	3.6	3.2
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	16	12
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.62	2.51
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	7.38	6.78
II	**Discipline : Chemical**		**Group : Residues in water**			
5	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification , LOQ= limit of quantification.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is complying with IS 2296:1992 Class C for the tested parameters.**

Verified By
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500002472F

Test Report No. : ALPL02042025/7-40A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/240425/W-3/38-33 & 34 **Inward Date** 24/04/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 25/04/2025 **Analysis End** 30/04/2025 **Report Issue date** 02/05/2025	

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-3 & 4	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	17/04/2025	12.41 pm & 12.56 pm	1. Koina River (Upstream) (SW-3) 2. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
I	**Discipline : Biological Group : Water**					
1	Coliform	/100ml	IS 15185	5000	Absent	Absent
II	**Discipline : Chemical Group : Water**					
2	pH	-	IS 3025 (Part 11)	6.0 to 9.0	6.84	7.31
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	5	5
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1357	1194
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	236	182
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	164	147
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	16.93	13.82
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.31	0.27
9	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
10	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
11	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Dr. Anupa Tankhiwale
Sr. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500002472F

Test Report No. : ALPL02042025/7-40A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/240425/W-3/38-33 & 34	**Analysis Start** 25/04/2025
	Inward Date	24/04/2025	**Analysis End** 30/04/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/05/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-3 & 4	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	17/04/2025	12.41 pm & 12.56 pm	3. Koina River (Upstream) (SW-3) 4. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
III	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.42	0.31
13	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
14	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
15	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
18	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
19	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
20	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.06	0.04

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● 'mg/l' is equivalent to 'ppm'.
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Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Anacon Laboratories

Test Report

Test Report No. : ALPL02042025/7-40B dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/240425/W-3/38-33 & 34	**Analysis Start** 25/04/2025
	Inward Date	24/04/2025	**Analysis End** 30/04/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/05/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-3 & 4	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	17/04/2025	12.41 pm & 12.56 pm	5. Koina River (Upstream) (SW-3) 6. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
I	**Discipline : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	3.2	2.8
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	26	24
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.71	2.68
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	6.91	5.82
III	**Discipline : Chemical**			**Group : Residues in water**		
5	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

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Verified By
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500004224F
Test Report No. ALPL/03072025/31-46A dated 03/07/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/23062025/W-6/42-35 & 36	**Analysis Start** 24/06/2025
	Inward Date	23/06/2025	**Analysis End** 30/06/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/07/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	18/06/2025	11.35 am & 11.50 am	1. Karo River (Upstream) (SW-1) 2. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	**Discipline : Biological**			**Group : Water**		
1	Coliform	/100ml	IS 15185	5000	Absent	Absent
II	**Discipline : Chemical**			**Group : Water**		
2	pH	-	IS 3025 (Part 11)	6.0 to 9.0	6.68	6.74
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	5	10
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1329	1284
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	289	247
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	231	169
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	26.58	22.47
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.65	0.25
9	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
10	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
11	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garwa
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500004224F
Test Report No. : ALPL/03072025/31-46A dated 03/07/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/23062025/W-6/42-35 & 36	**Analysis Start** 24/06/2025
	Inward Date	23/06/2025	**Analysis End** 30/06/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/07/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	18/06/2025	11.35 am & 11.50 am	3. Karo River (Upstream) (SW-1) 4. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.42	0.36
13	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
14	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
15	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
18	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
19	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
20	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.09	0.06

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample Bearing the details mentioned as above is complying with IS 2296:1992 Class C for the tested parameters .**

Verified By
Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Test Report

Test Report No. : ALPL/03072025/31-46B dated 03/07/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/23062025/W-6/42-35&36	**Analysis Start** 24/06/2025
	Inward Date	23/06/2025	**Analysis End** 30/06/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/07/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	18/06/2025	11.35 am & 11.50 am	5. Karo River (Upstream) (SW-1) 6. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	**Discipline : Chemical**		**Group : Water**			
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	3.8	3.2
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	22	18
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.34	2.15
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	8.96	7.68
II	**Discipline : Chemical**		**Group : Residues in water**			
5	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification , LOQ= limit of quantification.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample Bearing the details mentioned as above is complying with IS 2296:1992 Class C for the tested parameters .**

Verified By

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500004225F
Test Report No. : ALPL/03072025/31-47A dated 03/07/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/23062025/W-6/42-37 & 38 **Inward Date** 23/06/2025 **Work Order No.** 4700126596/962 date: 30.05.2024		**Analysis Start** 24/06/2025 **Analysis End** 30/06/2025 **Report Issue date** 03/07/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-3 & 4	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	18/06/2025	11.35 am & 11.50 am	1. Koina River (Upstream) (SW-3) 2. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
I	**Discipline : Biological**			**Group : Water**		
1	Coliform	/100ml	IS 15185	5000	Absent	Absent
II	**Discipline : Chemical**			**Group : Water**		
2	pH	-	IS 3025 (Part 11)	6.0 to 9.0	7.12	6.89
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	5	10
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1425	1328
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	396	248
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	215	321
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	22.54	17.92
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.48	0.25
9	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
10	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
11	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500004225F
Test Report No. : ALPL/03072025/31-47A dated 03/07/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/23062025/W-6/42-37&38 **Inward Date** 23/06/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 24/06/2025 **Analysis End** 30/06/2025 **Report Issue date** 03/07/2025	

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-3 & 4	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	18/06/2025	11.35 am & 11.50 am	3. Koina River (Upstream) (SW-3) 4. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
III	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.48	0.12
13	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
14	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
15	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
18	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
19	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
20	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.13	0.09

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Verified By
Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Test Report

Test Report No. : ALPL/03072025/31-47B dated 03/07/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/23062025/W-6/42-37 & 38 **Inward Date** 23/06/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 24/06/2025 **Analysis End** 30/06/2025 **Report Issue date** 03/07/2025	

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-3 & 4	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	18/06/2025	11.35 am & 11.50 am	5. Koina River (Upstream) (SW-3) 6. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
I	**Discipline : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	3.87	3.56
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	24	20
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.48	2.12
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	6.98	5.28
III	**Discipline : Chemical**			**Group : Residues in water**		
5	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

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Verified By

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----End of Report-----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500005482F
Test Report No. ALPL/03092025/31-44A dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/ENV-6/38-35 & 36 25/08/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue date** 03/09/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	22/08/2025	11.35 am & 11.50 am	1. Karo River (Upstream) (SW-1) 2. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	**Discipline : Biological**			**Group : Water**		
1	Coliform	/100ml	IS 15185	5000	Absent	Absent
II	**Discipline : Chemical**			**Group : Water**		
2	pH	-	IS 3025 (Part 11)	6.0 to 9.0	6.96	7.12
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	5	10
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1398	1352
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	401	368
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	365	302
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	35.12	30.52
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	1.06	0..68
9	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
10	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
11	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005482F
Test Report No. : ALPL/03092025/31-44A dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/ENV-6/38-35 & 36 25/08/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue date** 03/09/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	22/08/2025	11.35 am & 11.50 am	3. Karo River (Upstream) (SW-1) 4. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.44	0.38
13	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
14	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
15	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
18	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
19	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
20	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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Verified By
Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Test Report

Test Report No. : ALPL/03092025/31-44B dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/25082025/ENV-6/38-35 & 36	**Analysis Start** 26/08/2025
	Inward Date	25/08/2025	**Analysis End** 02/09/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/09/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	22/08/2025	11.35 am & 11.50 am	5. Karo River (Upstream) (SW-1) 6. Karo River (Downstream) (SW-2)
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-1	SW-2
I	**Discipline : Chemical**		**Group : Water**			
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	3.8	3.2
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	30	28
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.74	2.10
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	12.65	11.54
II	**Discipline : Chemical**		**Group : Residues in water**			
5	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

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Verified By
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500005483F

Test Report No. : ALPL/03092025/31-45A dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/ENV-6/38-37 & 38 25/08/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue date** 03/09/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	22/08/2025	11.35 am & 11.50 am	1. Koina River (Upstream) (SW-3) 2. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
I	**Discipline : Biological**			**Group : Water**		
1	Coliform	/100ml	IS 15185	5000	Absent	Absent
II	**Discipline : Chemical**			**Group : Water**		
2	pH	-	IS 3025 (Part 11)	6.0 to 9.0	6.75	7.02
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	5	10
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1345	1285
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	412	347
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	354	268
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	36	30
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	1.30	1.03
9	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
10	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
11	Anionic Detergents (as MBAS)	mg/l	IS 3025 (Part 68)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

☐ **Please refer last Page for Note and Remarks.**

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pranita Manchewar
Dy. Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005483F
Test Report No. : ALPL/03092025/31-45A dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25082025/ENV-6/38-37 & 38 25/08/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 26/08/2025 **Analysis End** 02/09/2025 **Report Issue date** 03/09/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	22/08/2025	11.35 am & 11.50 am	3. Koina River (Upstream) (SW-3) 4. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
III	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.40	0.35
13	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
14	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
15	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
18	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
19	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
20	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● 'mg/l' is equivalent to 'ppm'.
● **BLQ= below limit of quantification , LOQ= limit of quantification.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample Bearing the details mentioned as above is complying with IS 2296:1992 Class C for the tested parameters .**

Verified By
Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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Test Report

Test Report No. : ALPL/03092025/31-45B dated 03/09/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/25082025/ENV-6/38-37 & 38	**Analysis Start** 26/08/2025
	Inward Date	25/08/2025	**Analysis End** 02/09/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/09/2025

Sample Description	Sample Source	Sample Particulars	Sample Condition	Quantity Received
Surface Water	1. Upstream 2. Downstream	Sample Code-SW-1 & 2	Sealed & Ice Preserved	2.0 Ltr & 250 ml each

Sampled by	Sampling Date	Sampling Time	Sampling Location
Anacon Representative Mr. Biplab Giri	22/08/2025	11.35 am & 11.50 am	5. Koina River (Upstream) (SW-3) 6. Koina River (Downstream) (SW-4)
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards as per IS 2296:1992 Class C	Test Result	
					SW-3	SW-4
I	**Discipline : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	3.6	3.0
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	32	26
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.87	2.13
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	8.24	7.56
III	**Discipline : Chemical**			**Group : Residues in water**		
5	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample Bearing the details mentioned as above is complying with IS 2296:1992 Class C for the tested parameters .**

Verified By
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

-----End of Report-----

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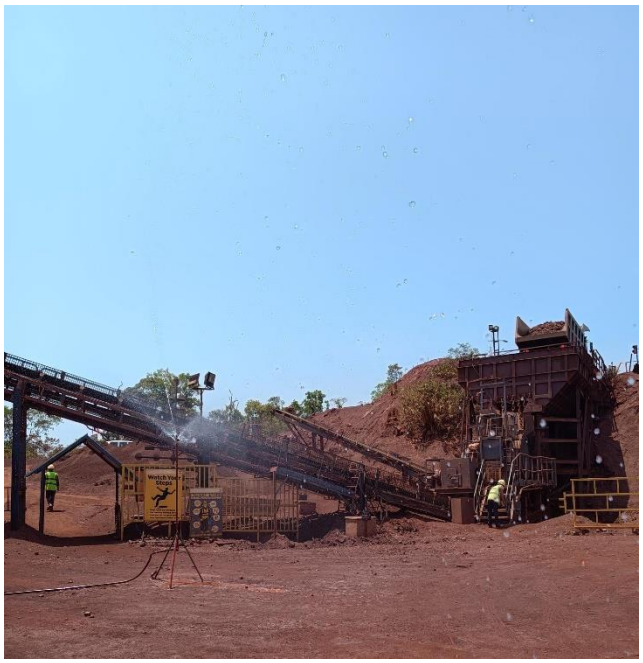
Annexure- 10

Fugitive Dust Suppression Measures



जल ही जीवन है/
WATER TANKER
TATA STEEL
LOW
HORN

JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004
Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-21847276/2025/1711 Dated : 2025-06-24

Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Application (s) dated 2025-04-17 of Vijay-II Iron Ore Mines(Tata Steel Limited), Occupier Name :Rajeev Kumar for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act,1981..

2. Documents Relied Upon:

The Content of:

1. Environmental Clearance (EC):

Environmental Clearance (EC), Ref No. J-11015/48/2001-IA.II(M) dated 19.04.2005, Corrigendum of even letter dated 29.05.2006 and 02.02.2007, and Ref No. J-11015/507/2007-IA.II(M) dated 22.12.2008 issued by MoEF, Govt. of India, New Delhi.

Environmental Clearance (EC) was granted to M/S Vijay-II Iron Ore Mines project of M/S Usha Martin Limited vide F.No- J-11015/1507/2007-IA-II(M), dated 22.12.2008, which was transferred to M/S Tata Steel Limited vide F.No- J-11015/1507/2007-IA-II(M), dated 02.07.2024 for expansion Vijaya- II Iron Ore Mines with production capacity of 2.5 MTPA.

2. Consent-to-Establish (CTE), Ref No. N-227, dated 17.04.2004 and Ref No. 3676 Ranchi, dated 11.10.2007 in the name of M/S Usha Martin Limited.

3. Mining Lease and Extension:

The first mining lease granted to M/S Vijay-II Iron Ore Mines project of M/S Usha Martin Limited by the State Government of Jharkhand for 20 years, from 18.08.2005 to 17.08.2025, which was transferred to M/S Tata Steel Ltd. vide 2019/CHA/144/18K1/417, dated 11.08.2019.

4. Mining Plan Approval:

Approval of Modification and Review of Mining Plan along with Progressive Mine Closure Plan in respect of Vijay-II Iron Ore Mine, over an area of 155.078 hectares, located in Village Ghatkuri, Taluka & P.S.- Noamundi, Dist- West Singhbhum, vide Ref. RAN/WSB/Fe/MP-35/2019-20, dated 22.09.2020 from Indian Bureau of Mines, Ministry of Mines, Govt. of India.

5. Consent to Operate (CTO) vide Ref No. JSPCB/HO/RNC/CTO-19937038/2024/1989 Dated : 2024-12-25, for site as per EC Area As per EC Investment 13580.375 lac for Iron Ore -2.5 Million Ton/annum valid till 17.08.2025; along with compliance report and photographs showing compliance.

6. Inspection report vide Ref. No. 639 dated 10.05.2025 and noting dated 26.05.2025 of Regional Officer, Regional Office-Cum-Laboratory, J.S.P.C. Board, Jamshedpur.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -Ghatkhuri RF , P S - , District -WEST SINGHBHUM , as follows:

Project	Site-Area		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To
Before Expansion	As per EC	As per EC	37652.94 Lacs. (Revised)	Iron Ore -2.5 Million Ton/annum	30/06/2027

(A) Specific Conditions:

1. That, the occupier shall establish and operate well equipped environmental laboratory with facilities to monitor at least all regulatory parameters and duly accredited by NABL/ISO 9001 with OHSAS 18001.

2. That, the occupier shall comply all the conditions imposed in Environmental Clearance issued vide letter No. J-11015/48/2001-IA.II(M) dated 19.04.2005, Corrigendum even letter dated 29.05.2006, Corrigendum even letter dated 02.02.2007 & Ref No. J-11015/507/2007-IA.II(M) dated 22.12.2008 issued by MOEF, Govt. of India within the consent period.

3. That, the occupier shall comply with the condition of clearance under Forest (Conservation) Act, 1980 stipulated by MOEF vide letter no. 12 (21) 51/2004-FCE dated 12.07.2005 & letter no. F.No. 8- 88/2007-FC(Pt) dated 09.11.2012

4. That, the occupier shall submit a copy of six monthly report regarding compliance of conditions imposed in Environmental Clearance which is presently being submitted to Regional Office, MOEF, Govt. of India, Bhuwneshwar.

5. That, the occupier shall take appropriate mitigative measures to prevent pollution of Karo river and the Koina river.

6. That, the occupier shall do sprinkling of water time to time on haul roads and dusty areas.

7. That, the occupier shall do sprinkling of water time to time on haul roads and dusty areas.

8. That, the over burden dump shall be made in accordance with conditions imposed in Environmental Clearance. Retaining wall shall be provided at the toe of over burden dump to check run off.

9. That, the over burden dump shall be made in accordance with conditions imposed in Environmental Clearance. Retaining wall shall be provided at the toe of over burden dump to check run off.

10. That, the transportation shall be done through covered vehicle to avoid fugitive dust emission.

11. That, the occupier shall provide STP for colony and ETP for Workshop and waste water generated during mining operation.

12. That, the occupier shall not exceed the annual production as granted by MOEF in the environmental clearance order issued vide letter no. J-11015/507/2007-IA.II (M) dated 22.12.2008 and submit six monthly production figure duly certified by the Dist. Mining Officer, Chaibasa, West Singhbhum.

13. That, the occupier shall maintain and operate special water jets with mist water spray at dumper platform and loading points to suppress fugitive emission.

14. That, the mining operations shall be restricted to above the ground water table and it should be not intersect the ground water table.

15. That, the top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The top soil shall be used for land reclamation and plantation.

16. That, the occupier shall do blasting operation only during the day time.

17. That, the occupier shall fully implement rain water harvesting system as per design approved by CGWB/State Ground Water Board.

18. This Consent to Operate(CTO) is valid subject to the approved mining plan.

19. That, the occupier shall submit applications for renewal of consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expiry of this consent, with requisite fee and documents showing compliance of all of the above conditions.

(B) General Conditions :

(1) That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO2), µg/m3	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO2), µg/m3	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM10, µg/m3	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM2.5, µg/m3	Annual 24 hours	40 60	40 60
5.	Ozone(O3), µg/m3	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m3	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m3	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH3) µg/m3	Annual 24 hours	100 400	100 400
9.	Benzene (C6H6) µg/m3	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m3	Annual	01	01
11.	Arsenic (As) ng/m3	Annual	06	06
12.	Nickel (Ni) ng/m3	Annual	20	20

Note : Serial no. 1 to 4 – Mandatory
Serial no. 5 to 12 As applicable for specific type of industry.

(2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

S N	Parameter	Standard
1	Particulate Matter	100 mg/ Nm3

(3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

(4) That, the occupier shall dispose of solid wastes as follows:

S N	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

(5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.

(6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.

(7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.

(9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

(10) That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/Ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.

(11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ occupier.

(12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.

(13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.

4. That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.

5. That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.

6. The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.

7. The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.

Rajeev Lochan Bakshi
Digitally signed by Rajeev Lochan Bakshi
Date: 2025.06.24 09:00:15 +05'30'

This is issued with the approval of the Competent authority

(Rajeev Lochan Bakshi)
Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-21847276/2025/1711

Dated : 2025-06-24

Copy to: M/s Vijay-II Iron Ore Mines(Tata Steel Limited), Tata Steel Limited, Vijay-II Iron Ore Mines, Ghatkuri RF, Post-Barajamda, Thana -Gua, Block Noamundi, Dist West Singhbhum/ Chief Inspector of Factories, Ranchi/ Director of Industry, Government of Jharkhand, Ranchi / Dy. Commissioner, West Singhbhum / D.F.O. Saranda Division, Chaibasa, West Singhbhum / Dist. Mining Officer, West Singhbhum / Regional Officer, Regional Office-Cum-Laboratory, Jamshedpur for information & necessary action

Rajeev Lochan Bakshi
Digitally signed by Rajeev Lochan Bakshi
Date: 2025.06.24 09:00:43 +05'30'

(Rajeev Lochan Bakshi)
Member Secretary

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Test Report

Fugitive Emission Report-April-2025

Report No.: ALPL/02052025/9-35			**Date:** 02/05/2025
Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.** 4700126596/962-30.05.2024
Sample Description/Type	**Fugitive Emission**	**Inward No.**	ALPL/14042025/ENV-3/25-22 to 25 ALPL/24/04/2025/ ENV-3/38-35 to 38
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	14/04/2025 & 24/04/2025
Test Started On:-	15/04/2025 & 25/04/2025	**Test Completed On**	16/04/2025 & 26/04/2025
Sampling Method	ANtd/7.2/Mon-01		

Sl. No.	**Location Name**	**Date of sampling**	**TSPM µg/m³**	**Date of sampling**	**TSPM µg/m³**
		Test Method	IS 5182 (Part 23)	**Test Method**	IS 5182 (Part 23)
FE-1	Near Crusher	01/04/2025	623	16/04/2025	532
FE-2	Haul Road	02/04/2025	698	15/04/2025	523
FE-3	Near Screening Plant	03/04/2025	528	16/04/2025	621
FE-4	Exit Main Gate	04/04/2025	621	17/04/2025	674
MoEF & CC Norms:		**1200 µg/m³**			

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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by
Shehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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Test Report

Fugitive Emission Report-May-2025

Report No.: ALPL/03062025/7-47			**Date:** 03/06/2025
Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.** 4700126596/962-30.05.2024
Sample Description/Type	**Fugitive Emission**	**Inward No.**	ALPL/26052025/ENV-6/35-13 to 20
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	26/04/2025
Test Started On:-	27/05/2025	**Test Completed On**	29.05.2025
Sampling Method	ANtd/7.2/Mon-01		

Sl. No.	**Location Name**	**Date of sampling**	**TSPM µg/m³**	**Date of sampling**	**TSPM µg/m³**
		Test Method	IS 5182 (Part 4)	**Test Method**	IS 5182 (Part 4)
FE-1	Near Crusher	12/05/2025	745	19/05/2025	685
FE-2	Haul Road	13/05/2025	658	20/05/2025	596
FE-3	Near Screening Plant	14/05/2025	549	21/05/2025	610
FE-4	Exit Main Gate	15/05/2025	523	22/05/2025	471
MoEF & CC Norms:		**1200 µg/m³**			

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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

Test Report

Fugitive Emission Report-June-2025

Report No.: ALPL/03072025/31-38			**Date:** 03/07/2025
Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.** 4700126596/962 date: 30.05.2024
Sample Description/Type	**Fugitive Emission**	**Sample Ref. No.:-**	ALPL/09062025/ENV-6/24-17 to 20 ALPL/16062025/ENV-6/31-17 to 20 ALPL/23062025/ENV-6/42-21 to 24 ALPL/01072025/ENV-6/24-17 to 20
Sampled by	Anacon Representative Mr. Suveer Bhoi	**Sample Inward Date:-**	09, 16, 23 June-2025 & 01 July 2025
Test Started On:-	10, 17, 24 June-2025 & 01 July 2025	**Test Completed On:-**	12, 19, 26 June-2025 & 02 July 2025
Sampling Procedure	ANtd/7.2/Mon-01		

Sl. No.	**Location Name**	**Date of sampling**	**TSPM µg/m³**	**Date of sampling**	**TSPM µg/m³**
		Test Method	IS 5182 (Part 23)	**Test Method**	IS 5182 (Part 23)
FE-1	Near Crusher	03.06.2025	625	17.06.2025	518
		05.06.2025	528	19.06.2025	498
		10.06.2025	568	24.06.2025	614
		12.06.2025	480	26.06.2025	623
Average Value of FE-1		**557**			
FE-2	Haul Road	03.06.2025	574	17.06.2025	698
		05.06.2025	712	19.06.2025	526
		10.06.2025	624	24.06.2025	486
		12.06.2025	563	26.06.2025	598
Average Value of FE-2		**597**			
MoEF & CC Norms:		**1200 µg/m³**			

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs.

Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garwa
Deputy Quality Manager

----End of Report----

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Anacon Laboratories

Test Report

Fugitive Emission Report-June-2025

Report No.: ALPL/03072025/31-39			Date: 03/07/2025
Name and Address of Industry:-	M/s Joda East Iron Mine (M/s TATA Steel Limited)		W. O. No. 4700126596/962 date: 30.05.2024
Sample Description/Type	Fugitive Emission	Sample Ref. No.:-	ALPL/09062025/ENV-6/24-21 to 24 ALPL/16062025/ENV-6/31-21 to 24 ALPL/23062025/ENV-6/42-25 to 28 ALPL/01072025/ENV-6/24-21 to 24
Sampled by	Anacon Representative Mr. Suveer Bhoi	Sample Inward Date:-	09, 16, 23 June-2025 & 01 July 2025
Test Started On:-	10, 17, 24 June-2025 & 01 July 2025	Test Completed On:-	12, 19, 26 June-2025 & 02 July 2025
Sampling Procedure	ANtd/7.2/Mon-01		

Sl. No.	Location Name	Date of sampling	TSPM µg/m³	Date of sampling	TSPM µg/m³
		Test Method	IS 5182 (Part 23)	Test Method	IS 5182 (Part 23)
FE-3	Near Screening Plant	03.06.2025	625	17.06.2025	584
		05.06.2025	634	19.06.2025	498
		10.06.2025	519	24.06.2025	574
		12.06.2025	598	26.06.2025	520
Average Value of FE-1		569			
FE-4	Exit Main Gate	03.06.2025	496	17.06.2025	574
		05.06.2025	426	19.06.2025	514
		10.06.2025	621	24.06.2025	593
		12.06.2025	582	26.06.2025	463
Average Value of FE-2		533			
MoEF & CC Norms:		1200 µg/m³			

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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Ganvay
Deputy Quality Manager

----End of Report----

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Test Report

Fugitive Emission Report-July-2025

Report No.: ALPL/04082025/23-39			Date: 04/08/2025
Name and Address of Industry:-	Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.		W. O. No. 4700126596/962 date: 30.05.2024
Sample Description/Type	Fugitive Emission	Sample Ref. No.:-	ALPL/09072025/ENV-6/18-17 to 18 ALPL/16072025/ENV-6/10-9 to 10 ALPL/24072025/ENV-6/20-9 & 10 ALPL/02082025/ENV-6/10-9 & 10
Sampled by	Anacon Representative Mr. Suveer Bhoi	Sample Inward Date:-	09, 16, 24 July-2025 & 02 August-2025
Test Started On:-	10, 17, 25 July-2025 & 02 August-2025	Test Completed On:-	11, 18, 26 July-2025 & 04 August 2025
Sampling Procedure	ANtd/7.2/Mon-01		

Sl. No.	Location Name	Date of sampling	TSPM µg/m^3
		Test Method	IS 5182 (Part 4)
FE-1	Near Crusher	04.07.2025	587
		10.07.2025	598
FE-2	Haul Road	05.07.2025	485
		11.07.2025	487
FE-3	Near Screening Plant	17.07.2025	512
		24.07.2025	605
FE-4	Near Main Gate	18.07.2025	457
		25.07.2025	398
MoEF & CC Norms:		1200 µg/m^3	

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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----*End of Report*----

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Test Report

Fugitive Emission Report-August-2025

Report No.: ALPL/03092025/31-39			**Date:**
Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.** 4700126596/962 date: 30.05.2024
Sample Description/Type	**Fugitive Emission**	**Sample Ref. No.:-**	ALPL/12082025/ENV-6/24-17 & 18 ALPL/19082025/ENV-6/24-17 & 18 ALPL/25082025/ENV-6/38-23 & 24 ALPL/02092025/ENV-6/24-17 & 18
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	12, 19, 25 August-2025 & 02 September-2025
Test Started On:-	13, 20, 26 August-2025 & 02 September-2025	**Test Completed On:-**	14, 21, 28 August-2025 & 03 September-2025
Sampling Procedure	ANtd/7.2/Mon-01		

Sl. No.	**Location Name**	**Date of sampling**	**TSPM µg/m³**
		Test Method	IS 5182 (Part 4)
FE-1	Near Crusher	06.08.2025	578
		07.08.2025	569
FE-2	Haul Road	12.08.2025	512
		13.08.2025	489
FE-3	Near Screening Plant	20.08.2025	475
		21.08.2025	468
FE-4	Near Main Gate	28.08.2025	512
		29.08.2025	488
MoEF & CC Norms:		**1200 µg/m³**	

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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500002465F

Test Report No.: ALPL/02052025/9-29 Dated: 02/05/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/240425/ENV-3/38-21 **Inward Date:** 24/04/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/05/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 14/04/2025 **Time of sampling & duration :** 11:45 am & 24 hrs **Sampling location :** **Near Main Gate** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/April-2025/2 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical

Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	67.2	54.1	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500002466F

Test Report No.: ALPL/02052025/9-30 Dated: 02/05/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/240425/ENV-3/38-22 **Inward Date:** 24/04/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/05/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 15/04/2025 **Time of sampling & duration :** 12:20 pm & 24 hrs **Sampling location :** Quarry-II (Near DG Set) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ April-2025/2 **Weather Conditions :** Satisfactory & Clear **Any other observation:** (If applicable) : -	

Discipline: Chemical

Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near DG Set)	IS 9989	71.3	64.8	Industrial Area	75	70

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Verified by
Snehal Raut
Technical Manager

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Chinmay Garway
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TC-12998

Test Report

ULR No.-TC129982500002467F

Test Report No.: ALPL/02052025/9-31 Dated: 02/05/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/240425/ENV-3/38-23 **Inward Date:** 24/04/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/05/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 16/04/2025 **Time of sampling & duration :** 12:50 pm & 24 hrs **Sampling location :** Quarry-II (Near Crusher) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ April-2025/2 **Weather Conditions :** Satisfactory & Clear **Any other observation:** (If applicable) : -	

Discipline: Chemical

Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Crusher)	IS 9989	64.9	53.8	Industrial Area	75	70

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Verified by
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Technical Manager

Authorized Signatory
✓ Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500002468F

Test Report No.: ALPL/02052025/9-32 Dated: 02/05/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/240425/ENV-3/38-24 **Inward Date:** 24/04/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/05/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 17/04/2025 **Time of sampling & duration :** 1:45 pm & 24 hrs **Sampling location : Near Quarry-II (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ April-2025/2 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical

Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-II (Mining Area)	IS 9989	71.6	64.3	Industrial Area	75	70

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Technical Manager

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Chinmay Garway
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TC-12998

Test Report

ULR No.-TC129982500002469F

Test Report No.: ALPL/02052025/9-33 Dated: 02/05/2025

Issued To: **M/s. Vijay II Iron Ore Mines** , M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/240425/ENV-3/38-25 **Inward Date:** 24/04/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/05/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 18/04/2025 **Time of sampling & duration :** 1:55 pm & 24 hrs **Sampling location :** **Quarry-II (Near Screen Plant)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ April-2025/2 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical

Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Screen Plant)	IS 9989:1981	58.7	41.9	Industrial Area	75	70

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Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500002470F

Test Report No.: ALPL/02052025/9-34 Dated: 02/05/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/240425/ENV-3/38-26 **Inward Date:** 24/04/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/05/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 19/04/2025 **Time of sampling & duration :** 3:10 pm & 24 hrs **Sampling location : Near Quarry-I (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/April-2025/2 **Weather Conditions :** Satisfactory & Clear **Any other observation:** (If applicable) : -	

Discipline: Chemical

Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Quarry-I (Mining Area)	IS 9989	71.3	64.8	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

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TC-12998

Test Report

ULR No.-TC129982500002978F
Test Report No.: ALPL/03062025/7-41 Dated: 03/06/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/26052025/ENV-6/35-21 **Inward Date:** 26/05/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/06/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 19/05/2025 **Time of sampling & duration :** 11:45 am & 24 hrs **Sampling location :** Near Main Gate **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/May-2025/4 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical
Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	68.3	56.1	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.-TC129982500002979F
Test Report No.: ALPL/03062025/7-42 Dated: 03/06/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/26052025/ENV-6/35-22 **Inward Date:** 26/05/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/06/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 20/05/2025 **Time of sampling & duration :** 12:20 pm & 24 hrs **Sampling location :** **Quarry-II (Near DG Set)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ May-2025/4 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical
Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near DG Set)	IS 9989	73.5	64.1	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500002980F
Test Report No.: ALPL/03062025/7-43 Dated: 03/06/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/26052025/ENV-6/35-23 **Inward Date:** 26/05/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/06/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 26/05/2025 **Time of sampling & duration :** 12:50 pm & 24 hrs **Sampling location :** Quarry-II (Near Crusher) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ May-2025/4 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical
Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Crusher)	IS 9989	68.3	55.2	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500002981F
Test Report No.: ALPL/03062025/7-44 Dated: 03/06/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/26052025/ENV-6/35-24 **Inward Date:** 26/05/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/06/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 27/05/2025 **Time of sampling & duration :** 1:45 pm & 24 hrs **Sampling location : Near Quarry-II (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ May-2025/4 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical
Group: Atmospheric Pollution

Test Results
Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-II (Mining Area)	IS 9989	70.3	64.3	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Ganvay
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500002982F
Test Report No.: ALPL/03062025/7-45 Dated: 03/06/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/26052025/ENV-6/35-25 **Inward Date:** 26/05/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/06/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 28/05/2025 **Time of sampling & duration :** 1:55 pm & 24 hrs **Sampling location : Quarry-II (Near Screen Plant)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/ May-2025/4 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical
Group: Atmospheric Pollution

Test Results

Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Screen Plant)	IS 9989	58.7	41.9	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500002983F
Test Report No.: ALPL/03062025/7-46 Dated: 03/06/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/26052025/ENV-6/35-26 **Inward Date:** 26/05/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/06/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 29/05/2025 **Time of sampling & duration :** 3:10 pm & 24 hrs **Sampling location : Near Quarry-I (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/May-2025/4 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Discipline: Chemical
Group: Atmospheric Pollution

Test Results
Ambient Noise Level

Sr. No.	Location	Test Method	Test Result dB (A)		CPCB standards for Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-I (Mining Area)	IS 9989	71.3	64.8	Industrial Area	75	70

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Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500004218F
Test Report No.: ALPL/03072025/31-40 Dated: 03/07/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/23062025/ENV-6/31-25 **Inward Date:** 23/06/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/07/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 09/06/2025 **Time of sampling & duration :** 11:45 am & 24 hrs **Sampling location :** Near Main Gate **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/June-2025/6 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	68.2	61.3	Industrial Area	75	70

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Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Ganway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500004219F
Test Report No.: ALPL/03072025/31-41 Dated: 03/07/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/23062025/ENV-6/31-26 **Inward Date:** 23/06/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/07/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 10/06/2025 **Time of sampling & duration :** 12:20 pm & 24 hrs **Sampling location :** Quarry-II (Near DG Set) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/June-2025/6 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near DG Set)	IS 9989	73.2	65.9	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwey
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500004220F

Test Report No.: ALPL/03072025/31-42 Dated: 03/07/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/23062025/ENV-6/31-27 **Inward Date:** 23/06/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/07/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 11/06/2025 **Time of sampling & duration :** 12:50 pm & 24 hrs **Sampling location :** Quarry-II (Near Crusher) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/June-2025/6 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Crusher)	IS 9989	69.9	58.1	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500004221F
Test Report No.: ALPL/03072025/31-43 Dated: 03/07/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/23062025/ENV-6/31-28 **Inward Date:** 23/06/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/07/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 12/06/2025 **Time of sampling & duration :** 1:45 pm & 24 hrs **Sampling location : Near Quarry-II (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/June-2025/6 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-II (Mining Area)	IS 9989	72.9	61.8	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.-TC129982500004222F
Test Report No.: ALPL/03072025/31-44 Dated: 03/07/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/23062025/ENV-6/31-29 **Inward Date:** 23/06/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/07/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 13/06/2025 **Time of sampling & duration :** 1:55 pm & 24 hrs **Sampling location :** Quarry-II (Near Screen Plant) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/June-2025/6 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Screen Plant)	IS 9989:1981	61.3	45.9	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500004223F

Test Report No.: ALPL/03072025/31-45 Dated: 03/07/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/23062025/ENV-6/31-30 **Inward Date:** 23/06/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/07/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 14/06/2025 **Time of sampling & duration :** 3:10 pm & 24 hrs **Sampling location : Near Quarry-I (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/June-2025/6 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable).: -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-I (Mining Area)	IS 9989	70.8	65.4	Industrial Area	75	70

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Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500004842F
Test Report No.: ALPL/04082025/23-33 Dated: 04/08/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/24072025/ENV-6/20-11 **Inward Date:** 24/07/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 04/08/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:** 202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 14/07/2025 **Time of sampling & duration :** 11:45 am & 24 hrs **Sampling location :** Near Main Gate **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/July-2025/7 **Weather Conditions :** Satisfactory & Clear **Any other observation:** (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	65.2	59.3	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Gatway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500004843F
Test Report No.: ALPL/04082025/23-34 Dated: 04/08/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/24072025/ENV-6/20-12 **Inward Date:** 24/07/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 04/08/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No.**:202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 15/07/2025 **Time of sampling & duration :** 12:20 pm & 24 hrs **Sampling location :** Quarry-II (Near DG Set) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/July-2025/7 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near DG Set)	IS 9989	71.5	63.8	Industrial Area	75	70

NOTES: ● Please see watermark 'Original Test Report' to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwaly
Deputy Quality Manager

----*End of Report*----

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Test Report

ULR No.-TC129982500004844F
Test Report No.: ALPL/04082025/23-35 Dated: 04/08/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/24072025/ENV-6/20-13 **Inward Date:** 24/07/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 04/08/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No:** 202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 16/07/2025 **Time of sampling & duration :** 12:50 pm & 24 hrs **Sampling location :** Quarry-II (Near Crusher) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/July-2025/7 **Weather Conditions :** Satisfactory & Clear **Any other observation:** (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Crusher)	IS 9989	68.5	60.2	Industrial Area	75	70

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Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500004845F
Test Report No.: ALPL/04082025/23-36 Dated: 04/08/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	Sample Inward No.: ALPL/24072025/ENV-6/20-14 Inward Date: 24/07/2025 Work Order No. 4700126596/962-30.05.2024	Report Issue Date: 04/08/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: Instrument ID : ALPL-TSL/CEIS-SLM/2024/05 Calibration Status :23/08/2024-22/08/2025 Make & Model : HTC-SL-1356 Serial No: 202405733	Sampled by Anacon Representative: Mr.Biplab Giri Date of Sampling : 17/07/2025 Time of sampling & duration : 1:45 pm & 24 hrs Sampling location : Near Quarry-II (Mining Area) Reference to sampling procedure: ANtd/7.2/Mon-01 Reference to sampling plan: ANtd/7.3/Mon-02/July-2025/7 Weather Conditions : Satisfactory & Clear Any other observation: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Quarry-II (Mining Area)	IS 9989	70.4	65.8	Industrial Area	75	70

NOTES: • Please see watermark 'Original Test Report' to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Ganjay
Deputy Quality Manager

----*End of Report*----

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Test Report

ULR No.-TC129982500004846F
Test Report No.: ALPL/04082025/23-37 Dated: 04/08/2025

Issued To: M/s Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221	**Sample Inward No.:** ALPL/24072025/ENV-6/20-15 **Inward Date:** 24/07/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 04/08/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Calibration Status :**23/08/2024-22/08/2025 **Make & Model :** HTC-SL-1356 **Serial No.**:202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 18/07/2025 **Time of sampling & duration :** 1:55 pm & 24 hrs **Sampling location :** Quarry-II (Near Screen Plant) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/July-2025/7 **Weather Conditions :** Satisfactory & Clear **Any other observation** (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for,Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Screen Plant)	IS 9989:1981	67.5	58.2	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500004847F
Test Report No.: ALPL/04082025/23-38

Dated: 04/08/2025

Issued To: M/s Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	Sample Inward No.: ALPL/24072025/ENV-6/20-16 Inward Date: 24/07/2025 Work Order No. 4700126596/962-30.05.2024	Report Issue Date: 04/08/2025
Sample Subgroup : Ambient Noise	Sample Description: Ambient Noise	
Samplings details: Instrument ID : ALPL-TSL/CEIS-SLM/2024/05 Calibration Status :23/08/2024-22/08/2025 Make & Model : HTC-SL-1356 Serial No.:202405733	Sampled by Anacon Representative: Mr.Biplab Giri Date of Sampling : 19/07/2025 Time of sampling & duration : 3.10 pm & 24 hrs Sampling location : Near Quarry-I (Mining Area) Reference to sampling procedure: ANtd/7.2/Mon-01 Reference to sampling plan: ANtd/7.3/Mon-02/July-2025/7 Weather Conditions : Satisfactory & Clear Any other observation: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical		Group: Atmospheric Pollution		Material or Product tested : Ambient Noise		
1	Near Quarry-I (Mining Area)	IS 9989	69.1	62.8	Industrial Area	75	70

NOTES: ● Please see watermark 'Original Test Report' to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----*End of Report*----

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TC-12998

Test Report

ULR No.-TC129982500005476F
Test Report No.: ALPL/03092025/31-33 Dated: 03/09/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25082025/ENV-6/38-17 **Inward Date:** 25/08/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/09/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 18/08/2025 **Time of sampling & duration :** 11:45 am & 24 hrs **Sampling location :** Near Main Gate **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/August-2025/8 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	68.2	62.4	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Shehal Raut
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.-TC129982500005477F
Test Report No.: ALPL/03092025/31-34 Dated: 03/09/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25082025/ENV-6/38-18 **Inward Date:** 25/08/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/09/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 19/08/2025 **Time of sampling & duration :** 12:20 pm & 24 hrs **Sampling location :** Quarry-II (Near DG Set) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/August-2025/8 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near DG Set)	IS 9989	73.6	65.4	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Ganwar
Deputy Quality Manager

----End of Report----

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.-TC129982500005478F
Test Report No.: ALPL/03092025/31-35 Dated: 03/09/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25082025/ENV-6/38-19 **Inward Date:** 25/08/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/09/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 20/08/2025 **Time of sampling & duration :** 12:50 pm & 24 hrs **Sampling location :** Quarry-II (Near Crusher) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/August-2025/8 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Crusher)	IS 9989	70.5	61.5	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005479F
Test Report No.: ALPL/03092025/31-36 Dated: 03/09/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25082025/ENV-6/38-20 **Inward Date:** 25/08/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/09/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 21/08/2025 **Time of sampling & duration :** 1:45 pm & 24 hrs **Sampling location : Near Quarry-II (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/August-2025/8 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-II (Mining Area)	IS 9989	69.4	60.8	Industrial Area	75	70

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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Ganvay
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500005480F
Test Report No.: ALPL/03092025/31-37 Dated: 03/09/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25082025/ENV-6/38-21 **Inward Date:** 25/08/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/09/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Make & Model :** HTC-SL-1356 **Serial No:**.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 22/08/2025 **Time of sampling & duration :** 1:55 pm & 24 hrs **Sampling location :** Quarry-II (Near Screen Plant) **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/August-2025/8 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Quarry-II (Near Screen Plant)	IS 9989:1981	65.9	55.4	Industrial Area	75	70

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Verified by
Snehal Raut
Technical Manager

Authorized Signatory
Chinmay Garwal
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500005481F
Test Report No.: ALPL/03092025/31-38 Dated: 03/09/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25082025/ENV-6/38-22 **Inward Date:** 25/08/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/09/2025
Sample Subgroup : Ambient Noise	**Sample Description:** Ambient Noise	
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-SLM/2024/05 **Make & Model :** HTC-SL-1356 **Serial No**:.202405733	**Sampled by Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 23/08/2025 **Time of sampling & duration :** 3:10 pm & 24 hrs **Sampling location : Near Quarry-I (Mining Area)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/August-2025/8 **Weather Conditions :** Satisfactory & Clear **Any other observation**: (If applicable) : -	

Test Results

Sr. No.	Location	Test Method	Ambient Noise Level		CPCB standards for Ambient Noise Levels		
			Leq dB (A) (Day Time)	Leq dB (A) (Night Time)	Category of Areas:	Leq dB (A) (Day Time)	Leq dB (A) (Night Time)
	Discipline: Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1	Near Quarry-I (Mining Area)	IS 9989	70.9	66.4	Industrial Area	75	70

NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

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Date: 31.07.2024

OMQ/EMP/02/2024

DECLARATION

Formation of Environment Management Cell

Location: Ore Mines & Quarry Division which includes following locations→

1. Noamundi Iron Mine, over 1160.06 Ha located at Mahul, Balijore, Korta, Noamundi, Sarbil &Balijori villages, West Singhbhum District, Jharkhand.
2. Katamati Iron Mine, over 403.3238 Ha. At village Deojhar & Thakurani RF, Keonjhar District, Odisha.
3. Joda East Iron Mines, over 671.093 Ha. Located in village Joda, Kamarjoda, Banspani, Khuntpani &Baitarani RF in Barbil Taluka, Keonjhar District, Odisha.
4. Khondbond Iron & Mn. Mines, over 978 Ha. Located in village Khondbandh, Tehsil Barbil, Keonjhar District, Odisha.
5. Vijaya-II Iron Ore Mines, over 155.078 Ha. Located in village Ghatkuri, Tehsil: Noamundi, West Singhbhum District, Jharkhand.
6. Kalamang West (Northern Part) Block Iron Ore Mines, over 92.875 Ha. Located at village Gandalpada, Keonjhar District in villages Kalamang & Ghodabudani, Sundargarh Districts, Odisha.
7. Neelachal Iron Ore Mines, over 874.290 Ha. Located at Keonjhar & Sundargarh Districts, Odisha.
8. Gandhalpada Iron Ore Mine, over 241.10 Ha. At Gandhalpada, Guali and Barpada Villages, Barbil Tehsil, Keonjhar District, Odisha.

A separate Environment Management Cell has been formed, with suitable qualified personnel, under the control of Chief Mine Planning & Projects, who reports directly to the General Manager of Ore Mines & Quarry Division. The environment Management Cell will ensure compliance of following Acts & Rules but not limited to:

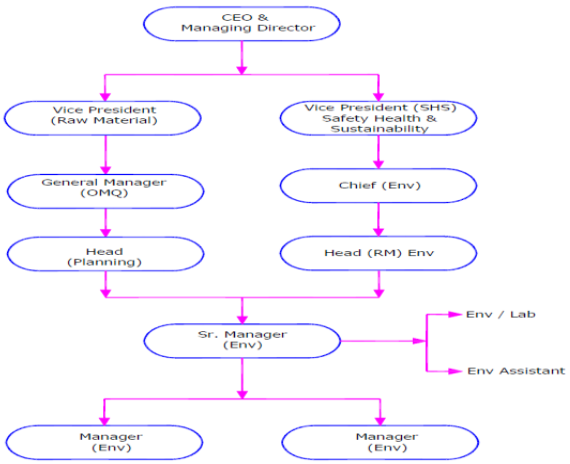
1. The Environment (Protection) Act, 1986.
2. Environmental Impact Assessment Notification, 14th Sep-2006.
3. Wildlife Protection Act 1972
4. Air (Prevention and Control of Pollution) Act, 1981
5. Water (Prevention and Control of Pollution) Act1974
6. Noise Pollution (Regulation and Control Act) 1990
7. Public Liability and Insurance Act 1991
8. The Forest (Conservation) Act. 1980
9. Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016.
10. E-waste Management Rules, 2022
11. Bio-medical Waste Management Rules, 2016
12. Battery Waste Management Rules, 2022

13. Plastic Waste Management Rules, 2022

The Environment Management Cell Consists of Following Personnels:

1. Shri. Awnish Kumar (Chief-Mine Planning & Projects)
2. Shri. Mukesh Kumar Prasad (Head-Environment Management)
3. Shri. Pinku Kumar (Head- Mine Planning)
4. Shri. Vivek Kumar Agarwal (Senior Area Manager- Planning)
5. Shri. Abinash Das (Area Manager- Environment)
6. Shri. Gaurav Dubey (Area Manager- Environment)
7. Shri. Roshan Singh (Area Manager- Horticulture)
8. Shri. Gaurav Mukherjee (Area Manager- Planning)
9. Shri. Vishal Kumar Singh (Area Manager- Planning)
10. Shri. Debasish Das (Senior Manager- Environment)
11. Shri. Sudhanshu Ranjan (Manager- Environment)
12. Shri. Shubham Singh (Manager-Environment)
13. Shri. Rishi Raj Kashyap (Manager-Environment)
14. Shri. Jarsaniya Harshkumar Dayabhai (Assistant Manager- Environment)
15. Shri. Ramendra Kumar (Officer- Environment)
16. Shri. Jhasketan Pradhan (Senior Environment Assistant)
17. Shri. Soumyak Palei (Environment Assistant)
18. Shri. Pragyan Prakash Mohanto (Environment Assistant)
19. Shri. Ganesh Karua (Environment Assistant)
20. Shri. Bharat Pan (Environment Assistant)
21. Shri. Gurucharan Laguri (Environment Assistant)
22. Shri. Gayatri Behera (Environment Chemist)

The detailed Organogram is as follows:



f: Tata Steel Limited

Awnish Kumar

Chief- Mine Planning & Projects (OMQ)

Annexure: 15

Expenditure for Environment Management at Vijay II Iron ore Mines (1st April 2025 to 30th September 2025)		
Sl. No.	**Description**	**Amount (Rs.)**
1.	Water Sprinkling to suppress dust	3896500.00
2.	Environmental Monitoring in core and buffer zone	540000.00
3.	Water Tax Payment	143392.00
4.	Plantation and Plantation maintenance	1051832.00
5.	Bolder wall development at buffer zone of mines and dry bolder check dam development and maintenance	1871392.00
6.	AMC charge of continuous Ambient Air quality monitoring station	909090.00
7.	Tarpaulin cost and its installation	165184.00
8.	Garland drains Development	368250.00
9.	De-siltation of check dam at buffer zone of mines	845722.00
10.	Occupational Health check-up (IME & PME)	81755.00
11.	Demand note payment of Site-Specific wildlife conservation plan, Fire management Plan, Chausingha Conservation plan and Forest Fire Plan in respect of Vijay II Iron Ore Mine of M/s Tata Steel Limited	1690001.00
12.	Fireline development around lease boundary	696232.00
	Total	**12259350.00**