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/ 187 / 112 / 2025
Date: 29.05.2025

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 October 2024 – March 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 **October 2024 – March 2025.**

We trust that the measures taken towards environmental safeguards comply with the stipulated environmental conditions. We look forward to your further guidance which shall certainly help us in our endeavor for further improve upon 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, Jharkhand State Pollution Control Board, T A Division (Ground Floor), Dhurwa, Ranchi – 834004.
: The Regional Officer, JSPCB, MB/12 New Housing Colony, Adityapur, Jamshedpur

TATA STEEL LIMITED
Mines Division Noamundi 833 217 India
Tel 91 9234301340 Fax 91 6596 290737
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

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/JH/MIN/224453/2021
Compliance ID	128562125
Compliance Number(For Tracking)	EC/M/COMPLIANCE/128562125/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	31-05-2025
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.	

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: October 24 to March 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, following protection measures has been taken: 1. 180 meter retaining wall developed during this period. 2. 431 meter Garland drain developed. 3. Settling cum percolation pond de-silted during this period.

		Photographs attached as **Annexure- 1.**
vii.	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	During the reporting period no topsoil was generated. However, previously generated topsoil is being stored at ear marked location as 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 1828 number of saplings have been planted in backfilled area, 1633 number of saplings in safety zone area, 2250 number of saplings have been planted in barren Zone, 125 number of saplings have been planted outside of lease area during FY'25. 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 & 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	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.

	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 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.	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. 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 5711 saplings have been plated in lease area including 1633 saplings in safety zone and 125 saplings have been planted outside lease area. 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 & 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. 95 m Gabion wall with chain link have been and 180m retaining wall developed in different location as per plan. 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 & 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&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-19937038/2024/1989 dated 25/12/2024 and its **validity is up to 17/08/2025**. 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.	82 Pre-placement medical examination and 232 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	<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 24.41 lakhs as per demand note of forest department during October 24 to March 24 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

	Environment and Forests and its Regional Office, Bhubaneswar.	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	As per Forest letter. –F.No.-125/2014- FC Government of India, MoEF & CC dated 4th July 2014, the Mining pit is only fenced as entire lease hold area within reserve forest.

	powered electric fencing shall be borne by the project proponent out of the project cost.	
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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All the labour working in mine are come from nearby area, so there is no need for colony, and mine is already active.
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.**

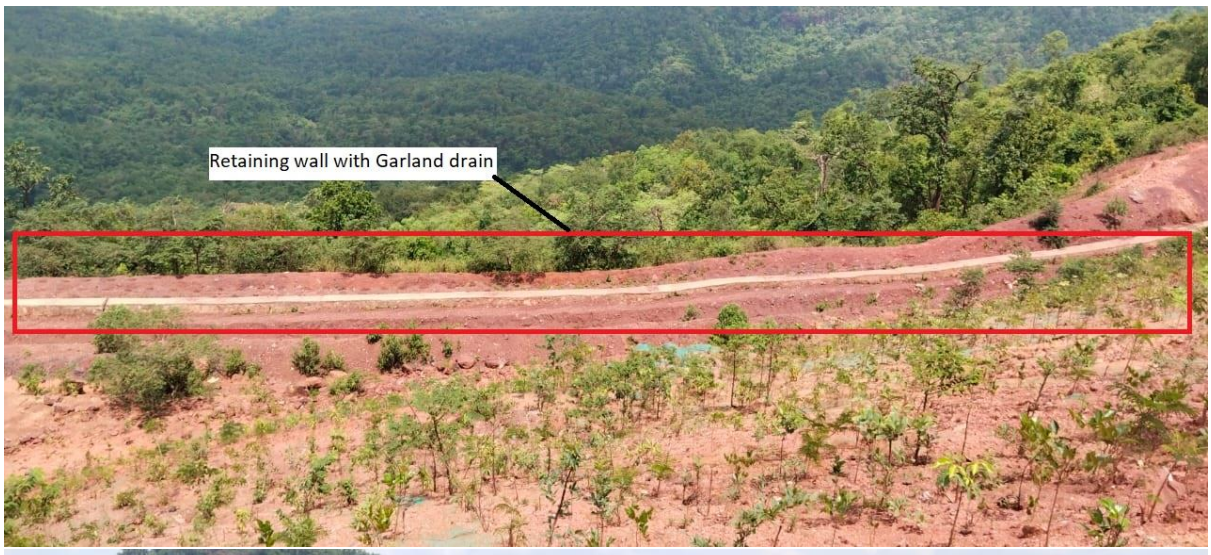
v.	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Water is sprinkled along the Mine haul road, loading, and unloading point and transfer points 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&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 82 IME and 232 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 & environment clearance conditions. The head wise expenditure incurred by us in environmental protection measures from 1st Oct. 24 to 31st Mar. 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 & 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 whom suggestion / representation has been received while processing the proposal.	Complied.
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

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400001906F

Report No.: ALPL/30102024/6-1 **Dated:** 30/10/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.:-**	ALPL/21102024/MON-86-AAQ-1/40 -1 & 2
Sampling by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	14, 21 October-2024
Test Started On:-	14, 21 October-2024	**Test Completed On:-**	15, 22 October-2024
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	LOCATION	Date of Sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
1	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	03/10/2024	67.1	28.4	14.1	31.6	0.657
		07/10/2024	64.7	21.8	11.9	27.4	0.563
		10/10/2024	57.3	18.6	9.7	21.3	0.526
		14/10/2024	63.9	23.1	12.6	24.1	0.591
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**
AAQ-2	Quarry-1 (Near Weigh Bridge)	03/10/2024	64.3	26.9	12.6	28.7	0.652
		07/10/2024	59.1	24.7	11.3	23.8	0.591
		10/10/2024	61.7	31.6	14.2	26.1	0.627
		14/10/2024	68.1	29.7	11.9	24.6	0.581
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. • BLQ= below limit of quantification , LOQ= limit of quantification. • Environmental condition – Satisfactory. • 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 NAAQMS Standards.

Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
https: // www.anaconlaboratories.com

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400001907F

Report No.: ALPL/30102024/6-2 **Dated:** 30/10/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.:-**	ALPL/21102024/MON-86-AAQ-1/40-3 & 4
Sampling by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	14, 21 October-2024
Test Started On:-	14, 21 October-2024	**Test Completed On:-**	15, 22 October-2024

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part 2)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	03/10/2024	52.7	18.4	8.4	16.9	BLQ (LOQ-0.5)
		07/10/2024	47.3	16.2	7.9	16.2	BLQ (LOQ-0.5)
		10/10/2024	56.1	23.8	11.6	19.3	BLQ (LOQ-0.5)
		14/10/2024	51.8	21.3	9.2	18.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**
AAQ-4	Near B.S. Mining Office	03/10/2024	57.2	23.8	12.6	24.1	BLQ (LOQ-0.5)
		07/10/2024	61.7	26.3	13.9	26.8	BLQ (LOQ-0.5)
		10/10/2024	54.9	19.1	9.3	17.6	BLQ (LOQ-0.5)
		14/10/2024	58.3	21.7	11.4	23.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80(24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. ● **BLQ= below limit of quantification , LOQ= limit of quantification. ● Environmental condition – Satisfactory. ● 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 NAAQMS Standards.

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.- TC129982400001908F

Report No.: ALPL/30102024/6-3 **Dated:** 30/10/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.:-**	ALPL/21102024/MON-86-AAQ-1/40-5 & 6 ALPL/28102024/MON-86-AAQ-1/8-5 & 6
Sampling by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	7, 14, 21,28 October-2024
Test Started On:-	7, 14, 21,28 October-2024	**Test Completed On:-**	8, 15, 22, 29 October-2024

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)
I	Discipline: Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	01/10/2024	54.3	17.9	8.4	16.8	BLQ (LOQ-0.5)
		04/10/2024	47.1	16.3	7.9	15.6	BLQ (LOQ-0.5)
		08/10/2024	56.8	23.6	11.4	21.9	BLQ (LOQ-0.5)
		11/10/2024	48.2	21.4	9.3	18.3	BLQ (LOQ-0.5)
		15/10/2024	52.7	19.3	8.6	17.4	BLQ (LOQ-0.5)
		18/10/2024	47.3	18.9	9.1	18.7	BLQ (LOQ-0.5)
		22/10/2024	56.1	23.8	11.6	24.1	BLQ (LOQ-0.5)
		25/10/2024	52.9	21.6	9.7	19.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**
AAQ-6	Baraiburu Village (Near Temple)	01/10/2024	47.3	16.2	11.4	18.3	BLQ (LOQ-0.5)
		04/10/2024	51.9	18.6	12.7	21.1	BLQ (LOQ-0.5)
		08/10/2024	48.2	19.2	9.3	17.6	BLQ (LOQ-0.5)
		11/10/2024	54.8	21.7	11.9	23.1	BLQ (LOQ-0.5)
		15/10/2024	56.3	23.6	12.4	19.3	BLQ (LOQ-0.5)
		18/10/2024	61.7	24.9	11.8	21.6	BLQ (LOQ-0.5)
		22/10/2024	54.3	19.2	9.3	16.1	BLQ (LOQ-0.5)
		25/10/2024	52.9	21.6	11.7	19.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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Remark: -All Results are within Limit as per NAAQMS Standards.

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.- TC129982400001909F

Report No.: ALPL/30102024/6-4 **Dated:** 30/10/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.:-**	ALPL/21102024/MON-86-AAQ-1/40-7 & 8 ALPL/28102024/MON-86-AAQ-1/8-7 & 8
Sampling by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	7, 14, 21,28 October-2024
Test Started On:-	7, 14, 21,28 October-2024	**Test Completed On:-**	8, 15, 22, 29 October-2024

Sr. No.	LOCATION	Date of Sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)
I	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village	01/10/2024	43.9	15.8	7.6	16.4	BLQ (LOQ-0.5)
		04/10/2024	48.2	16.9	9.1	18.3	BLQ (LOQ-0.5)
		08/10/2024	53.7	21.4	11.9	23.6	BLQ (LOQ-0.5)
		11/10/2024	47.3	18.2	9.7	19.2	BLQ (LOQ-0.5)
		15/10/2024	51.6	19.1	11.4	21.8	BLQ (LOQ-0.5)
		18/10/2024	49.2	21.6	12.1	23.7	BLQ (LOQ-0.5)
		22/10/2024	54.7	23.9	11.8	21.4	BLQ (LOQ-0.5)
		25/10/2024	52.9	19.3	9.6	18.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**
AAQ-8	Bokna Village	01/10/2024	57.2	26.1	12.4	24.9	BLQ (LOQ-0.5)
		04/10/2024	54.7	24.6	11.9	21.8	BLQ (LOQ-0.5)
		08/10/2024	62.8	26.3	12.7	26.1	BLQ (LOQ-0.5)
		11/10/2024	58.3	19.7	9.3	18.6	BLQ (LOQ-0.5)
		15/10/2024	61.7	21.4	11.6	23.9	BLQ (LOQ-0.5)
		18/10/2024	57.2	18.3	9.1	19.2	BLQ (LOQ-0.5)
		22/10/2024	62.8	24.7	13.9	26.1	BLQ (LOQ-0.5)
		25/10/2024	61.3	21.8	11.6	24.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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Remark: -All Results are within Limit as per NAAQMS Standards.

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.- TC129982400002265F

Report No.: ALPL/02122024/7-1 **Dated:** 02/12/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.:-**	ALPL/25112024/MON-91-AAQ-7/48-1 & 2 ALPL/30112024/MON-91-AAQ-7/16-1 & 2
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date**	11, 18, 25 Nov-2024 & 2 Dec-2024
Test Started On:-	11, 18, 25 Nov-2024 & 2 Dec-2024	**Test Completed On:-**	12, 19, 26 Nov-2024 & 2 Dec-2024
Sampling Procedure	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	LOCATION	Date of Sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	04/11/2024	58.3	21.6	12.9	27.4	BLQ (LOQ-0.5)
		07/11/2024	62.8	27.1	13.4	31.6	BLQ (LOQ-0.5)
		11/11/2024	54.9	16.4	9.3	23.8	BLQ (LOQ-0.5)
		14/11/2024	61.4	21.6	11.7	26.1	BLQ (LOQ-0.5)
		18/11/2024	57.3	18.3	12.9	24.7	BLQ (LOQ-0.5)
		21/11/2024	64.8	24.9	14.1	28.6	BLQ (LOQ-0.5)
		25/11/2024	68.2	26.1	13.7	27.4	BLQ (LOQ-0.5)
		28/11/2024	58.1	19.3	9.2	23.7	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)
AAQ-2	Quarry-1 (Near Weigh Bridge)	04/11/2024	62.7	24.9	11.6	27.1	BLQ (LOQ-0.5)
		07/11/2024	56.3	21.7	9.2	21.6	BLQ (LOQ-0.5)
		11/11/2024	61.9	28.4	12.8	24.7	BLQ (LOQ-0.5)
		14/11/2024	63.1	19.3	8.6	17.6	BLQ (LOQ-0.5)
		18/11/2024	57.6	24.9	11.3	23.4	BLQ (LOQ-0.5)
		21/11/2024	61.7	21.7	13.8	24.9	BLQ (LOQ-0.5)
		25/11/2024	58.1	16.4	9.7	18.2	BLQ (LOQ-0.5)
		28/11/2024	63.9	18.2	11.4	21.7	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)

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Remark: -All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

End of Report

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TC-12998

Test Report

ULR No.- TC129982400002266F

Report No.: ALPL/02122024/7-2 **Dated:** 02/12/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.:-**	ALPL/25112024/MON-91-AAQ-7/48-3 & 4 ALPL/30112024/MON-91-AAQ-7/16-3 & 4
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date**	11, 18, 25 Nov-2024 & 2 Dec-2024
Test Started On:-	11, 18, 25 Nov-2024 & 2 Dec-2024	**Test Completed On:-**	12, 19, 26 Nov-2024 & 2 Dec-2024

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)-Annex-L	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)
I	Discipline: Chemical		Group: Atmospheric Pollution		Material or Product tested : Ambient Air		
AAQ-3	Quarry-II Near Old Office	04/11/2024	53.9	17.6	9.2	17.1	BLQ (LOQ-0.5)
		07/11/2024	58.2	21.9	11.4	23.8	BLQ (LOQ-0.5)
		11/11/2024	48.3	16.7	8.3	18.2	BLQ (LOQ-0.5)
		14/11/2024	54.9	23.8	11.7	21.4	BLQ (LOQ-0.5)
		18/11/2024	52.8	18.3	7.6	16.1	BLQ (LOQ-0.5)
		21/11/2024	58.3	24.9	12.8	24.7	BLQ (LOQ-0.5)
		25/11/2024	61.8	21.6	9.2	18.3	BLQ (LOQ-0.5)
		28/11/2024	57.2	19.2	11.4	17.6	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)
AAQ-4	Near B.S. Mining Office	04/11/2024	58.3	24.9	13.8	21.7	BLQ (LOQ-0.5)
		07/11/2024	64.7	26.1	14.7	26.2	BLQ (LOQ-0.5)
		11/11/2024	51.8	19.7	11.3	18.6	BLQ (LOQ-0.5)
		14/11/2024	56.3	21.4	9.2	17.3	BLQ (LOQ-0.5)
		18/11/2024	61.7	23.6	11.4	21.9	BLQ (LOQ-0.5)
		21/11/2024	58.3	18.2	9.7	19.2	BLQ (LOQ-0.5)
		25/11/2024	62.8	21.4	12.6	23.8	BLQ (LOQ-0.5)
		28/11/2024	54.9	19.3	11.4	21.6	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80(24 hrs)	80 (24 hrs)	2 (8 hrs)

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Remark: -All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002267F

Report No.: ALPL/02122024/7-3 **Dated:** 02/12/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.:-**	ALPL/25112024/MON-91-AAQ-7/48-5 & 6 ALPL/30112024/MON-91-AAQ-7/16-5 & 6
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date**	11, 18, 25 Nov-2024 & 2 Dec-2024
Test Started On:-	11, 18, 25 Nov-2024 & 2 Dec-2024	**Test Completed On:-**	12, 19, 26 Nov-2024 & 2 Dec-2024

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)-Annex-L	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	05/11/2024	56.3	18.2	7.6	17.2	BLQ (LOQ-0.5)
		08/11/2024	52.9	16.4	6.8	16.3	BLQ (LOQ-0.5)
		12/11/2024	47.3	16.8	7.1	19.7	BLQ (LOQ-0.5)
		15/11/2024	53.8	17.3	9.2	17.1	BLQ (LOQ-0.5)
		19/11/2024	48.3	16.4	6.4	16.9	BLQ (LOQ-0.5)
		22/11/2024	56.2	21.8	11.4	23.6	BLQ (LOQ-0.5)
		26/11/2024	54.9	19.3	9.7	18.3	BLQ (LOQ-0.5)
		29/11/2024	47.3	16.4	8.4	16.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**
AAQ-6	Baraiburu Village (Near Temple)	05/11/2024	53.9	23.8	11.6	19.4	BLQ (LOQ-0.5)
		08/11/2024	49.3	21.6	9.3	18.7	BLQ (LOQ-0.5)
		12/11/2024	56.2	24.9	13.8	24.1	BLQ (LOQ-0.5)
		15/11/2024	61.8	26.3	12.4	23.8	BLQ (LOQ-0.5)
		19/11/2024	58.3	19.1	9.7	21.4	BLQ (LOQ-0.5)
		22/11/2024	62.1	23.8	11.9	24.7	BLQ (LOQ-0.5)
		26/11/2024	57.8	18.3	8.4	19.3	BLQ (LOQ-0.5)
		29/11/2024	61.4	21.6	9.2	21.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. • BLQ= below limit of quantification , LOQ= limit of quantification. • Environmental condition – Satisfactory. • 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 NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

End of Report

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TC-12998

Test Report

ULR No.- TC129982400002268F

Report No.: ALPL/02122024/7-4 **Dated:** 02/12/2024

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.:-**	ALPL/25112024/MON-91-AAQ-7/48-7 & 8 ALPL/30112024/MON-91-AAQ-7/16-7 & 8
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date**	11, 18, 25 Nov-2024 & 2 Dec-2024
Test Started On:-	11, 18, 25 Nov-2024 & 2 Dec-2024	**Test Completed On:-**	12, 19, 26 Nov-2024 & 2 Dec-2024

Sr. No.	LOCATION	Date of Sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40 (Part 50)-Annex-L	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)
1	Discipline: Chemical	Group: Atmospheric Pollution			Material or Product tested : Ambient Air		
AAQ-7	Gua Village	05/11/2024	57.2	16.8	11.4	17.3	BLQ (LOQ-0.5)
		08/11/2024	62.9	21.6	12.3	18.7	BLQ (LOQ-0.5)
		12/11/2024	54.7	18.3	9.6	16.4	BLQ (LOQ-0.5)
		15/11/2024	61.8	23.8	11.7	21.9	BLQ (LOQ-0.5)
		19/11/2024	67.3	21.4	12.4	23.6	BLQ (LOQ-0.5)
		22/11/2024	58.1	16.9	9.7	18.3	BLQ (LOQ-0.5)
		26/11/2024	56.3	18.3	8.4	16.9	BLQ (LOQ-0.5)
		29/11/2024	61.7	21.8	11.6	21.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**
AAQ-8	Bokna Village	05/11/2024	63.8	21.4	12.9	18.7	BLQ (LOQ-0.5)
		08/11/2024	58.1	18.3	9.2	16.4	BLQ (LOQ-0.5)
		12/11/2024	61.7	21.6	11.4	17.3	BLQ (LOQ-0.5)
		15/11/2024	62.8	23.4	11.8	21.6	BLQ (LOQ-0.5)
		19/11/2024	57.3	19.3	9.7	18.1	BLQ (LOQ-0.5)
		22/11/2024	61.4	21.8	11.3	21.8	BLQ (LOQ-0.5)
		26/11/2024	58.1	19.7	9.8	19.3	BLQ (LOQ-0.5)
		29/11/2024	57.3	19.2	11.4	18.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. ● BLQ= below limit of quantification , LOQ= limit of quantification. ● Environmental condition – Satisfactory. ● 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 NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

-End of Report-

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002572F

Report No.: ALPL/02012025/7-1 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/09122024/MON-65-AAQ-7/8-1
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/12/2024 to 09/12/2024)	**Sample Inward Date**	09/12/2024
Test Started On:-	10/12/2024	**Test Completed On:-**	12/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	02/12/2024	64.7	24.9	13.6	26.8	BLQ (LOQ-0.5)
		09/12/2024	61.8	19.3	8.7	17.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002573F
Report No.: ALPL/02012025/7-2 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/09122024/MON-65-AAQ-7/8-2
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/12/2024 to 09/12/2024)	**Sample Inward Date**	09/12/2024
Test Started On:-	10/12/2024	**Test Completed On:-**	12/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	02/12/2024	68.3	31.6	13.9	28.7	BLQ (LOQ-0.5)
		09/12/2024	61.7	27.3	12.4	24.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002574F
Report No.: ALPL/02012025/7-3 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/09122024/MON-65-AAQ-7/8-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/12/2024 to 09/12/2024)	**Sample Inward Date**	09/12/2024
Test Started On:-	10/12/2024	**Test Completed On:-**	12/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	02/12/2024	56.3	18.4	9.1	19.3	BLQ (LOQ-0.5)
		09/12/2024	62.7	23.8	11.3	21.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002575F
Report No.: ALPL/02012025/7-4 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/09122024/MON-65-AAQ-7/8-4
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/12/2024 to 09/12/2024)	**Sample Inward Date**	09/12/2024
Test Started On:-	10/12/2024	**Test Completed On:-**	12/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office	02/12/2024	56.2	21.7	11.9	23.8	BLQ (LOQ-0.5)
		09/12/2024	54.7	16.3	9.2	21.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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 sfall not be reproduced except in full without prior written approval of Anacon Labs. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002782F
Report No.: ALPL/02012025/7-5 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/16122024/MON-65-AAQ-7/15-1
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/12/2024 to 10/12/2024)	**Sample Inward Date**	16/12/2024
Test Started On:-	17/12/2024	**Test Completed On:-**	19/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	03/12/2024	58.3	23.6	8.4	16.9	BLQ (LOQ-0.5)
		10/12/2024	54.6	18.3	7.1	16.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

---End of Report---

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002783F
Report No.: ALPL/02012025/7-6 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/16122024/MON-65-AAQ-7/15-2
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/12/2024 to 10/12/2024)	**Sample Inward Date**	16/12/2024
Test Started On:-	17/12/2024	**Test Completed On:-**	19/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	03/12/2024	54.2	21.9	12.6	17.3	BLQ (LOQ-0.5)
		10/12/2024	51.7	19.2	11.4	18.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002784F
Report No.: ALPL/02012025/7-7 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962*
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/16122024/MON-65-AAQ-7/15-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/12/2024 to 10/12/2024)	**Sample Inward Date**	16/12/2024
Test Started On:-	17/12/2024	**Test Completed On:-**	19/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village	03/12/2024	58.3	17.2	12.6	21.4	BLQ (LOQ-0.5)
		10/12/2024	54.9	16.9	11.3	17.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gapway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002785F
Report No.: ALPL/02012025/7-8 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/16122024/MON-65-AAQ-7/15-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/12/2024 to 10/12/2024)	**Sample Inward Date**	16/12/2024
Test Started On:-	17/12/2024	**Test Completed On:-**	19/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	03/12/2024	67.2	26.8	13.7	24.9	BLQ (LOQ-0.5)
		10/12/2024	64.7	24.1	12.8	21.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gapway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002786F
Report No.: ALPL/02012025/7-9 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-1
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/12/2024 to 19/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	17/12/2024	57.1	18.4	12.9	18.7	BLQ (LOQ-0.5)
		19/12/2024	61.7	21.6	11.4	22.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

---End of Report---

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002787F
Report No.: ALPL/02012025/7-10 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-2
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/12/2024 to 19/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	17/12/2024	57.3	24.9	9.3	21.6	BLQ (LOQ-0.5)
		19/12/2024	63.8	28.4	11.7	26.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gatway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002788F
Report No.: ALPL/02012025/7-11 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/12/2024 to 19/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	17/12/2024	58.2	21.3	9.7	18.6	BLQ (LOQ-0.5)
		19/12/2024	61.8	24.9	12.8	23.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982400002789F
Report No.: ALPL/02012025/7-12 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/12/2024 to 19/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested** : Ambient Air		
AAQ-4	Near B.S. Mining Office	17/12/2024	64.8	27.6	13.1	27.3	BLQ (LOQ-0.5)
		19/12/2024	68.3	31.9	14.7	32.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002790F
Report No.: ALPL/02012025/7-13 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-4
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/12/2024 to 20/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	13/12/2024	58.2	21.9	11.6	23.1	BLQ (LOQ-0.5)
		20/12/2024	54.8	16.2	9.3	18.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gaway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002791F
Report No.: ALPL/02012025/7-14 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-5
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/12/2024 to 20/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	13/12/2024	47.3	16.3	9.2	16.4	BLQ (LOQ-0.5)
		20/12/2024	53.8	21.7	12.9	18.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002792F
Report No.: ALPL/02012025/7-15 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-6
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/12/2024 to 20/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sarnpling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested** : Ambient Air		
AAQ-7	Gua Village	13/12/2024	61.2	23.8	12.7	24.6	BLQ (LOQ-0.5)
		20/12/2024	57.1	21.3	9.3	18.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002793F
Report No.: ALPL/02012025/7-16 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/23122024/MON-65-AAQ-7/15-7
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/12/2024 to 20/12/2024)	**Sample Inward Date**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	13/12/2024	58.3	19.3	9.2	18.7	BLQ (LOQ-0.5)
		20/12/2024	61.8	21.6	11.4	23.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gerway
Deputy Quality Manager

---End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002794F
Report No.: ALPL/02012025/7-17 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/31122024/MON-65-AAQ-7/9-1
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 27/12/2024 to 30/12/2024)	**Sample Inward Date**	31/12/2024
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	27/12/2024	52.1	18.7	8.4	16.2	BLQ (LOQ-0.5)
		30/12/2024	57.3	21.9	11.6	23.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002795F
Report No.: ALPL/02012025/7-18 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/31122024/MON-65-AAQ-7/9-2
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 27/12/2024 to 30/12/2024)	**Sample Inward Date**	31/12/2024
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	27/12/2024	54.2	16.1	11.6	21.8	BLQ (LOQ-0.5)
		30/12/2024	61.9	23.4	12.7	23.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gerway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002796F
Report No.: ALPL/02012025/7-19 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/31122024/MON-65-AAQ-7/9-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 27/12/2024 to 30/12/2024)	**Sample Inward Date**	31/12/2024
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village	27/12/2024	62.8	24.9	11.6	21.3	BLQ (LOQ-0.5)
		30/12/2024	58.3	19.2	8.4	17.2	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002797F
Report No.: ALPL/02012025/7-20 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/31122024/MON-65-AAQ-7/9-4
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sarnpled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 27/12/2024 to 30/12/2024)	**Sample Inward Date**	31/12/2024
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	27/12/2024	57.2	16.9	8.1	16.8	BLQ (LOQ-0.5)
		30/12/2024	62.7	21.7	11.7	23.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002798F
Report No.: ALPL/02012025/7-21 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/02012025/MON-65-AAQ-7/9-1
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 31/12/2024)	**Sample Inward Date**	02/01/2025
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	31/12/2024	56.3	16.9	9.3	17.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gatway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002799F
Report No.: ALPL/02012025/7-22 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/02012025/MON-65-AAQ-7/9-2
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 31/12/2024)	**Sample Inward Date**	02/01/2025
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	31/12/2024	54.1	19.3	8.4	18.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

---End of Report---

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002800F

Report No.: ALPL/02012025/7-23 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/02012025/MON-65-AAQ-7/9-3
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 31/12/2024)	**Sample Inward Date**	02/01/2025
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	31/12/2024	54.3	19.2	11.4	21.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwey
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002801F
Report No.: ALPL/02012025/7-24 dated:02/01/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/02012025/MON-65-AAQ-7/9-4
		Reference to sampling plan	ANtd/7.3/Mon-02/December-2024/5
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 31/12/2024)	**Sample Inward Date**	02/01/2025
Test Started On:-	02/01/2025	**Test Completed On:-**	02/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office	31/12/2024	59.1	28.4	9.3	21.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002582F

Report No.: ALPL/02012025/7-34 **Dated:** 02/01/2025

Name and Address of Industry:-	**Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality** (Core Zone)	**Sample Inward No.:-**	ALPL/23122024/MON-65-AAQ-7/15-9
Sampled by	**Anacon Representative** Mr. Biplab Giri	**Sample Inward Date:-**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	**LOCATION**	**Date of Sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-9	Near HMV Gate	20/12/2024	63.9	24.6	12.1	23.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. ● **BLQ= below limit of quantification , LOQ= limit of quantification. ● Environmental condition – Satisfactory. ● 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 NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.- TC129982400002583F

Report No.: ALPL/02012025/7-35 **Dated:** 02/01/2025

Name and Address of Industry:-	**Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality** (Core Zone)	**Sample Inward No.:-**	ALPL/23122024/MON-65-AAQ-7/15-10
Sampled by	**Anacon Representative** Mr. Biplab Giri	**Sample Inward Date:-**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	**LOCATION**	**Date of Sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-10	Bokna Plot-Near Loading Point	20/12/2024	71.3	32.6	11.3	27.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. ● **BLQ= below limit of quantification , LOQ= limit of quantification. ● Environmental condition – Satisfactory. ● 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 NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002584F
Report No.: ALPL/02012025/7-36 **Dated:** 02/01/2025

Name and Address of Industry:-	**Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality** (Core Zone)	**Sample Inward No.:-**	ALPL/23122024/MON-65-AAQ-7/15-11
Sampled by	**Anacon Representative** Mr. Biplab Giri	**Sample Inward Date:-**	23/12/2024
Test Started On:-	24/12/2024	**Test Completed On:-**	26/12/2024
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	**LOCATION**	**Date of Sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-11	Bokna Plot- Near Weighbridge	20/12/2024	74.9	32.8	14.3	29.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. ● **BLQ= below limit of quantification , LOQ= limit of quantification. ● Environmental condition – Satisfactory. ● 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 NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002585F
Test Report No.: ALPL/02012025/7-15

Dated: 02/01/2025

Issued To: **Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Sample Inward No.:** ALPL/25122024/MON-63-NQ-7/7-7 **Inward Date:** 25/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 20/12/2024 to 21/12/2024 **Time of sampling & duration :** 12:50 pm & 24 hrs **Sampling location :** **Near Bokna Plot** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/December-2024/5 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Noise		
7.	Near Bokna Plot	IS 9989	67.2	56.1	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000563F
Report No.: ALPL/03022025/7-1 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-1
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No. 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	02/01/2025	62.9	23.6	12.4	27.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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 Anscon Labs. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC1299825000000564F
Report No.: ALPL/03022025/7-2 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-2
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	02/01/2025	72.6	32.8	14.7	26.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000565F
Report No.: ALPL/03022025/7-3 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-3
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	02/01/2025	57.2	16.9	8.4	17.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000566F
Report No.: ALPL/03022025/7-4 dated:03/02/2025

Name and Address of Industry:-	Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	W. O. No.	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/06012025/MON-12-AAQ-6/12-4
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 02/01/2025)	Sample Inward Date	06/01/2025
Test Started On:-	07/01/2025	Test Completed On:-	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	Discipline: Chemical		Group: Atmospheric Pollution		Material or Product tested : Ambient Air		
AAQ-4	Near B.S. Mining Office	02/01/2025	54.7	18.3	12.7	21.8	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000567F
Report No.: ALPL/03022025/7-5 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024

Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-5
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/01/2025 to 04/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	03/01/2025	61.9	24.7	9.2	18.3	BLQ (LOQ-0.5)
		04/01/2025	56.3	16.2	8.4	17.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwar Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.-TC12998250000000568F
Report No.: ALPL/03022025/7-6 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-6
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/01/2025 to 04/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	03/01/2025	53.6	18.2	11.6	21.9	BLQ (LOQ-0.5)
		04/01/2025	57.3	21.6	12.9	23.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

---End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000569F
Report No.: ALPL/03022025/7-7 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-7
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/01/2025 to 04/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested** : Ambient Air		
AAQ-7	Gua Village	03/01/2025	58.3	18.1	11.7	23.9	BLQ (LOQ-0.5)
		04/01/2025	52.7	16.4	8.4	17.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC12998250000000570F

Report No.: ALPL/03022025/7-8 dated:03/02/2025

Name and Address of Industry:-	Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/06012025/MON-12-AAQ-6/12-8
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/01/2025 to 04/01/2025)	**Sample Inward Date**	06/01/2025
Test Started On:-	07/01/2025	**Test Completed On:-**	10/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	03/01/2025	62.7	24.6	12.8	26.1	BLQ (LOQ-0.5)
		04/01/2025	57.2	19.3	11.6	24.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwey Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000571F
Report No.: ALPL/03022025/7-9 dated:03/02/2025 **Page 1 of 1**

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.**	4700126596/962
			. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-1	
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1	
		Transport Condition	Carry in ice box at 4 °C	
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/01/2025 to 08/01/2025)	**Sample Inward Date**	13/01/2025	
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025	
Sampling Method	ANtd/7.2/MON-01			

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	06/01/2025	68.3	28.1	13.8	27.9	BLQ (LOQ-0.5)
		08/01/2025	72.6	32.8	14.6	28.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Ganvay Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000572F

Report No.: ALPL/03022025/7-10 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-2
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/01/2025 to 08/01/2025)	**Sample Inward Date**	13/01/2025
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025
Sarnpling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³.**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	06/01/2025	58.1	23.6	11.3	27.9	BLQ (LOQ-0.5)
		08/01/2025	67.3	26.1	12.9	31.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000573F

Report No.: ALPL/03022025/7-11 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.**	4700126596/962
			W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-3	
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1	
		Transport Condition	Carry in ice box at 4 °C	
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/01/2025 to 08/01/2025)	**Sample Inward Date**	13/01/2025	
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025	
Sampling Method	ANtd/7.2/MON-01			

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO), mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	06/01/2025	57.1	23.6	11.4	17.9	BLQ (LOQ-0.5)
		08/01/2025	52.8	18.3	9.3	16.4	BLQ (LOQ-0.5).
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000574F
Report No.: ALPL/03022025/7-12 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-4
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/01/2025 to 08/01/2025)	**Sample Inward Date**	13/01/2025
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office	06/01/2025	67.1	28.4	14.6	27.6	BLQ (LOQ-0.5)
		08/01/2025	71.3	32.8	16.1	32.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000575F

Report No.: ALPL/03022025/7-13 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-5
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 09/01/2025 to 11/01/2025)	**Sample Inward Date**	13/01/2025
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	09/01/2025	52.6	16.4	9.1	21.8	BLQ (LOQ-0.5)
		11/01/2025	57.3	19.1	11.7	23.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000576F

Report No.: ALPL/03022025/7-14 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-6
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 09/01/2025 to 11/01/2025)	**Sample Inward Date**	13/01/2025
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	09/01/2025	46.1	17.2	11.3	18.6	BLQ (LOQ-0.5)
		11/01/2025	48.6	18.9	12.4	21.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000577F
Report No.: ALPL/03022025/7-15 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-7
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 09/01/2025 to 11/01/2025)	**Sample Inward Date**	13/01/2025
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village	09/01/2025	54.9	18.7	11.3	16.9	BLQ (LOQ-0.5)
		11/01/2025	48.3	16.2	8.7	15.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Sneha Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000578F
Report No.: ALPL/03022025/7-16 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/13012025/MON-32-AAQ-6/16-8
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 09/01/2025 to 11/01/2025)	**Sample Inward Date**	13/01/2025
Test Started On:-	14/01/2025	**Test Completed On:-**	17/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	09/01/2025	62.8	23.9	12.8	24.6	BLQ (LOQ-0.5)
		11/01/2025	57.1	18.6	9.7	21.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC12998250000000579F

Report No.: ALPL/03022025/7-17 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-1
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	17/01/2025	67.2	31.6	13.9	27.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC1299825000000580F
Report No.: ALPL/03022025/7-18 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-2
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	17/01/2025	64.9	23.8	12.6	21.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000581F
Report No.: ALPL/03022025/7-19 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-3
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	17/01/2025	57.1	18.6	12.9	23.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwar
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000582F

Report No.: ALPL/03022025/7-20 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-4
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office	17/01/2025	64.2	32.8	13.6	27.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC12998250000000583F

Report No.: ALPL/03022025/7-21 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-5
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 18/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	18/01/2025	48.3	16.9	11.4	21.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000584F

Report No.: ALPL/03022025/7-22 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-6
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 18/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	18/01/2025	54.2	16.9	11.4	23.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000585F

Report No.: ALPL/03022025/7-23 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-7
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 18/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village	18/01/2025	56.1	18.4	12.6	23.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000586F

Report No.: ALPL/03022025/7-24 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/20012025/MON-36-AAQ-6/8-8
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 18/01/2025)	**Sample Inward Date**	20/01/2025
Test Started On:-	21/01/2025	**Test Completed On:-**	24/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	18/01/2025	57.1	24.8	13.6	26.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Gatway Deputy Quality Manager

----End of Report----

Anacon Laboratories

ANACON

TC-12998

Test Report

ULR No.-TC12998250000000587F

Report No.: ALPL/03022025/7-25 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/27012025/MON-4-AAQ-6/4-1
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/01/2025)	**Sample Inward Date**	27/01/2025
Test Started On:-	28/01/2025	**Test Completed On:-**	31/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate	20/01/2025	67.2	28.1	14.9	31.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000588F
Report No.: ALPL/03022025/7-26 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/27012025/MON-4-AAQ-6/4-2
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/01/2025)	**Sample Inward Date**	27/01/2025
Test Started On:-	28/01/2025	**Test Completed On:-**	31/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge)	20/01/2025	73.8	31.6	12.9	27.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
https: // www.anaconlaboratories.com

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TC-12998

Test Report

ULR No.-TC12998250000000589F
Report No.: ALPL/03022025/7-27 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/27012025/MON-4-AAQ-6/4-3
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/01/2025)	**Sample Inward Date**	27/01/2025
Test Started On:-	28/01/2025	**Test Completed On:-**	31/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office	20/01/2025	54.2	17.1	9.3	18.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000590F
Report No.: ALPL/03022025/7-28 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Core Zone)**	**Sample Inward No.**	ALPL/27012025/MON-4-AAQ-6/4-4
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/01/2025)	**Sample Inward Date**	27/01/2025
Test Started On:-	28/01/2025	**Test Completed On:-**	31/01/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office	20/01/2025	57.1	19.6	13.8	24.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Shefali Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
https: // www.anaconlaboratories.com

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TC-12998

Test Report

ULR No.-TC12998250000000591F

Report No.: ALPL/03022025/7-29 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/30012025/MON-4-AAQ-6/4-1
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 29/01/2025)	**Sample Inward Date**	30/01/2025
Test Started On:-	31/01/2025	**Test Completed On:-**	03/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School)	29/01/2025	47.3	15.7	9.3	18.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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ANACON

TC-12998

Test Report

ULR No.-TC12998250000000592F

Report No.: ALPL/03022025/7-30 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/30012025/MON-4-AAQ-6/4-2
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 29/01/2025)	**Sample Inward Date**	30/01/2025
Test Started On:-	31/01/2025	**Test Completed On:-**	03/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple)	29/01/2025	52.7	17.3	12.6	18.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

---End of Report---

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000593F
Report No.: ALPL/03022025/7-31 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/30012025/MON-4-AAQ-6/4-3
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 29/01/2025)	**Sample Inward Date**	30/01/2025
Test Started On:-	31/01/2025	**Test Completed On:-**	03/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village	29/01/2025	52.7	16.9	13.8	21.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kalhane
Technical Manager

Authorized Signatory
Chinmay Garwar
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC12998250000000594F

Report No.: ALPL/03022025/7-32 dated:03/02/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air Quality (Buffer Zone)**	**Sample Inward No.**	ALPL/30012025/MON-4-AAQ-6/4-4
		Reference to sampling plan	ANtd/7.3/Mon-02/January-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 29/01/2025)	**Sample Inward Date**	30/01/2025
Test Started On:-	31/01/2025	**Test Completed On:-**	03/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village	29/01/2025	58.1	28.4	12.9	23.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

ANACON LABORATORIES PVT. LTD. ORIGINAL COPY

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TC-12998

Test Report

ULR No.-TC129982500001102F
Report No.: ALPL/03032025/7-1 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-1 & 2
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 04/02/2025 to 08/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	04/02/2025	64.8	23.9	12.6	17.4	BLQ (LOQ-0.5)
		07/02/2025	71.6	28.1	13.8	24.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

ANACON LABORATORIES PVT. LTD. ORIGINAL COPY

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001103F
Report No.: ALPL/03032025/7-2 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-3 & 4
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 04/02/2025 to 08/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	04/02/2025	73.6	31.6	12.8	27.9	BLQ (LOQ-0.5)
		07/02/2025	64.1	28.4	11.3	23.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmey Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.-TC129982500001104F
Report No.: ALPL/03032025/7-3 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-5 & 6
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 04/02/2025 to 08/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office (Core Zone)	04/02/2025	56.1	17.3	9.3	18.4	BLQ (LOQ-0.5)
		07/02/2025	51.7	16.9	7.6	17.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001105F
Report No.: ALPL/03032025/7-4 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-7 & 8
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 04/02/2025 to 08/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	04/02/2025	61.9	23.6	11.4	18.3	BLQ (LOQ-0.5)
		07/02/2025	57.3	18.2	9.1	17.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001106F
Report No.: ALPL/03032025/7-5 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-9 & 10
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/02/2025 to 09/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School) (Buffer Zone)	05/02/2025	47.3	21.6	8.4	17.2	BLQ (LOQ-0.5)
		08/02/2025	52.9	23.8	9.1	21.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Katiane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001107F
Report No.: ALPL/03032025/7-6 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-11 & 12
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/02/2025 to 09/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple) (Buffer Zone)	05/02/2025	56.1	23.8	12.9	24.7	BLQ (LOQ-0.5)
		08/02/2025	61.7	26.1	13.8	27.2	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001108F
Report No.: ALPL/03032025/7-7 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-13 & 14
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/02/2025 to 09/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village (Buffer Zone)	05/02/2025	61.9	23.8	12.6	17.9	BLQ (LOQ-0.5)
		08/02/2025	58.3	18.3	9.7	16.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwar
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001109F
Report No.: ALPL/03032025/7-8 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/170225/-ENV-1/20-15 & 16
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/02/2025 to 09/02/2025)	**Sample Inward Date**	17/02/2025
Test Started On:-	18/02/2025	**Test Completed On:-**	21/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village (Buffer Zone)	05/02/2025	64.9	24.1	11.7	23.6	BLQ (LOQ-0.5)
		08/02/2025	57.3	21.4	8.4	17.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
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TC-12998

Test Report

ULR No.-TC129982500001110F
Report No.: ALPL/03032025/7-9 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190225/-ENV-6/16-1 & 2
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/02/2025 to 14/02/2025)	**Sample Inward Date**	19/02/2025
Test Started On:-	20/02/2025	**Test Completed On:-**	24/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	10/02/2025	71.3	31.6	14.1	28.6	BLQ (LOQ-0.5)
		13/02/2025	67.1	27.9	11.6	24.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathare
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001111F
Report No.: ALPL/03032025/7-10 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190225/-ENV-6/16-3 & 4
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/02/2025 to 14/02/2025)	**Sample Inward Date**	19/02/2025
Test Started On:-	20/02/2025	**Test Completed On:-**	24/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	10/02/2025	67.3	24.8	13.9	31.6	BLQ (LOQ-0.5)
		13/02/2025	72.4	26.1	14.6	28.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001112F
Report No.: ALPL/03032025/7-11 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190225/-ENV-6/16-5 & 6
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/02/2025 to 14/02/2025)	**Sample Inward Date**	19/02/2025
Test Started On:-	20/02/2025	**Test Completed On:-**	24/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office (Core Zone)	10/02/2025	56.3	21.7	9.3	16.8	BLQ (LOQ-0.5)
		13/02/2025	61.7	23.6	11.4	17.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001113F
Report No.: ALPL/03032025/7-12 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190225/-ENV-6/16-7 & 8
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/02/2025 to 14/02/2025)	**Sample Inward Date**	19/02/2025
Test Started On:-	20/02/2025	**Test Completed On:-**	24/02/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	10/02/2025	51.6	23.8	11.7	23.7	BLQ (LOQ-0.5)
		13/02/2025	56.2	24.9	12.8	24.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.-TC129982500001114F
Report No.: ALPL/03032025/7-13 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-1 & 2
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/02/2025 to 22/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	17/02/2025	64.9	23.8	13.7	28.1	BLQ (LOQ-0.5)
		21/02/2025	67.1	28.1	14.6	31.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001115F
Report No.: ALPL/03032025/7-14 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-3 & 4
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/02/2025 to 22/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	17/02/2025	74.1	32.8	14.6	28.9	BLQ (LOQ-0.5)
		21/02/2025	64.3	23.9	12.1	24.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001116F
Report No.: ALPL/03032025/7-15 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-5 & 6
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/02/2025 to 22/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office (Core Zone)	17/02/2025	53.7	16.8	8.4	17.3	BLQ (LOQ-0.5)
		21/02/2025	56.2	17.4	9.1	18.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001117F
Report No.: ALPL/03032025/7-16 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-7 & 8
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/02/2025 to 22/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	17/02/2025	68.2	23.9	14.2	28.6	BLQ (LOQ-0.5)
		21/02/2025	72.1	27.3	16.1	31.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.-TC129982500001118F
Report No.: ALPL/03032025/7-17 dated:03/03/2025

Name and Address of Industry:-	Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	W. O. No.	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	Ambient Air	Sample Inward No.	ALPL/270225/-ENV-1/34-9 & 10
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 19/02/2025 to 23/02/2025)	Sample Inward Date	27/02/2025
Test Started On:-	28/02/2025	Test Completed On:-	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	Discipline: Chemical		Group: Atmospheric Pollution		Material or Product tested : Ambient Air		
AAQ-5	Baihatu Village (Near School) (Buffer Zone)	19/02/2025	51.6	16.2	8.4	17.9	BLQ (LOQ-0.5)
		22/02/2025	46.3	15.8	7.9	16.2	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kalhane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001119F
Report No.: ALPL/03032025/7-18 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-11 & 12
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 19/02/2025 to 23/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple) (Buffer Zone)	19/02/2025	54.9	18.4	11.7	23.8	BLQ (LOQ-0.5)
		22/02/2025	51.2	16.9	9.4	18.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gatway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001120F
Report No.: ALPL/03032025/7-19 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-13 & 14
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 19/02/2025 to 23/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village (Buffer Zone)	19/02/2025	53.6	17.2	12.6	23.8	BLQ (LOQ-0.5)
		22/02/2025	56.1	23.4	14.1	26.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gadway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001121F
Report No.: ALPL/03032025/7-20 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/270225/-ENV-1/34-15 & 16
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 19/02/2025 to 23/02/2025)	**Sample Inward Date**	27/02/2025
Test Started On:-	28/02/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village (Buffer Zone)	19/02/2025	62.7	31.6	14.7	28.1	BLQ (LOQ-0.5)
		22/02/2025	67.3	29.1	13.6	26.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001122F
Report No.: ALPL/03032025/7-21 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/030325/-ENV-7/16-1
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/02/2025 to 26/02/2025)	**Sample Inward Date**	03/03/2025
Test Started On:-	03/03/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	25/02/2025	62.8	23.9	11.6	27.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001123F
Report No.: ALPL/03032025/7-22 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/030325/-ENV-7/16-3
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/02/2025 to 26/02/2025)	**Sample Inward Date**	03/03/2025
Test Started On:-	03/03/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	25/02/2025	68.1	29.7	13.8	21.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001124F
Report No.: ALPL/03032025/7-23 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/030325/-ENV-7/16-5
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/02/2025 to 26/02/2025)	**Sample Inward Date**	03/03/2025
Test Started On:-	03/03/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Quarry-II Near Old Office (Core Zone)	25/02/2025	56.3	17.2	9.1	18.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001125F
Report No.: ALPL/03032025/7-24 dated:03/03/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/030325/-ENV-7/16-7
		Reference to sampling plan	ANtd/7.3/Mon-02/February-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/02/2025 to 26/02/2025)	**Sample Inward Date**	03/03/2025
Test Started On:-	03/03/2025	**Test Completed On:-**	03/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	25/02/2025	58.2	17.9	11.3	23.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001521F
Report No.: ALPL/02042025/7-1 dated:02/04/2025

Name and Address of Industry:-	Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	W. O. No.	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	Ambient Air	Sample Inward No.	ALPL/130325/ENV-1/11-1 & 2
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 03/03/2025 to 04/03/2025 & 07/03/2025 to 08/03/2025)	Sample Inward Date	13/03/2025
Test Started On:-	13/03/2025	Test Completed On:-	17/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	Discipline: Chemical		Group: Atmospheric Pollution		Material or Product tested : Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	03.03.2025	56.1	24.3	13.7	21.9	BLQ (LOQ-0.5)
		07.03.2025	61.7	26.8	14.6	27.1	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001522F

Report No.: ALPL/02042025/7-2 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/130325/ENV-1/11-7 & 8
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/03/2025 to 06/03/2025 & 07/03/2025 to 08/03/2025)	**Sample Inward Date**	13/03/2025
Test Started On:-	13/03/2025	**Test Completed On:-**	17/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	05.03.2025	76.3	32.8	14.9	28.6	BLQ (LOQ-0.5)
		07.03.2025	64.8	27.6	12.1	24.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001523F
Report No.: ALPL/02042025/7-3 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/130325/ENV-1/11-3 & 4
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/03/2025 to 06/03/2025 & 07/03/2025 to 08/03/2025)	**Sample Inward Date**	13/03/2025
Test Started On:-	13/03/2025	**Test Completed On:-**	17/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested** : Ambient Air		
AAQ-3	Near ISS Parking	05.03.2025	53.9	18.4	7.6	17.2	BLQ (LOQ-0.5)
		07.03.2025	56.1	21.6	11.4	23.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.-TC129982500001524F

Report No.: ALPL/02042025/7-4 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/130325/ENV-1/11-5 & 6
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 05/03/2025 to 06/03/2025 & 07/03/2025 to 08/03/2025)	**Sample Inward Date**	13/03/2025
Test Started On:-	13/03/2025	**Test Completed On:-**	17/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each.	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	05.03.2025	58.2	24.7	13.9	21.7	BLQ (LOQ-0.5)
		07.03.2025	62.8	26.4	14.1	24.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.-TC129982500001525F
Report No.: ALPL/02042025/7-5 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/130325/ENV-1/11-9 ALPL/190325/-ENV-4/16-9
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/03/2025 to 07/03/2025 & 08/03/2025 to 09/03/2025)	**Sample Inward Date**	19/03/2025
Test Started On:-	19/03/2025	**Test Completed On:-**	22/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School) (Buffer Zone)	06.03.2025	48.3	18.3	9.1	16.8	BLQ (LOQ-0.5)
		08.03.2025	52.6	21.6	11.4	19.2	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001526F
Report No.: ALPL/02042025/7-6 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190325/-ENV-4/16-10
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/03/2025 to 07/03/2025 & 08/03/2025 to 09/03/2025)	**Sample Inward Date**	19/03/2025
Test Started On:-	19/03/2025	**Test Completed On:-**	22/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple) (Buffer Zone)	06.03.2025	54.9	21.6	11.4	23.8	BLQ (LOQ-0.5)
		08.03.2025	48.3	16.9	9.2	17.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kalhane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001527F
Report No.: ALPL/02042025/7-7 dated 02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/130325/ENV-1/11-10 ALPL/190325/ENV-4/16-11
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/03/2025 to 07/03/2025 & 08/03/2025 to 09/03/2025)	**Sample Inward Date**	13/03/2025 & 19/03/2025
Test Started On:-	13/03/2025 & 19/03/2025	**Test Completed On:-**	17/03/2025 & 20/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village (Buffer Zone)	06.03.2025	57.3	21.7	13.9	18.4	BLQ (LOQ-0.5)
		08.03.2025	61.7	23.8	14.1	21.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001528F
Report No.: ALPL/02042025/7-8 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/130325/ENV-1/11-10 ALPL/190325/-ENV-4/16-12
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 06/03/2025 to 07/03/2025 & 08/03/2025 to 09/03/2025)	**Sample Inward Date**	13/03/2025 & 19/03/2025
Test Started On:-	13/03/2025 & 19/03/2025	**Test Completed On:-**	17/03/2025 & 20/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village (Buffer Zone)	06.03.2025	67.2	26.3	12.9	24.7	BLQ (LOQ-0.5)
		08.03.2025	64.7	23.8	11.3	21.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

---End of Report---

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TC-12998

Test Report

ULR No.-TC129982500001529F
Report No.: ALPL/02042025/7-9 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190325/-ENV-4/16-1 & 2
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/03/2025 to 11/03/2025 & 13/03/2025 to 14/03/2025)	**Sample Inward Date**	19/03/2025
Test Started On:-	19/03/2025	**Test Completed On:-**	20/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	10.03.2025	58.3	27.1	13.4	28.6	BLQ (LOQ-0.5)
		13.03.2025	62.9	31.6	12.9	24.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001530F
Report No.: ALPL/02042025/7-10 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.**	4700126596/962
			. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190325/-ENV-4/16-5 & 6	
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1	
		Transport Condition	Carry in ice box at 4 °C	
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/03/2025 to 11/03/2025 & 13/03/2025 to 14/03/2025)	**Sample Inward Date**	19/03/2025	
Test Started On:-	19/03/2025	**Test Completed On:-**	20/03/2025	
Sampling Method	ANtd/7.2/MON-01			

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	10.03.2025	61.9	26.3	11.4	26.1	BLQ (LOQ-0.5)
		13.03.2025	57.3	19.1	12.6	24.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001531F
Report No.: ALPL/02042025/7-11 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190325/-ENV-4/16-3 & 4
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/03/2025 to 11/03/2025 & 13/03/2025 to 14/03/2025)	**Sample Inward Date**	19/03/2025
Test Started On:-	19/03/2025	**Test Completed On:-**	20/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Near ISS Parking	10.03.2025	47.3	16.7	9.3	18.4	BLQ (LOQ-0.5)
		13.03.2025	58.7	23.4	12.9	21.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001532F
Report No.: ALPL/02042025/7-12 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.**	4700126596/962
			. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/190325/-ENV-4/16-7 & 8	
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1	
		Transport Condition	Carry in ice box at 4 °C	
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 10/03/2025 to 11/03/2025 & 13/03/2025 to 14/03/2025)	**Sample Inward Date**	19/03/2025	
Test Started On:-	19/03/2025	**Test Completed On:-**	20/03/2025	
Sampling Method	ANtd/7.2/MON-01			

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	10.03.2025	57.3	19.3	11.6	18.3	BLQ (LOQ-0.5)
		13.03.2025	61.7	21.4	12.9	19.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

---End of Report---

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001533F

Report No.: ALPL/02042025/7-13 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-1 & 2
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/03/2025 to 18/03/2025 & 20/03/2025 to 21/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	17.03.2025	56.1	23.7	9.2	17.4	BLQ (LOQ-0.5)
		20.03.2025	61.7	24.9	11.6	21.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001534F
Report No.: ALPL/02042025/7-14 dated:02/04/2025

Name and Address of Industry:-	Vijay II Iron Ore Mines M/s TATA Steel Limited Badajamda-833 221.	W. O. No.	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	Ambient Air	Sample Inward No.	ALPL/250325/ENV-4/42-5 & 6
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/03/2025 to 18/03/2025 & 20/03/2025 to 21/03/2025)	Sample Inward Date	25/03/2025
Test Started On:-	25/03/2025	Test Completed On:-	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	Discipline: Chemical		Group: Atmospheric Pollution		Material or Product tested : Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	17.03.2025	64.7	23.8	14.2	31.8	BLQ (LOQ-0.5)
		20.03.2025	56.1	18.3	9.7	19.4	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

---End of Report---

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Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.-TC129982500001535F

Report No.: ALPL/02042025/7-15 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-3 & 4
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/03/2025 to 18/03/2025 & 20/03/2025 to 21/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Near ISS Parking	17.03.2025	61.8	24.9	13.6	22.7	BLQ (LOQ-0.5)
		20.03.2025	56.3	19.2	8.4	17.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001536F

Report No.: ALPL/02042025/7-16 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-7 & 8
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 17/03/2025 to 18/03/2025 & 20/03/2025 to 21/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
.			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	17.03.2025	58.3	18.7	9.2	21.6	BLQ (LOQ-0.5)
		20.03.2025	64.9	24.6	14.1	23.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.-TC129982500001537F

Report No.: ALPL/02042025/7-17 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-9 & 10
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/03/2025 to 14/03/2025 & 18/03/2025 to 19/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School) (Buffer Zone)	13.03.2025	57.1	23.8	12.9	21.4	BLQ (LOQ-0.5)
		18.03.2025	47.8	16.9	8.4	17.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001538F
Report No.: ALPL/02042025/7-18 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-11 & 12
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/03/2025 to 14/03/2025 & 18/03/2025 to 19/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each.	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple) (Buffer Zone)	13.03.2025	52.8	23.7	12.6	21.7	BLQ (LOQ-0.5)
		18.03.2025	56.1	24.3	11.9	23.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001539F

Report No.: ALPL/02042025/7-19 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-13 & 14
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/03/2025 to 14/03/2025 & 18/03/2025 to 19/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village (Buffer Zone)	13.03.2025	58.6	17.4	9.3	18.6	BLQ (LOQ-0.5)
		18.03.2025	57.1	16.9	8.7	17.3	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001540F

Report No.: ALPL/02042025/7-20 dated:02/04/2025 **Page 1 of 1**

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/250325/ENV-4/42-15 & 16
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 13/03/2025 to 14/03/2025 & 18/03/2025 to 19/03/2025)	**Sample Inward Date**	25/03/2025
Test Started On:-	25/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village (Buffer Zone)	13.03.2025	58.6	17.9	9.1	18.3	BLQ (LOQ-0.5)
		18.03.2025	62.1	24.6	12.4	23.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

ANACON LABORATORIES PVT. LTD. ORIGINAL COPY

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001541F

Report No.: ALPL/02042025/7-21 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-1
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/03/2025 to 26/03/2025 & 2703/2025 to 28/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

.Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-1	Near Main Gate (Core Zone)	25.03.2025	64.3	19.2	8.7	18.4	BLQ (LOQ-0.5)
		27.03.2025	68.1	21.6	12.9	24.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001542F
Report No.: ALPL/02042025/7-22 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-5
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/03/2025 to 26/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-2	Quarry-1 (Near Weigh Bridge) (Core Zone)	25.03.2025	61.8	21.6	11.8	23.6	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001543F

Report No.: ALPL/02042025/7-23 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.		**W. O. No.**	4700126596/962
			W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-3	
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1	
		Transport Condition	Carry in ice box at 4 °C	
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/03/2025 to 26/03/2025)	**Sample Inward Date**	31/03/2025	
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025	
Sampling Method	ANtd/7.2/MON-01			

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-3	Near ISS Parking	25.03.2025	62.7	23.6	12.6	21.9	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001544F

Report No.: ALPL/02042025/7-24 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-7
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 25/03/2025 to 26/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-4	Near B.S. Mining Office (Core Zone)	25.03.2025	67.2	26.4	13.9	24.7	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001545F
Report No.: ALPL/02042025/7-25 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-8
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/03/2025 to 21/03/2025 & 24/03/2025 to 25/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-5	Baihatu Village (Near School) (Buffer Zone)	20.03.2025	53.7	21.6	9.1	16.7	BLQ (LOQ-0.5)
		24.03.2025	56.2	23.7	11.4	21.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001546F

Report No.: ALPL/02042025/7-26 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		. W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-9
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/03/2025 to 21/03/2025 & 24/03/2025 to 25/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-6	Baraiburu Village (Near Temple) (Buffer Zone)	20.03.2025	54.9	21.7	12.8	19.3	BLQ (LOQ-0.5)
		24.03.2025	48.6	19.2	9.2	18.4	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001547F
Report No.: ALPL/02042025/7-27 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-10
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/03/2025 to 21/03/2025 & 24/03/2025 to 25/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-7	Gua Village (Buffer Zone)	20.03.2025	61.7	24.7	12.6	21.9	BLQ (LOQ-0.5)
		24.03.2025	58.3	21.4	11.3	19.2	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. ● **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

---End of Report---

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TC-12998

Test Report

ULR No.-TC129982500001548F

Report No.: ALPL/02042025/7-28 dated:02/04/2025

Name and Address of Industry:-	**Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**W. O. No.**	4700126596/962
		, W. O. date:	30.05.2024
Sample Description/ Type	**Ambient Air**	**Sample Inward No.**	ALPL/310325/-ENV-10/16-11
		Reference to sampling plan	ANtd/7.3/Mon-02/March-2025/1
		Transport Condition	Carry in ice box at 4 °C
Sampled by	Anacon Representative Mr. Biplab Giri (Sampling duration Period 20/03/2025 to 21/03/2025 & 24/03/2025 to 25/03/2025)	**Sample Inward Date**	31/03/2025
Test Started On:-	31/03/2025	**Test Completed On:-**	02/04/2025
Sampling Method	ANtd/7.2/MON-01		

Sr. No.	**LOCATION**	**Date of sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
			3Nos., 8 hrly each:	1No, 24hrs	6Nos, 4 hrly each	6Nos, 4 hrly each	3Nos., 8 hrly each
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-8	Bokna Village (Buffer Zone)	20.03.2025	64.8	26.1	14.6	24.9	BLQ (LOQ-0.5)
		24.03.2025	57.3	19.8	11.3	21.1	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2.0 (8 hrs)**

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. • **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).**

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
https: // www.anaconlaboratories.com

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TC-12998

Test Report

ULR No.-TC129982500001616F

Report No.: ALPL/02042025/7-46 **Dated:** 02/04/2025

Name and Address of Industry:-	**Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality** (Core Zone)	**Sample Inward No.:-**	ALPL/250325/ENV-4/42-40
Sampled by	**Anacon Representative** Mr. Biplab Giri	**Sample Inward Date:-**	25/03/2025
Test Started On:-	26/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	**LOCATION**	**Date of Sampling**	**Particulate Matter (PM10) µg/m³**	**Particulate Matter (PM2.5) µg/m³**	**Sulphur dioxide µg/m³**	**Oxides of Nitrogen µg/m³**	**Carbon Monoxide (as CO) mg/m³**
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-9	Near HMV Gate	19.03.2025	61.7	24.6	13.1	26.8	BLQ (LOQ-0.5)
NAAQMS Standards			**100 (24 hrs)**	**60 (24 hrs)**	**80 (24 hrs)**	**80 (24 hrs)**	**2 (8 hrs)**

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. • **BLQ= below limit of quantification , LOQ= limit of quantification. • Environmental condition – Satisfactory. • 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 NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

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

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+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.-TC129982500001617F

Report No.: ALPL/02042025/7-47 **Dated:** 02/04/2025

Name and Address of Industry:-	**Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality** (Core Zone)	**Sample Inward No.:-**	ALPL/250325/ENV-4/42-41
Sampled by	**Anacon Representative** Mr. Biplab Giri	**Sample Inward Date:-**	25/03/2025
Test Started On:-	26/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	LOCATION	Date of Sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-10	Bokna Plot- Near Loading Point	19.03.2025	57.6	21.9	12.7	24.8	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)

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. • **BLQ= below limit of quantification , LOQ= limit of quantification.** • **Environmental condition – Satisfactory.** • **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 NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001618F

Report No.: ALPL/02042025/7-48 **Dated:** 02/04/2025

Name and Address of Industry:-	**Bokna Storage & Handling Plot** M/s TATA Steel Long Products Limited Barajamda, Jharkhand-833 221.	**Work Order No.**	4700126596/962-30.05.2024
Sample Description/ Type	**Ambient Air Quality** (Core Zone)	**Sample Inward No.:-**	ALPL/250325/ENV-4/42-42
Sampled by	**Anacon Representative** Mr. Biplab Giri	**Sample Inward Date:-**	25/03/2025
Test Started On:-	26/03/2025	**Test Completed On:-**	28/03/2025
Sampling Method	ANtd/7.2/Mon-01	**Weather Condition**	Satisfactory & Clear

Sr. No.	LOCATION	Date of Sampling	Particulate Matter (PM10) µg/m³	Particulate Matter (PM2.5) µg/m³	Sulphur dioxide µg/m³	Oxides of Nitrogen µg/m³	Carbon Monoxide (as CO) mg/m³
Test Method			IS 5182 (Part 23)	USEPA-40(Part 50)-Annex-L	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
I	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
AAQ-11	Bokna Plot- Near Weighbridge	19.03.2025	64.3	26.1	12.9	23.8	BLQ (LOQ-0.5)
NAAQMS Standards			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)

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Remark: -All Results are within Limit as per NAAQMS Standards.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500001549F
Test Report No.: ALPL/02042025/7-29A

Dated: 02/04/2025

Issued To: **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-17 **Inward Date:** 25/03/2025 **Work Order No.:** 4700126596/962-30.05.2024	**Analysis Start date:** 25/03/2025 **Analysis End date:** 31/03/2025 **Report Issue date:** 02/04/2025
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-RDS/2024/37, ALPL-TSL/CEIS-FPS/2024/25 **Calibration Status :**22/08/2024 to 21/08/2025. **Make & Model :-** CEIS/CEIS-121, 131 **Serial No.:-** RDS/362-2024,FPS/427/2024	**Sample Description :** Ambient Air **Sampled by Anacon Representative:** Mr. Mahadeo Mondal **Date of Sampling :** 17/03/2025 to 18/03/2025 **Time of sampling and duration :** Sampled from 17/03/2025 (11:35am) to 18/03/2025 (11:35 am). Particulate Matter (PM_{10})- 3Nos., 8 hrly each: Particulate Matter ($PM_{2.5}$)-1No, 24hrs: Sulphur dioxide - 6Nos, 4 hrly each : Oxides of Nitrogen - 6Nos, 4 hrly each : Carbon Monoxide (as CO)- 3Nos., 8 hrly each: Lead as Pb-3Nos., 8 hrly each: Nickel as Ni -3Nos., 8 hrly each: Arsenic as As-3Nos., 8 hrly each: Ozone (as O_3)- 3Nos., 8 hrly each: Ammonia (as NH_3)- 3Nos., 8 hrly each: Benzene-3Nos., 8 hrly each: Benzo-Pyrene-3Nos., 8 hrly each: **Sampling location :** Near Main Gate **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/March-2025/1	

Other Technical Data

Weather Conditions : Satisfactory & Clear Wind direction : SW Wind speed : 1.8 m/sec	Temp°C (Max) : 37 Temp°C (Min) : 22	Relative Humidity Min: 20% Max: 42%

Test Results

Sr. No.	Test Parameters	Measurement Unit	Test Method	Test Results	NAAQMS Standards
I.	**Discipline:** Chemical **Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
1.	Particulate Matter (PM_{10})	µg /m³	IS:5182 (Part 23)	56.1	100 (24 hrs)
2.	Particulate Matter ($PM_{2.5}$)	µg /m³	USEPA-40 (Part 50)	23.7	60 (24 hrs)
3.	Sulphur dioxide	µg /m³	IS:5182 (Part 2)	9.2	80 (24 hrs)
4	Oxides of Nitrogen	µg /m³	IS:5182 (Part 6)	17.4	80 (24 hrs)
5.	Carbon Monoxide (as CO)	mg /m³	IS:5182 (Part 10)	BLQ (LOQ-0.5)	2.0 (8 hrs)
6.	Lead as Pb	µg /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-0.2)	1.0 (24 hrs)
7.	Nickel as Ni	ng /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-10.0)	20.0 (annual)
8.	Arsenic as As	ng /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-2.0)	6.0 (annual)
9.	Ozone (as O_3)	µg /m³	IS:5182 (Part 9)	8.4	100 (8 hrs)
10.	Ammonia (NH_3)	µg /m³	CPCB Guidelines Volume 1	13.6	400 (24 hrs)
11.	Benzene	µg /m³	ANtr/7.2/RES/28	BLQ (LOQ-0.01)	5.0 (annual)
12.	Benzopyrene	ng /m³	ANtr/7.2/RES/29	BLQ (LOQ-0.01)	1.0 (annual)

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Remark: - All Results are within Limit as per NAAQMS Standards.

	Verified by		Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwal Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001550F
Test Report No.: ALPL/02042025/7-30A

Dated: 02/04/2025

Issued To: **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-18 **Inward Date:** 25/03/2025 **Work Order No.:** 4700126596/962-30.05.2024	**Analysis Start date:** 25/03/2025 **Analysis End date:** 31/03/2025 **Report Issue date:** 02/04/2025
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-RDS/2024/38, ALPL-TSL/CEIS-FPS/2024/26 **Calibration Status :**22/08/2024 to 21/08/2025. **Make & Model :-** CEIS/CEIS-121, 131 **Serial No.:-** RDS/370-2024,FPS/411/2024	**Sample Description :** Ambient Air **Sampled by Anacon Representative:** Mr. Mahadeo Mondal **Date of Sampling :** 17/03/2025 to 18/03/2025 **Time of sampling and duration :** Sampled from 17/03/2025 (11:55 am) to 18/03/2025 (11:55 am). Particulate Matter (PM_{10})- 3Nos., 8 hrly each: Particulate Matter ($PM_{2.5}$)-1No, 24hrs: Sulphur dioxide - 6Nos, 4 hrly each : Oxides of Nitrogen - 6Nos, 4 hrly each : Carbon Monoxide (as CO)- 3Nos., 8 hrly each: Lead as Pb-3Nos., 8 hrly each: Nickel as Ni -3Nos., 8 hrly each: Arsenic as As-3Nos., 8 hrly each: Ozone (as O_3)- 3Nos., 8 hrly each: Ammonia (as NH_3)- 3Nos., 8 hrly each: Benzene-3Nos., 8 hrly each: Benzo-Pyrene-3Nos., 8 hrly each: **Sampling location :** Near ISS Parking **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/March-2025/1	

Other Technical Data

Weather Conditions : Satisfactory & Clear Wind direction : SW Wind speed : 1.8 m/sec	Temp°C (Max) : 37 Temp°C (Min) : 22	Relative Humidity Min: 20% Max: 42%

Test Results

Sr. No.	Test Parameters	Measurement Unit	Test Method	Test Results	NAAQMS Standards
I.	Discipline: Chemical Group: Atmospheric Pollution		Material or Product tested : Ambient Air		
1.	Particulate Matter (PM_{10})	µg /m³	IS:5182 (Part 23)	61.8	100 (24 hrs)
2.	Particulate Matter ($PM_{2.5}$)	µg /m³	USEPA-40 (Part 50)	24.9	60 (24 hrs)
3.	Sulphur dioxide	µg /m³	IS:5182 (Part 2)	13.6	80 (24 hrs)
4	Oxides of Nitrogen	µg /m³	IS:5182 (Part 6)	22.7	80 (24 hrs)
5.	Carbon Monoxide (as CO)	mg /m³	IS:5182 (Part 10)	BLQ (LOQ-0.5)	2.0 (8 hrs)
6.	Lead as Pb	µg /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-0.2)	1.0 (24 hrs)
7.	Nickel as Ni	ng /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-10.0)	20.0 (annual)
8.	Arsenic as As	ng /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-2.0)	6.0 (annual)
9.	Ozone (as O_3)	µg /m³	IS:5182 (Part 9)	11.6	100 (8 hrs)
10.	Ammonia (NH_3)	µg /m³	CPCB Guidelines Volume 1	18.4	400 (24 hrs)
11.	Benzene	µg /m³	ANtr/7.2/RES/28	BLQ (LOQ-0.01)	5.0 (annual)
12.	Benzopyrene	ng /m³	ANtr/7.2/RES/29	BLQ (LOQ-0.01)	1.0 (annual)

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by			Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001551F
Test Report No.: ALPL/02042025/7-31A

Dated: 02/04/2025

Issued To: **Vijay II Iron Ore Mines** **M/s TATA Steel Limited** Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-19 **Inward Date:** 25/03/2025 **Work Order No.:** 4700126596/962-30.05.2024	**Analysis Start date:** 25/03/2025 **Analysis End date:** 31/03/2025 **Report Issue date:** 02/04/2025
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-RDS/2024/39, ALPL-TSL/CEIS-FPS/2024/27 **Calibration Status :**22/08/2024 to 21/08/2025. **Make & Model :-** CEIS/CEIS-121, 131 **Serial No.:-** RDS/360-2024,FPS/442/2024	**Sample Description :** Ambient Air **Sampled by Anacon Representative:** Mr. Mahadeo Mondal **Date of Sampling :** 17/03/2025 to 18/03/2025 **Time of sampling and duration :** Sampled from 17/03/2025 (12:25 pm) to 18/03/2025 (12:25 pm). Particulate Matter (PM_{10})- 3Nos., 8 hrly each: Particulate Matter ($PM_{2.5}$)-1No, 24hrs: Sulphur dioxide - 6Nos, 4 hrly each : Oxides of Nitrogen - 6Nos, 4 hrly each : Carbon Monoxide (as CO)- 3Nos., 8 hrly each: Lead as Pb-3Nos., 8 hrly each: Nickel as Ni -3Nos., 8 hrly each: Arsenic as As-3Nos., 8 hrly each: Ozone (as O_3)- 3Nos., 8 hrly each: Ammonia (as NH_3)- 3Nos., 8 hrly each: Benzene-3Nos., 8 hrly each: Benzo-Pyrene-3Nos., 8 hrly each: **Sampling location :** **Quarry-1(Near Weigh Bridge)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/March-2025/1	

Other Technical Data

Weather Conditions : Satisfactory & Clear Wind direction : SW Wind speed : 1.8 m/sec	Temp°C (Max) : 37 Temp°C (Min) : 22	Relative Humidity Min: 20% Max: 42%

Test Results

Sr. No.	Test Parameters	Measurement Unit	Test Method	Test Results	NAAQMS Standards
I.	**Discipline:** Chemical **Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
1.	Particulate Matter (PM_{10})	µg /m³	IS:5182 (Part 23)	64.7	100 (24 hrs)
2.	Particulate Matter ($PM_{2.5}$)	µg /m³	USEPA-40 (Part 50)	23.8	60 (24 hrs)
3.	Sulphur dioxide	µg /m³	IS:5182 (Part 2)	14.2	80 (24 hrs)
4	Oxides of Nitrogen	µg /m³	IS:5182 (Part 6)	31.8	80 (24 hrs)
5.	Carbon Monoxide (as CO)	mg /m³	IS:5182 (Part 10)	BLQ (LOQ-0.5)	2.0 (8 hrs)
6.	Lead as Pb	µg /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-0.2)	1.0 (24 hrs)
7.	Nickel as Ni	ng /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-10.0)	20.0 (annual)
8.	Arsenic as As	ng /m³	ANtr/7.2/RES-INORG/04	BLQ (LOQ-2.0)	6.0 (annual)
9.	Ozone (as O_3)	µg /m³	IS:5182 (Part 9)	8.6	100 (8 hrs)
10.	Ammonia (NH_3)	µg /m³	CPCB Guidelines Volume 1	9.2	400 (24 hrs)
11.	Benzene	µg /m³	ANtr/7.2/RES/28	BLQ (LOQ-0.01)	5.0 (annual)
12.	Benzopyrene	ng /m³	ANtr/7.2/RES/29	BLQ (LOQ-0.01)	1.0 (annual)

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Remark: - All Results are within Limit as per NAAQMS Standards.

	Verified by		Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

----End of Report----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001552F
Test Report No.: ALPL/02042025/7-32A

Dated: 02/04/2025

Issued To: **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-20 **Inward Date:** 25/03/2025 **Work Order No.:** 4700126596/962-30.05.2024	**Analysis Start date:** 25/03/2025 **Analysis End date:** 31/03/2025 **Report Issue date:** 02/04/2025
Samplings details: **Instrument ID :** ALPL-TSL/CEIS-RDS/2024/40, ALPL-TSL/CEIS-FPS/2024/28 **Calibration Status :**22/08/2024 to 21/08/2025. **Make & Model :-** CEIS/CEIS-121, 131 **Serial No.:-** RDS/366-2024,FPS/437/2024	**Sample Description :** Ambient Air **Sampled by Anacon Representative:** Mr. Mahadeo Mondal **Date of Sampling :** 17/03/2025 to 18/03/2025 **Time of sampling and duration :** Sampled from 17/03/2025 (2:25 pm) to 18/03/2025 (2:25 pm). Particulate Matter (PM_{10})- 3Nos., 8 hrly each: Particulate Matter ($PM_{2.5}$)-1No, 24hrs: Sulphur dioxide - 6Nos, 4 hrly each : Oxides of Nitrogen - 6Nos, 4 hrly each : Carbon Monoxide (as CO)- 3Nos., 8 hrly each: Lead as Pb-3Nos., 8 hrly each: Nickel as Ni -3Nos., 8 hrly each: Arsenic as As-3Nos., 8 hrly each: Ozone (as O_3)- 3Nos., 8 hrly each: Ammonia (as NH_3)- 3Nos., 8 hrly each: Benzene-3Nos., 8 hrly each: Benzo-Pyrene-3Nos., 8 hrly each: **Sampling location :** **Near B.S. Mining Office** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/March-2025/1	

Other Technical Data

Weather Conditions : Satisfactory & Clear Wind direction : SW Wind speed : 1.8 m/sec	Temp°C (Max) : 37 Temp°C (Min) : 22	Relative Humidity Min: 20% Max: 42%

Test Results

Sr. No.	Test Parameters	Measurement Unit	Test Method	Test Results	NAAQMS Standards
I.	**Discipline:** Chemical **Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Air		
1.	Particulate Matter (PM_{10})	µg /m^3	IS:5182 (Part 23)	58.3	100 (24 hrs)
2.	Particulate Matter ($PM_{2.5}$)	µg /m^3	USEPA-40 (Part 50)	18.7	60 (24 hrs)
3.	Sulphur dioxide	µg /m^3	IS:5182 (Part 2)	9.2	80 (24 hrs)
4	Oxides of Nitrogen	µg /m^3	IS:5182 (Part 6)	21.6	80 (24 hrs)
5.	Carbon Monoxide (as CO)	mg /m^3	IS:5182 (Part 10)	BLQ (LOQ-0.5)	2.0 (8 hrs)
6.	Lead as Pb	µg /m^3	ANtr/7.2/RES-INORG/04	BLQ (LOQ-0.2)	1.0 (24 hrs)
7.	Nickel as Ni	ng /m^3	ANtr/7.2/RES-INORG/04	BLQ (LOQ-10.0)	20.0 (annual)
8.	Arsenic as As	ng /m^3	ANtr/7.2/RES-INORG/04	BLQ (LOQ-2.0)	6.0 (annual)
9.	Ozone (as O_3)	µg /m^3	IS:5182 (Part 9)	11.7	100 (8 hrs)
10.	Ammonia (NH_3)	µg /m^3	CPCB Guidelines Volume 1	14.2	400 (24 hrs)
11.	Benzene	µg /m^3	ANtr/7.2/RES/28	BLQ (LOQ-0.01)	5.0 (annual)
12.	Benzopyrene	ng /m^3	ANtr/7.2/RES/29	BLQ (LOQ-0.01)	1.0 (annual)

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Remark: - All Results are within Limit as per NAAQMS Standards.

	Verified by		Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

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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 : 22nd October,2024
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)	14.8	16.9	13.4
	Depth (meter)	0.57	0.48	0.53
	Velocity (m/s)	0.21	0.27	0.26
	Velocity (m/hrs.)	**756**	**972**	**936**
Calculation of Flow				
10:50 A.M.	Area (m^2)	: Depth (m) x Width (m)		8.436
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)		**6377.62**
11:25 A.M.	Area (m^2)	: Depth (m) x Width (m)		8.112
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)		**7884.86**
12:10 P.M.	Area (m^2)	: Depth (m) x Width (m)		7.102
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)		**6647.47**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Karo River Upstream Near Hati Chowk is 6969.98 m^3/hrs

Chemist SRuf.

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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 : 22nd October,2024

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)	15.3	16.9	13.8
Depth (meter)	0.57	0.46	0.52
Velocity (m/s)	0.28	0.31	0.26
Velocity (m/hrs.)	**1008**	**1116**	**936**

Calculation of Flow

11:15 A.M.	Area (m^2)	: Depth (m) x Width (m)	8.721
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**8790.77**
11:45 A.M.	Area (m^2)	: Depth (m) x Width (m)	7.774
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**8675.78**
12:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.176
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6716.74**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Karo River Downstream near Hanuman Mandir is 8061.10 m^3/hrs.

Chemist SRuf.

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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 : 22nd October,2024

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	19.6	17.1
Depth (meter)	0.34	0.28	0.26
Velocity (m/s)	0.19	0.26	0.23
Velocity (m/hrs.)	684	936	828

Calculation of Flow

1:35 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.508
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	3767.47
2:20 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.488
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	5136.77
3:35 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.446
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	3681.29

Remarks: - Average Discharge from Koina River Upstream is 4195.18 m^3/hrs.

Chemist S Ruf.

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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 : 22nd October,2024

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)	19.6	22.7	21.6
	Depth (meter)	0.36	0.28	0.24
	Velocity (m/s)	0.26	0.24	0.19
	Velocity (m/hrs.)	**936**	**864**	**684**

Calculation of Flow

1:55P.M.	Area (m^2)	: Depth (m) x Width (m)	7.056
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6604.42**
2:40 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.356
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5491.58**
4:10 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.184
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**3545.86**

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Remarks: - Average Discharge from Koina River Downstream is 5213.95 m^3/hrs.

Chemist S Ruf.

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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 : **Baraiburu Nallah**

Type of measurement : Open Channel Flow

Date of measurement : 22nd October,2024

Formula used : Flow Rate, Q (m3/hrs.) = Velocity, v (m/hrs.) x Area, A (m2)

Parameters measured

Parameter	Value	Value	Value
Width (meter)	17.2	16.1	13.9
Depth (meter)	0.38	0.34	0.29
Velocity (m/s)	0.24	0.28	0.21
Velocity (m/hrs.)	**864**	**1008**	**756**

Calculation of Flow

4:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.536
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5647.10**
5:15 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.474
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5517.79**
5:35 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.031
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**3047.44**

Remarks: - Average Discharge from Baraiburu Nallah is 4737.44 m^3/hrs.

Chemist S Ruf.

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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 : 29th November,2024
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)	14.3	16.7	13.9
Depth (meter)	0.53	0.47	0.51
Velocity (m/s)	0.19	0.24	0.26
Velocity (m/hrs.)	**684**	**864**	**936**

Calculation of Flow

11:35A.M.	Area (m^2)	: Depth (m) x Width (m)	7.579
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5184.04**
12:10 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.849
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6781.54**
1:30 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.089
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6635.30**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Karo River Upstream Near Hati Chowk is 6200.29 m^3/hrs

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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 : 29th November,2024

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)	15.2	16.4	12.8
Depth (meter)	0.56	0.43	0.51
Velocity (m/s)	0.26	0.28	0.24
Velocity (m/hrs.)	**936**	**1008**	**864**

Calculation of Flow

11:50 A.M.	Area (m^2)	: Depth (m) x Width (m)	8.512
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**7967.23**
12:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.052
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**7108.42**
1:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.528
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5640.19**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Karo River Downstream near Hanuman Mandir is 6905.28 m^3/hrs.

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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 : 29th November,2024

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)	17.3	18.4	17.6
Depth (meter)	0.31	0.29	0.28
Velocity (m/s)	0.21	0.24	0.26
Velocity (m/hrs.)	**756**	**864**	**936**

Calculation of Flow

2:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.363
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4054.43**
3:20 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.336
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4610.30**
3:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.928
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4612.61**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Koina River Upstream is 4425.78 m^3/hrs.

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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 : 29th November,2024

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)	18.2	21.4	16.9
Depth (meter)	0.37	0.31	0.28
Velocity (m/s)	0.24	0.26	0.17
Velocity (m/hrs.)	**864**	**936**	**612**

Calculation of Flow

3:10 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.734
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5818.18**
3:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.634
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6209.42**
4:25 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.732
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**2895.98**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Koina River Downstream is 4974.53 m^3/hrs.

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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 : 28th January,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	15.8	13.7
	Depth (meter)	0.54	0.46	0.52
	Velocity (m/s)	0.18	0.21	0.24
	Velocity (m/hrs.)	**648**	**756**	**864**

Calculation of Flow

11:20 A.M.	Area (m^2)	: Depth (m) x Width (m)	7.614
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4933.87**
12:35 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.268
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5494.61**
1:40 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.124
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6155.14**

ORIGINAL TEST REPORT

Remarks: - Average Discharge from Karo River Upstream Near Hati Chowk is 5527.87 m^3/hrs

Chemist SBY.

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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 : 28th January,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)	15.3	16.1	11.7
Depth (meter)	0.58	0.43	0.52
Velocity (m/s)	0.24	0.26	0.21
Velocity (m/hrs.)	**864**	**936**	**756**

Calculation of Flow

11:55 A.M.	Area (m^2)	: Depth (m) x Width (m)	8.874
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**7667.14**
12:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.923
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6479.93**
2:35 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.084
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4599.50**

Remarks: - Average Discharge from Karo River Downstream near Hanuman Mandir is 6248.86 m^3/hrs.

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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 : 28th January,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)	16.8	17.6	18.2
Depth (meter)	0.34	0.26	0.27
Velocity (m/s)	0.23	0.21	0.24
Velocity (m/hrs.)	**828**	**756**	**864**

Calculation of Flow

3:25 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.712
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4729.54**
4:10 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.576
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**3459.46**
4:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	4.914
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4245.70**

Remarks: - Average Discharge from Koina River Upstream is 4144.90 m^3/hrs.

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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 : 28th January,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)	17.9	21.7	18.4
Depth (meter)	0.38	0.26	0.31
Velocity (m/s)	0.21	0.24	0.19
Velocity (m/hrs.)	**756**	**864**	**684**

Calculation of Flow

3:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.802
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5142.31**
4:40 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.642
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4874.69**
5:20 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.704
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**3901.54**

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Remarks: - Average Discharge from Koina River Downstream is 4639.51 m^3/hrs.

Chemist

----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 Upstream (Near Hati Chowk)**
Type of measurement	: Open Channel Flow
Date of measurement	: 28nd March,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)	0.54	0.48	0.53
Velocity (m/s)	0.24	0.19	0.26
Velocity (m/hrs.)	**864**	**684**	**936**

Calculation of Flow

11:30 A.M.	Area (m^2)	: Depth (m) x Width (m)	7.614
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6578.50**
12:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.824
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5153.62**
1:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.678
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6250.61**

Remarks: - **Average Discharge from Karo River Upstream Near Hati Chowk is 6060.24 m^3/hrs**

Verified by	Signatory	Authorized Signatory
Snehal Raut	Pooja Kathane	Chinmay Garway
Technical Manager	Technical Manager	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	: **Karo River Downstream (Near Hanuman Mandir)**
Type of measurement	: Open Channel Flow
Date of measurement	: 28nd March,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)	15.3	16.1	13.1
Depth (meter)	0.58	0.48	0.52
Velocity (m/s)	0.24	0.21	0.26
Velocity (m/hrs.)	**864**	**756**	**936**

Calculation of Flow

11:50 A.M.	Area (m^2)	: Depth (m) x Width (m)	8.874
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**7667.14**
1:30 P.M.	Area (m^2)	: Depth (m) x Width (m)	7.728
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5842.37**
2:10 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.812
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**6376.03**

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Remarks: - Average Discharge from Karo River Downstream near Hanuman Mandir is 6628.51 m^3/hrs.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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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	: 28nd March,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)	0.34	0.27	0.31
Velocity (m/s)	0.21	0.16	0.24
Velocity (m/hrs.)	**756**	**576**	**864**

Calculation of Flow

2:50 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.508
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4164.05**
3:20P.M.	Area (m^2)	: Depth (m) x Width (m)	4.617
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**2659.39**
4:15 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.673
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**4901.47**

Remarks: - Average Discharge from Koina River Upstream is 3908.30 m^3/hrs.

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Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

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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	: 28nd March,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)	18.1	22.4	18.7
Depth (meter)	0.34	0.27	0.31
Velocity (m/s)	0.26	0.24	0.18
Velocity (m/hrs.)	**936**	**864**	**648**

Calculation of Flow

3:10P.M.	Area (m^2)	: Depth (m) x Width (m)	6.154
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5760.14**
3:45 P.M.	Area (m^2)	: Depth (m) x Width (m)	6.048
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**5225.47**
4:55 P.M.	Area (m^2)	: Depth (m) x Width (m)	5.797
	Q (m^3/hrs.)	: v (m/hrs.) x A (m^2)	**3756.46**

Remarks: - Average Discharge from Koina River Downstream is 4914.02 m^3/hrs.

Verified by	Signatory	Authorized Signatory
Snehal Raut	Pooja Kathane	Chinmay Garwal
Technical Manager	Technical Manager	Deputy Quality Manager

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Test Report

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

Ground Water Table Measurement
February-2025

Sl. No.	Date of Measurement	Location	Water level Below Ground Level (In meter)
1	22/02/2025	Well Near Baihatu Village	**7.62**
2	22/02/2025	Well Near Baraiburu Village	**6.7**
3	22/02/2025	Well Near Bokna Village	**5.18**

Verified by

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Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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Test Report

Vijay II Iron Ore Mines

M/s TATA Steel Limited
Badajamda-833 221.

Ground Water Table Measurement
November-2024

Sl. No.	Date of Measurement	Location	Water level Below Ground Level (In meter)
1	23/11/2024	Well Near Baihatu Village	**2.1**
2	23/11/2024	Well Near Baraiburu Village	**2.8**
3	23/11/2024	Well Near Gua Village	**1.9**
4	23/11/2024	Well Near Bokna Village	**2.4**

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

Verified by

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002269F

Test Report No. : ALPL/02122024/7-17A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25112024/MON-91-W-7/4-1 25/11/2024 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water
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. Rasel Khan	**Sampling Date** 23/11/2024	**Sampling Time** 11.50 am to 4.15 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 : Chemical**		**Group : Water**	**Material or Product tested: Drinking water**		
1	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	167.21
2	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	0.2	1.0	BLQ (LOQ-0.01)
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	5	15	1
4	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	32.57
6	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	48.61
7	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6	1.0	1.5	0.21
9	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	13.58
10	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	45	No relaxation	4.73
11	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
12	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.92
13	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
14	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	7.36
15	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
16	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	462
17	Turbidity	NTU	IS 3025 : (Part 10)	1	5	0.1
18	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	178

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

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982400002269F

Test Report No. : ALPL/02122024/7-17A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-1 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
II	**Discipline : Chemical**	**Group : Residues contaminants in water**		**Material or Product tested: Drinking water**		
19	**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)
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)

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

Verified By	**Signatory**	**Authorized Signatory**
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL/02122024/7-17B dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-1 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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**		**Material or Product tested: Drinking water**		
1	*Escherichia coli*	Per 100 ml	IS 15185	Absent	Absent	Absent
II	**Discipline : Chemical**	**Group : Residues and contaminants in water**		**Material or Product tested: Drinking water**		
2	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
3	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
4	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
5	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
6	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
7	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
8	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.26
9	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
10	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
11	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
12	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
13	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
14	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
15	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
III	**Discipline : Chemical**	**Group : Residues and contaminants in water**		**Material or Product tested: Drinking water**		
16	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

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'. ● **BLQ= below limit of quantification , LOQ= limit of quantification. ● ANtr/7.2/RES -03, ANtr/7.2/RES/06: Inhouse validated method. ● Sampling Method-ANtd/7.2/MON-01 ● Environmental condition – Satisfactory & Clear.**

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

Verified By

Pradnya Pillewan
Deputy Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Ganway
Deputy Quality Manager

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

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002270F

Test Report No. : ALPL/02122024/7-18A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-2 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
I	Discipline : Chemical		Group : Water	Material or Product tested: Drinking water		
1	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	176.82
2	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	0.2	1.0	BLQ (LOQ-0.01)
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	5	15	1
4	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	26.41
6	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	51.93
7	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6	1.0	1.5	0.17
9	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	12.81
10	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	45	No relaxation	6.92
11	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
12	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.21
13	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
14	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	6.82
15	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
16	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	452
17	Turbidity	NTU	IS 3025 : (Part 10)	1	5	1
18	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	182

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

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
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TC-12998

Test Report

ULR No.- TC129982400002270F

Test Report No. : ALPL/02122024/7-18A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-2 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
II	**Discipline : Chemical**	**Group : Residues contaminants in water**		**Material or Product tested: Drinking water**		
19	**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)
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)

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

Verified By	**Signatory**	**Authorized Signatory**
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
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Anacon Laboratories

Test Report

Test Report No. : ALPL/02122024/7-18B dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-2 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
I	**Discipline : Biological**		**Group : Water**	**Material or Product tested: Drinking water**		
1	*Escherichia coli*	Per 100 ml	IS 15185	Absent	Absent	Absent
II	**Discipline : Chemical**	**Group : Residues and contaminants in water**		**Material or Product tested: Drinking water**		
2	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
3	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
4	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
5	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
6	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
7	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
8	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.21
9	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
10	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
11	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
12	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
13	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
14	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
15	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
III	**Discipline : Chemical**	**Group : Residues and contaminants in water**		**Material or Product tested: Drinking water**		
16	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

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

Verified By

Pradnya Pillewan
Deputy Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002271F

Test Report No. : ALPL/02122024/7-19A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-3 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
I	**Discipline : Chemical**		**Group : Water**	**Material or Product tested: Drinking water**		
1	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	181.27
2	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	0.2	1.0	BLQ (LOQ-0.01)
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	5	15	1
4	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	23.81
6	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	46.67
7	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6	1.0	1.5	0.17
9	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	13.76
10	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	45	No relaxation	5.93
11	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
12	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.87
13	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
14	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	7.64
15	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
16	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	462
17	Turbidity	NTU	IS 3025 : (Part 10)	1	5	1
18	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	174

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

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982400002271F

Test Report No. : ALPL/02122024/7-19A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-3 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
II	**Discipline : Chemical**	**Group : Residues contaminants in water**		**Material or Product tested: Drinking water**		
19	**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)
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)

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

Verified By	**Signatory**	**Authorized Signatory**
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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Anacon Laboratories

Test Report

Test Report No. : ALPL/02122024/7-19B dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-3 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024			**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water
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. Rasel Khan	**Sampling Date** 23/11/2024	**Sampling Time** 11.50 am to 4.15 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**	**Material or Product tested: Drinking water**		
1	*Escherichia coli*	Per 100 ml	IS 15185	Absent	Absent	Absent
II	**Discipline : Chemical**		**Group : Residues and contaminants in water**	**Material or Product tested: Drinking water**		
2	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
3	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
4	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
5	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
6	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
7	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
8	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.17
9	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
10	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
11	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
12	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
13	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
14	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
15	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
III	**Discipline : Chemical**		**Group : Residues and contaminants in water**	**Material or Product tested: Drinking water**		
16	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

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

Verified By

Pradnya Pillewan
Deputy Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002272F

Test Report No. : ALPL/02122024/7-20A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-4 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 : Chemical		Group : Water	Material or Product tested: Drinking water		
1	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	172.31
2	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	0.2	1.0	BLQ (LOQ-0.01)
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	5	15	1
4	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	250	1000	26.57
6	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	51.92
7	Free Residual Chlorine	mg/l	IS 3025 (Part 26) Clause 7	0.2	1	BLQ (LOQ-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6	1.0	1.5	0.24
9	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	14.32
10	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	45	No relaxation	6.82
11	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
12	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.31
13	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
14	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	8.29
15	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
16	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	457
17	Turbidity	NTU	IS 3025 : (Part 10)	1	5	1
18	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	188

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

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982400002272F

Test Report No. : ALPL/02122024/7-20A dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-4 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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 #	
II	**Discipline : Chemical**	**Group : Residues contaminants in water**		**Material or Product tested: Drinking water**		
19	**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)
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)

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

Verified By	Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL/02122024/7-20B dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-W-7/4-4 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962-30.05.2024		**Analysis Start** 25/11/2024 **Analysis End** 02/12/2024 **Report Issue Date** 02/12/2024 **Sample Category** Water

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. Rasel Khan	23/11/2024	11.50 am to 4.15 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**	**Material or Product tested: Drinking water**		
1	*Escherichia coli*	Per 100 ml	IS 15185	Absent	Absent	Absent
II	**Discipline : Chemical**	**Group : Residues and contaminants in water**		**Material or Product tested: Drinking water**		
2	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
3	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)
4	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)
5	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
6	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)
7	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
8	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.16
9	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
10	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
11	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
12	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
13	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
14	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
15	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
III	**Discipline : Chemical**	**Group : Residues and contaminants in water**		**Material or Product tested: Drinking water**		
16	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)

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

Verified By

Pradnya Pillewan
Deputy Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001132F

Test Report No. : ALPL/03032025/7-35A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-27 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025
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** 22/02/2025	**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	173.91
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	32.64
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	52.81
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	12.94
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	7.63
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.72
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	21.43
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	184

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

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001132F
Test Report No. : ALPL/03032025/7-35A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/270225/W-1/34-27	**Analysis Start** 27/02/2025
	Inward Date	27/02/2025	**Analysis End** 03/03/2025
	Work Order No.	4700126596/962-30.05.2024	**Report Issue Date** 03/03/2025 **Sample Category** Water

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	22/02/2025	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	0.17
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		Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Ganvay Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001132F
Test Report No. : ALPL/03032025/7-35A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/270225/W-1/34-27 **Inward Date** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water

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	22/02/2025	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**					
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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Ganway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001132F
Test Report No. : ALPL/03032025/7-35A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-27 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Ganway Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500001133F
Test Report No. : ALPL/03032025/7-36A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-28 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	184.53
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	32.64
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	53.91
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	12.68
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	7.52
12	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
13	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.91
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	21.46
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	438
18	Turbidity	NTU	IS 3025 : (Part 10)	1	5	1
19	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) Clause 5	200	600	186

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

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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	Inward Date	27/02/2025	**Analysis End** 03/03/2025
	Work Order No.	4700126596/962-30.05.2024	**Report Issue Date** 03/03/2025 **Sample Category** Water

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	22/02/2025	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		Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/270225/W-1/34-28		**Analysis Start**	27/02/2025
	Inward Date	27/02/2025		**Analysis End**	03/03/2025
	Work Order No.	4700126596/962-30.05.2024		**Report Issue Date**	03/03/2025
				Sample Category	Water
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	22/02/2025	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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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Test Report No. : ALPL/03032025/7-36A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/270225/W-1/34-28 **Inward Date** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water

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	22/02/2025	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**					
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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

--- End of Report ---

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TC-12998

Test Report

ULR No.-TC129982500001134F
Test Report No. : ALPL/03032025/7-37A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-29 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	156.49
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	26.43
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	42.81
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	0.24
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	11.26
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	7.16
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	21.64
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	451
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	154

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

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001134F
Test Report No. : ALPL/03032025/7-37A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/270225/W-1/34-29	**Analysis Start** 27/02/2025
	Inward Date	27/02/2025	**Analysis End** 03/03/2025
	Work Order No.	4700126596/962-30.05.2024	**Report Issue Date** 03/03/2025 **Sample Category** Water

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	22/02/2025	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 #	
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	0.17
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		Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001134F
Test Report No. : ALPL/03032025/7-37A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-29 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwa Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001134F
Test Report No. : ALPL/03032025/7-37A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-29 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Ganway Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500001135F

Test Report No. : ALPL/03032025/7-38A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-30 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	164.71
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	42.64
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	51.37
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	0.24
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) Clause 6	30	100	9.72
11	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	45	No relaxation	8.36
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	21.53
16	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	427
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	168

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

Verified By

Snehal Raut
Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Ganvay
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001135F
Test Report No. : ALPL/03032025/7-38A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-30 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	0.17
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		Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.-TC129982500001135F
Test Report No. : ALPL/03032025/7-38A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-30 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water
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** 22/02/2025	**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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001135F
Test Report No. : ALPL/03032025/7-38A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/270225/W-1/34-30 27/02/2025 4700126596/962-30.05.2024		**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue Date** 03/03/2025 **Sample Category** Water

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	22/02/2025	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)

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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	Signatory	Authorized Signatory
Kashish Dhanrajani Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Ganway Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL/02122024/7-21 dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-EW-7/4- 1 & 2 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 25/11/2024 **Analysis End** 30/11/2024 **Report Issue date** 02/12/2024	

Sample Name	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	23/11/2024	11.40 am & 12.20 pm	1. Karo River (Upstream) (SW-1) 2. Karo River (Downstream) (SW-2)
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-1	SW-2
I	**Discipline : Biological**		**Group : Water**	**Subgroup : Surface water**		
1	Coliform	MPN/100ml	IS 1622	5000	BLQ (LOQ-2)	BLQ (LOQ-2)
II	**Discipline : Chemical**		**Group : Water**	**Subgroup : Surface water**		
2	pH value	-	IS 3025 (Part 11)	6.0 to 9.0	6.41 at 25°C	6.63 at 25°C
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	300	16	12
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.5	6.2
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	21	18
6	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.76	2.41
7	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	8.29	7.63
8	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1428	1132
9	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.07	0.04
10	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	264	239
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	116.54	94.27
12	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	50	26.43	21.59
13	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6	1.5	0.32	0.26
14	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
16	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
III	**Discipline : Chemical**		**Group : Residues and contaminants in water**		**Subgroup : Trace metal elements**	
17	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.43	0.38
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
19	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
20	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
21	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
22	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
23	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
24	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By

Pradnya Pillewan
Deputy Technical Manager

Snehal Raut
Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL/02122024/7-22 dated 02/12/2024

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/25112024/MON-91-EW-7/4- 3 & 4 **Inward Date** 25/11/2024 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 25/11/2024 **Analysis End** 30/11/2024 **Report Issue date** 02/12/2024	

Sample Name	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	23/11/2024	1.45 pm & 2.10 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	Test Result SW-4
I	**Discipline : Biological**		**Group : Water**	**Subgroup : Surface water**		
1	Coliform	MPN/100ml	IS 1622	5000	BLQ (LOQ-2)	BLQ (LOQ-2)
II	**Discipline : Chemical**		**Group : Water**	**Subgroup : Surface water**		
2	pH value	-	IS 3025 (Part 11)	6.0 to 9.0	6.61 at 25^{0}C	6.94 at 25^{0}C
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	300	26	21
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.4	6.1
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	21	16
6	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.53	2.47
7	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	7.91	6.82
8	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1354	1176
9	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.05	0.03
10	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	287	264
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	143	129
12	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	50	21.54	17.36
13	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6 : 2008	1.5	0.53	0.47
14	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
16	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	1.0	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
III	**Discipline : Chemical**		**Group : Residues and contaminants in water**	**Subgroup : Trace metal elements**		
17	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.46	0.42
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
19	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
20	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
21	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
22	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
23	Hexa Chromium (as Cr^{+6})	mg/l	IS 3025 (Part 52)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
24	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By

Pradnya Pillewan
Deputy Technical Manager

Snehal Raut
Technical Manager

Authorized Signatories

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400002802F
Test Report No. : ALPL/02012025/7-32A dated 02/01/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/23122024/MON-65-WW-7/4- 1 & 2	**Analysis Start** 24/12/2024
	Inward Date	23/12/2024	**Analysis End** 31/12/2024
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/01/2025

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	21/12/2024	11.55 am & 12.25 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	MPN/100ml	IS 1622	5000	BLQ (LOQ-2)	BLQ (LOQ-2)
II	**Discipline : Chemical**			**Group : Water**		
2	pH value	-	IS 3025 (Part 11)	6.0 to 9.0	6.53 at 25^{0}C	6.61 at 25^{0}C
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	300	12	8
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1382	1153
5	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.06	0.03
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	273	264
7	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	121.58	104.93
8	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	50	21.51	18.46
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6	1.5	0.27	0.24
10	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
11	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
12	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982400002802F

Test Report No. : ALPL/02012025/7-32A dated 02/01/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/23122024/MON-65-WW-7/4- 1 & 2 23/12/2024 4700126596/962 date: 30.05.2024	**Analysis Start** 24/12/2024 **Analysis End** 31/12/2024 **Report Issue date** 02/01/2025

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	21/12/2024	11.55 am & 12.25 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 : Chemical			Group : Residues and contaminants in water		
13	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.46	0.42
14	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
15	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
19	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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● BLQ= below limit of quantification , LOQ= limit of quantification.

REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By
Pradnya Pillewan
Deputy Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gatway
Deputy Quality Manager

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

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FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
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https: // www.anaconlaboratories.com

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Test Report

Test Report No. : ALPL/02012025/7-32B dated 02/01/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/23122024/MON-65-WW-7/4- 1 & 2	**Analysis Start** 24/12/2024
	Inward Date	23/12/2024	**Analysis End** 31/12/2024
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/01/2025

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	21/12/2024	11.55 am & 12.25 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	Test Result SW-2
I	**Discipline : Chemical**		**Group : Water**			
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.2	5.7
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	2.51	2.46
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	7.94	6.82
II	**Discipline : Chemical**		**Group : Residues and contaminants 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, sample was tested for above parameters only.

Verified By
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

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

Authorized Signatory
Chinmay Gaway
Deputy Quality Manager

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TC-12998

ULR No.- TC129982400002803F

Test Report

Test Report No. : ALPL/02012025/7-33A dated 02/01/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/25122024/MON-63-EW-7/4- 3 & 4	**Analysis Start** 25/12/2024
	Inward Date	25/12/2024	**Analysis End** 31/12/2024
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/01/2025

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	21/12/2024	3.40 pm & 4.10 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	MPN/100ml	IS 1622	5000	BLQ (LOQ-2)	BLQ (LOQ-2)
II	**Discipline : Chemical**			**Group : Water**		
2	pH value	-	IS 3025 (Part 11)	6.0 to 9.0	7.13 at 25°C	6.98 at 25°C
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	300	24	18
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1426	1287
5	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.07	0.04
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	291	273
7	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	152	146
8	Nitrate (as NO_3)	mg/l	APHA 23rd edition: Method 4500-NO3	50	23.94	18.46
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) Clause 6 : 2008	1.5	0.47	0.42
10	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
11	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
12	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982400002803F
Test Report No. : ALPL/02012025/7-33A dated 02/01/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/25122024/MON-63-EW-7/4- 3 & 4 25/12/2024 4700126596/962 date: 30.05.2024	**Analysis Start** 25/12/2024 **Analysis End** 31/12/2024 **Report Issue date** 02/01/2025

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	21/12/2024	3.40 pm & 4.10 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
III	Discipline : Chemical		Group : Residues and contaminants in water			
13	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.41	0.37
14	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
15	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Arsenic (as As)	mg/l	IS 3025 (Part 37)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
19	Mercury (as Hg)	mg/l	IS : 3025 (Part 48)	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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● BLQ= below limit of quantification , LOQ= limit of quantification.

REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By
Pradnya Pillewan
Deputy Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gadway
Deputy Quality Manager

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

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Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate,
MIDC Butibori, Nagpur, Maharashtra, India - 441 122
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Test Report

Test Report No. : ALPL/02012025/7-33B dated 02/01/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/25122024/MON-63-EW-7/4- 3 & 4	**Analysis Start** 25/12/2024
	Inward Date	25/12/2024	**Analysis End** 31/12/2024
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/01/2025

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	21/12/2024	3.40 pm & 4.10 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 : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.7	6.3
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	26	21
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.61	2.53
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	7.39	6.47
III	**Discipline : Chemical**			**Group : Residues and contaminants 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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwey
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC1299825000000601F
Test Report No. : ALPL/03022025/7-44A dated 03/02/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/20012025/MON-36-W-6/4-1 & 2 20/01/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 21/01/2025 **Analysis End** 27/01/2025 **Report Issue date** 03/02/2025

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	18/01/2025	11.20 am & 11.45 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	MPN/100ml	IS 1622	5000	BLQ (LOQ-2)	BLQ (LOQ-2)
II	**Discipline : Chemical**			**Group : Water**		
2	pH value	-	IS 3025 (Part 11)	6.0 to 9.0	6.42 at 25^{0}C	6.68 at 25^{0}C
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	300	21	16
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1429	1278
5	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.07	0.04
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	281	253
7	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	116.27	109.52
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	23.81	16.48
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.26	0.21
10	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
11	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
12	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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC1299825000000601F
Test Report No. : ALPL/03022025/7-44A dated 03/02/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/20012025/MON-36-W-6/4-1 & 2	**Analysis Start** 21/01/2025
	Inward Date	20/01/2025	**Analysis End** 27/01/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/02/2025

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	18/01/2025	11.20 am & 11.45 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 : Chemical			Group : Residues and contaminants in water		
13	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.46	0.41
14	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
15	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Arsenic (as As)	mg/l	3025 (Part 2)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
19	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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● BLQ= below limit of quantification , LOQ= limit of quantification.

REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By	Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL/03022025/7-44B dated 03/02/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/20012025/MON-36-W-6/4-1 & 2 20/01/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 21/01/2025 **Analysis End** 27/01/2025 **Report Issue date** 03/02/2025

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	18/01/2025	11.20 am & 11.45 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 : Chemical**		**Group : Water**			
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.1	5.8
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	18	14
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.64	2.52
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	7.81	6.97
II	**Discipline : Chemical**		**Group : Residues and contaminants 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, sample was tested for above parameters only.

Verified By
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Ganway
Deputy Quality Manager

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

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.-TC1299825000000602F
Test Report No. : ALPL/03022025/7-45A dated 03/02/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/20012025/MON-36-W-6/4-3 & 4 **Inward Date** 20/01/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 21/01/2025 **Analysis End** 27/01/2025 **Report Issue date** 03/02/2025	

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	18/01/2025	2.20 & 2.45 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	MPN/100ml	IS 1622	5000	BLQ (LOQ-2)	BLQ (LOQ-2)
II	**Discipline : Chemical**			**Group : Water**		
2	pH value	-	IS 3025 (Part 11)	6.0 to 9.0	6.87 at 25^{0}C	7.16 at 25^{0}C
3	Colour	Hazen units	IS 3025 (Part 4) Clause 4	300	26	18
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1387	1193
5	Copper (as Cu)	mg/l	IS 3025 (Part 2)	1.5	0.09	0.07
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	287	264
7	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	163	152
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	21.53	17.46
9	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.42	0.38
10	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	BLQ (LOQ-0.005)	BLQ (LOQ-0.005)
11	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.005	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
12	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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC1299825000000602F
Test Report No. : ALPL/03022025/7-45A dated 03/02/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/20012025/MON-36-W-6/4-3 & 4 **Inward Date** 20/01/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 21/01/2025 **Analysis End** 27/01/2025 **Report Issue date** 03/02/2025	

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	18/01/2025	2.20 & 2.45 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
III	**Discipline : Chemical**			**Group : Residues and contaminants in water**		
13	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.43	0.38
14	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.01	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
15	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.05	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
16	Arsenic (as As)	mg/l	3025 (Part 2)	0.2	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
17	Lead (as Pb)	mg/l	3025 (Part 2)	0.1	BLQ (LOQ-0.01)	BLQ (LOQ-0.01)
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	15	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)
19	Mercury (as Hg)	mg/l	Antr/7.2/Res.Inorg/01	--	BLQ (LOQ-0.001)	BLQ (LOQ-0.001)
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	--	BLQ (LOQ-0.02)	BLQ (LOQ-0.02)

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● **BLQ= below limit of quantification , LOQ= limit of quantification.**

REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By
Pradnya Pillewan
Deputy Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Ganvay
Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL/03022025/7-45B dated 03/02/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/20012025/MON-36-W-6/4-3 & 4 **Inward Date** 20/01/2025 **Work Order No.** 4700126596/962 date: 30.05.2024		**Analysis Start** 21/01/2025 **Analysis End** 27/01/2025 **Report Issue date** 03/02/2025

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	18/01/2025	2.20 & 2.45 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 : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.5	6.2
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	28	24
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.73	2.64
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	8.26	7.92
III	**Discipline : Chemical**			**Group : Residues and contaminants 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, sample was tested for above parameters only.

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garwey Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500001136F
Test Report No. : ALPL/03032025/7-39A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/270225/W-1/34-31 & 32	**Analysis Start** 27/02/2025
	Inward Date	27/02/2025	**Analysis End** 03/03/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/03/2025

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	22/02/2025	11.20 am & 11.45 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	6.53	6.71
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	10	5
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1384	1164
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	271	264
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	153	149
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	21.64	16.73
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.27	0.18
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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001137F
Test Report No. : ALPL/03032025/7-40A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/270225/W-1/34-33 & 34 **Inward Date** 27/02/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue date** 03/03/2025	

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	22/02/2025	4 pm to 5 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	6.92	7.21
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	20	10
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1428	1173
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	281	257
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	193	164
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	17.32	12.81
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.37	0.29
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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500000914F

Test Report No. : ALPL/03032025/1-51A dated : 03/03/2025

Issued To : **M/s Joda East Iron Mines** (M/s TATA Steel Limited)	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/250225/W-2/50-45 & 46 25/02/2025 4700126596/962-30.05.2024	**Analysis Start** **Analysis End** **Report Issue Date**	26/02/2025 03/03/2025 03/03/2025

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. Suveer Bhoi as per Sampling Method No.ANtd/7.2/MON-01	22/02/2025	2.30 pm & 2.45 pm	1. Kundra Nallah (Nr. Joda Pump House) (SW-1) 2. Kundra Nallah (Nr. Banaikala Village) (SW-2)

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	7.84	7.67
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	20	10
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1297	1152
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	246	182
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	198	173
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	32.68	28.41
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.57	0.46
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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001137F
Test Report No. : ALPL/03032025/7-40A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/270225/W-1/34-33 & 34	**Analysis Start** 27/02/2025
	Inward Date	27/02/2025	**Analysis End** 03/03/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/03/2025

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	22/02/2025	4 pm to 5 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	6.92	7.21
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	21	16
4	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16)	1500	1428	1173
5	Chloride (as Cl)	mg/l	IS 3025 (Part 32) Clause 2	600	281	257
6	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	400	193	164
7	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/sec 1) Clause 6.4	50	17.32	12.81
8	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec 1) Clause 6	1.5	0.37	0.29
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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001137F
Test Report No. : ALPL/03032025/7-40A dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/270225/W-1/34-33 & 34 **Inward Date** 27/02/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 27/02/2025 **Analysis End** 03/03/2025 **Report Issue date** 03/03/2025

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	22/02/2025	4 pm to 5 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
III	Discipline : Chemical			Group : Residues in water		
12	Iron (as Fe)	mg/l	IS 3025 (Part 2)	0.5	0.43	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. **The sample of above reference complies with requirement as per IS: 2296:1992 Class C, for tests conducted only.**

Verified By	Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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+ 91 8045685558 Email : info@anacon.in
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Test Report

Test Report No. : ALPL/03032025/7-40B dated 03/03/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/270225/W-1/34-33 & 34	**Analysis Start** 27/02/2025
	Inward Date	27/02/2025	**Analysis End** 03/03/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 03/03/2025

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	22/02/2025	4 pm to 5 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 : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.4	6.1
2	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17)	--	24	21
3	BOD (3 days at 27°C)	mg/l	IS-3025 (Part 44) : 2023	3.0	2.81	2.73
4	Chemical oxygen demand	mg/l	IS-3025(Part-58)	--	7.93	6.81
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. **The sample of above reference complies with requirement as per IS: 2296:1992 Class C, for tests conducted only.**

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500001553F

Test Report No. : ALPL02042025/7-44A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/250325/W-4/42-36 & 37 25/03/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 25/03/2025 **Analysis End** 31/03/2025 **Report Issue date** 02/04/2025

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	22/03/2025	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	6.71	6.82
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	12	6
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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001553F
Test Report No. : ALPL02042025/7-44A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/250325/W-4/42-36 & 37	**Analysis Start** 25/03/2025
	Inward Date	25/03/2025	**Analysis End** 31/03/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/04/2025

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	22/03/2025	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 : 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 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	0.07	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'.
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REMARKS : As requested by the client, the sample was tested for the above parameters only. **The sample of above reference complies with requirement as per IS: 2296:1992 Class C, for tests conducted only.**

Verified By	Signatory	Authorized Signatory
Pradnya Pillewan Deputy Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL02042025/7-44B dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/250325/W-4/42-36 & 37	**Analysis Start** 25/03/2025
	Inward Date	25/03/2025	**Analysis End** 31/03/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/04/2025

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	22/03/2025	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 : Chemical**		**Group : Water**			
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.4	5.8
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)

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Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500001554F
Test Report No. : ALPL02042025/7-45A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** **Inward Date** **Work Order No.**	ALPL/250325/W-4/42-38 & 39 25/03/2025 4700126596/962 date: 30.05.2024	**Analysis Start** 25/03/2025 **Analysis End** 31/03/2025 **Report Issue date** 02/04/2025

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	22/03/2025	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	6.84	7.31
3	Colour	Hazen	IS 3025 (Part 4) Clause 4	300	16	14
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

Pooja Kathane
Technical Manager

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001554F
Test Report No. : ALPL02042025/7-45A dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.**	ALPL/250325/W-4/42-38 & 39	**Analysis Start** 25/03/2025
	Inward Date	25/03/2025	**Analysis End** 31/03/2025
	Work Order No.	4700126596/962 date: 30.05.2024	**Report Issue date** 02/04/2025

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	22/03/2025	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
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 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	0.06	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'.
● **BLQ= below limit of quantification , LOQ= limit of quantification.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **The sample of above reference complies with requirement as per IS: 2296:1992 Class C, for tests conducted only.**

Verified By
Pradnya Pillewan
Deputy Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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

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Test Report

Test Report No. : ALPL02042025/7-45B dated 02/04/2025

Issued To : **Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.** ALPL/250325/W-4/42-38 & 39 **Inward Date** 25/03/2025 **Work Order No.** 4700126596/962 date: 30.05.2024	**Analysis Start** 25/03/2025 **Analysis End** 31/03/2025 **Report Issue date** 02/04/2025	

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	22/03/2025	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 : Chemical**			**Group : Water**		
1	Dissolved Oxygen	mg/l	IS 3025 (Part 38)	4.0	6.3	6.2
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)

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. **The sample of above reference complies with requirement as per IS: 2296:1992 Class C, for tests conducted only.**

Verified By	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

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

ORIGINAL TEST REPORT

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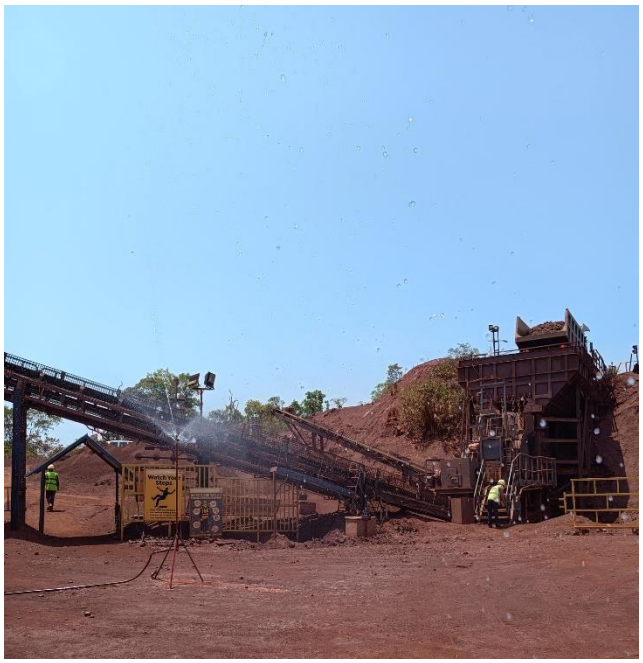
Annexure- 10

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-19937038/2024/1989 Dated : 2024-12-25

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 2024-09-18 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:

(a)The content of Environmental Clearance (EC), Ref 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, New Delhi.

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

(c)The content of Consent to Operate (CTO) vide Ref No. JSPCB/HO/RNC/CTO-17803141/2023/2062 Dated : 2023-12-12 At- As per EC Area As per EC Investment 13580.375 lac for Iron Ore -2.5 Million Ton/annum valid till 31/12/2024 in the name of Vijay-II Iron Ore Mines (M/S Tata Steel Long Products Limited);with compliance report and Photographs showing compliance.

(d) The content of Inspection report (IR) vide Ref. 1215 dated 26.10.2024 of Regional Officer, JSPC Board, Jamshedpur;

(e) The content of 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 DEC 2008, which was transferred to M/S Tata Steel Limited vide F.No- J-11015/1507/2007-IA-II(M), dated 02/07/2024.

(f) The content of the first mining lease was 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. The unit has also submitted a letter to the DMO Chaibasa, West Singhbhum, seeking extension as per the MMDR Amendment Act, 2015, for a period of the next 30 years. As per the approved mining plan, it is valid up to 31/03/2025

(g) The content of Approval of Modification and review of Mining Plan alongwith 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 via Ref. RAN/WSB/Fe/MP-35/2019-20 dated 22.09.2020 from Indian Bureau of Mines, Ministry of Mines, Govt. of India.

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	13580.375 lac	Iron Ore -2.5 Million Ton/annum	17/08/2025

(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 reclaim the mined out area and plantation should be done at the reclaimed site.

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. That, the occupier shall grant of this Consent-to-Operate is issued from the Environmental angle only and does not absolves the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry /unit/project proponent.

19. That, the occupier shall grant of this Consent-to-Operate is issued from the Environmental angle only and does not absolves the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry /unit/project proponent.

20. 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.

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

(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.

This is issued with the approval of the Competent authority

(Rajeev Lochan Bakshi)
Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-19937038/2024/1989 Dated : 2024-12-25

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)
Member Secretary

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate,
MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
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Test Report

Fugitive Emission Report-October-2024

Report No.: ALPL/30102024/6-5			**Date:** 30/10/2024
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/21102024/MON-86-EFE-1/32-1 & 2
Sampling by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	7, 14, 21,28, 30 October-2024
Test Started On:-	7, 14, 21,28, 30 Oct-2024	**Test Completed On**	8, 15, 22, 30 October-2024
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)	**Method Reference**	IS 5182 (Part 23)
1.	Near Crusher	04/10/2024	572	18/10/2024	626
		08/10/2024	491	22/10/2024	582
		11/10/2024	594	25/10/2024	518
		15/10/2024	603	28/10/2024	492
Average Value of -1		**560**			
2.	Haul Road	04/10/2024	672	18/10/2024	594
		08/10/2024	703	22/10/2024	629
		11/10/2024	647	25/10/2024	581
		15/10/2024	628	28/10/2024	573
Average Value of -2		**628**			
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 Garway
Deputy Quality Manager

----End of Report----

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Test Report

Fugitive Emission Report-October-2024

Report No.: ALPL/30102024/6-6			**Date:** 30/10/2024
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/21102024/MON-86-EFE-1/32-3 & 4
Sampling by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	7, 14, 21,28, 30 October-2024
Test Started On:-	7, 14, 21,28, 30 Oct-2024	**Test Completed On**	8, 15, 22, 30 October-2024
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)	**Method Reference**	IS 5182 (Part 23)
3.	Near Screening Plant	04/10/2024	416	18/10/2024	392
		08/10/2024	372	22/10/2024	284
		11/10/2024	451	25/10/2024	382
		15/10/2024	493	28/10/2024	328
Average Value of -3		**390**			
4.	Exit Main Gate	04/10/2024	503	18/10/2024	457
		08/10/2024	491	22/10/2024	386
		11/10/2024	524	25/10/2024	461
		15/10/2024	603	28/10/2024	418
Average Value of -4		**480**			
MoEF & CC Norms:		**1200 µg/m³**			

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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-November-2024

Report No.: ALPL/02122024/7-5			**Date:** 02/12/2024
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/25112024/MON-91-EFE-7/8-1 to 4
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	11/11/2024 & 25/11/2024
Test Started On:-	11/11/2024 & 25/11/2024	**Test Completed On**	12/11/2024 & 26/11/2024
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	04/11/2024	657	18/11/2024	593
FE-2	Haul Road	05/11/2024	718	19/11/2024	673
FE-3	Near Screening Plant	06/11/2024	591	20/11/2024	482
FE-4	Exit Main Gate	07/11/2024	627	21/11/2024	571
MoEF & CC Norms:		**1200 µg/m³**			

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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FP-34, 35,Food Park, Five Star Industrial Estate,
MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
https: // www.anaconlaboratories.com

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Test Report

Fugitive Emission Report-December-2024

Report No.: ALPL/31122024/7-25			**Date:** 31/12/2024
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/25122024/MON-63-EFE-7/8-1 to 4
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	16/12/2024 & 25/12/2024
Test Started On:-	16/12/2024 & 25/12/2024	**Test Completed On**	17/12/2024 & 26/12/2024
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	09/12/2024	638	16/12/2024	582
FE-2	Haul Road	10/12/2024	576	17/12/2024	682
FE-3	Near Screening Plant	11/12/2024	547	18/12/2024	517
FE-4	Exit Main Gate	12/12/2024	652	19/12/2024	594
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	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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Test Report

Fugitive Emission Report-January-2025

Report No.: ALPL/03022025/7-39			**Date:** 03/02/2025
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/13012025/MON-32-EFE-6/16-1 to 4 ALPL/20012025/MON-36-EFE-6/16-1 to 4
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	13/01/2025 & 20/01/2025
Test Started On:-	14/01/2025 & 21/01/2025	**Test Completed On**	15/01/2025 & 22/01/2025
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	06/01/2025	657	13/01/2025	703
FE-2	Haul Road	07/01/2025	694	14/01/2025	587
FE-3	Near Screening Plant	08/01/2025	483	15/01/2025	509
FE-4	Exit Main Gate	09/01/2025	586	16/01/2025	473
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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Ganway
Deputy Quality Manager

----End of Report----

ORIGINAL TEST REPORT

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Anacon Laboratories

Test Report

Fugitive Emission Report-February-2025

Report No.: ALPL/03032025/7-30			**Date:** 03/03/2025
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/170225/ENV-1/20-17 to 20 ALPL/270225/ENV-1/34-17 to 20
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	17/02/2025 & 27/02/2025
Test Started On:-	17/02/2025 & 27/02/2025	**Test Completed On**	18/02/2025 & 28/02/2025
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	03/02/2025	703	17/02/2025	682
FE-2	Haul Road	04/02/2025	594	18/02/2025	673
FE-3	Near Screening Plant	05/02/2025	482	19/02/2025	394
FE-4	Exit Main Gate	06/02/2025	571	21/02/2025	603
MoEF & CC Norms:		**1200 µg/m³**			

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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FP-34, 35, Food Park, Five Star Industrial Estate,
MIDC Butibori, Nagpur, Maharashtra, India-441 122
+91 8045685558 Email: info@anacon.in
https://www.anaconlaboratories.com

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Test Report

Fugitive Emission Report-March-2025

Report No.: ALPL/02042025/7-39			**Date:** 02/04/2025
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/190325/ENV-4/16-13 to 16 ALPL/250325/ENV-4/42-21 to 24
Sampled by	Anacon Representative Mr. Biplab Giri	**Sample Inward Date:-**	19/03/2025 & 25/03/2025
Test Started On:-	19/03/2025 & 25/03/2025	**Test Completed On**	20/03/2025 & 26/03/2025
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	10/03/2025	694	17/03/2025	573
FE-2	Haul Road	11/03/2025	703	18/03/2025	682
FE-3	Near Screening Plant	12/03/2025	651	19/03/2025	479
FE-4	Exit Main Gate	13/03/2025	562	20/03/2025	682
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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

ORIGINAL TEST REPORT

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982400001910F

Test Report No.: ALPL/30102024/6-7 Dated: 30/10/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/21102024/MON-86-NQ-1/6-1 **Inward Date:** 21/10/2024	**Report Issue Date:** 30/10/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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	**Name of Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 14/10/2024 to 15/10/2024 **Date & time of sampling :** 14/10/2024 & 12:25 pm **Sampling location :** Near Main Gate **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/October-2024/12 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	64.8	56.2	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.- TC129982400001911F

Test Report No.: ALPL/30102024/6-8 Dated: 30/10/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/21102024/MON-86-NQ-1/6-2 **Inward Date:** 21/10/2024	**Report Issue Date:** 30/10/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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	**Name of Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 15/10/2024 to 16/10/2024 **Date & time of sampling :** 15/10/2024 & 12:45 pm **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/October-2024/12 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested** : Ambient Noise		
2.	Quarry-II (Near DG Set)	IS 9989	72.1	63.9	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by

Snehal Raut
Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.- TC129982400001912F

Test Report No.: ALPL/30102024/6-9 Dated: 30/10/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/21102024/MON-86-NQ-1/6-3 **Inward Date:** 21/10/2024	**Report Issue Date:** 30/10/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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	**Name of Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 16/10/2024 to 17/10/2024 **Date & time of sampling :** 16/10/2024 & 1:20 pm **Sampling location : Quarry-II (Near Crusher)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/October-2024/12 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
3.	Quarry-II (Near Crusher)	IS 9989	69.7	54.3	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

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.- TC129982400001913F

Test Report No.: ALPL/30102024/6-10 Dated: 30/10/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/21102024/MON-86-NQ-1/6-4 **Inward Date:** 21/10/2024	**Report Issue Date:** 30/10/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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	**Name of Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 17/10/2024 to 18/10/2024 **Date & time of sampling :** 17/10/2024 & 1:45pm **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/October-2024/12 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
4.	Near Quarry-II (Mining Area)	IS 9989	71.6	62.9	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

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.- TC129982400001914F

Test Report No.: ALPL/30102024/6-11 Dated: 30/10/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/21102024/MON-86-NQ-1/6-5 **Inward Date:** 21/10/2024	**Report Issue Date:** 30/10/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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	**Name of Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 18/10/2024 to 19/10/2024 **Date & time of sampling :** 18/10/2024 & 2:20pm **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/October-2024/12 **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)
I.	Discipline: Chemical	Group: Atmospheric Pollution				Material or Product tested : Ambient Noise	
5.	Quarry-II (Near Screen Plant)	IS 9989:1981	63.1	54.6	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

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.- TC129982400001915F

Test Report No.: ALPL/30102024/6-12 Dated: 30/10/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/21102024/MON-86-NQ-1/6-6 **Inward Date:** 21/10/2024	**Report Issue Date:** 30/10/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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.	**Name of Anacon Representative:** Mr.Biplab Giri **Date of Sampling :** 19/10/2024 to 20/10/2024 **Date & time of sampling :** 19/10/2024 & 2:45 pm **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/October-2024/12 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
6.	Near Quarry-I (Mining Area)	IS 9989	64.7	51.3	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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.

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.- TC129982400002273F

Test Report No.: ALPL/02122024/7-6 Dated: 02/12/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25112024/MON-91-NQ-7/6-1 **Inward Date:** 25/11/2024	**Report Issue Date:** 02/12/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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 :** 15/11/2024 to 16/11/2024 **Time of sampling & duration :** 15/11/2024 & 12:10 pm **Sampling location :** **Near Main Gate** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/November-2024/5 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	67.3	52.8	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002274F

Test Report No.: ALPL/02122024/7-7 Dated: 02/12/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25112024/MON-91-NQ-7/6-2 **Inward Date:** 25/11/2024	**Report Issue Date:** 02/12/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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 :** 16/11/2024 to 17/11/2024 **Time of sampling & duration :** 15/11/2024 & 12:35 pm **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/November-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
2.	Quarry-II (Near DG Set)	IS 9989	71.3	64.2	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Gurway Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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TC-12998

Test Report

ULR No.- TC129982400002275F

Test Report No.: ALPL/02122024/7-8 Dated: 02/12/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25112024/MON-91-NQ-7/6-3 **Inward Date:** 25/11/2024	**Report Issue Date:** 02/12/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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 :** 18/11/2024 to 19/11/2024 **Time of sampling & duration :** 18/11/2024 & 11:40 am **Sampling location :** **Quarry-II (Near Crusher)** **Reference to sampling procedure:** ANtd/7.2/Mon-01 **Reference to sampling plan:** ANtd/7.3/Mon-02/November-2024/5 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Noise		
3.	Quarry-II (Near Crusher)	IS 9989	72.6	56.1	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002276F

Test Report No.: ALPL/02122024/7-9 Dated: 02/12/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25112024/MON-91-NQ-7/6-4 **Inward Date:** 25/11/2024	**Report Issue Date:** 02/12/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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 :** 19/11/2024 to 20/11/2024 **Time of sampling & duration :** 19/11/2024 & 12:45 pm **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/November-2024/5 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Noise		
4.	Near Quarry-II (Mining Area)	IS 9989	72.9	64.1	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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.

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002277F

Test Report No.: ALPL/02122024/7-10 Dated: 02/12/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25112024/MON-91-NQ-7/6-5 **Inward Date:** 25/11/2024	**Report Issue Date:** 02/12/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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 :** 20/11/2024 to 21/11/2024 **Time of sampling & duration :** 20/11/2024 & 1:20 pm **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/November-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
5.	Quarry-II (Near Screen Plant)	IS 9989:1981	58.3	47.2	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002278F

Test Report No.: ALPL/02122024/7-11 Dated: 02/12/2024

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/25112024/MON-91-NQ-7/6-6 **Inward Date:** 25/11/2024	**Report Issue Date:** 02/12/2024
Sample Subgroup : Ambient Noise	**Sample Particulars:** 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 :** 21/11/2024 to 22/11/2024 **Time of sampling & duration :** 21/11/2024 & 1:55 pm **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/November-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
6.	Near Quarry-I (Mining Area)	IS 9989	67.1	54.8	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002576F
Test Report No.: ALPL/02012025/7-26 Dated: 02/01/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/16122024/MON-65-NQ-7/7-1 **Inward Date:** 16/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 09/12/2024 to 10/12/2024 **Time of sampling & duration :** 11:20 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/December-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	68.2	54.7	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gadway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002577F
Test Report No.: ALPL/02012025/7-27 Dated: 02/01/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/16122024/MON-65-NQ-7/7-2 **Inward Date:** 16/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 10/12/2024 to 11/12/2024 **Time of sampling & duration :** 11:55 am & 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/December-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
2.	Quarry-II (Near DG Set)	IS 9989	72.1	63.9	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gorway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002578F
Test Report No.: ALPL/02012025/7-28 Dated: 02/01/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/16122024/MON-65-NQ-7/7-3 **Inward Date:** 16/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 11/12/2024 to 12/12/2024 **Time of sampling & duration :** 12:20 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/December-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
3.	Quarry-II (Near Crusher)	IS 9989	71.3	58.2	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002579F
Test Report No.: ALPL/02012025/7-29 Dated: 02/01/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/16122024/MON-65-NQ-7/7-4 **Inward Date:** 16/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 12/12/2024 to 13/12/2024 **Time of sampling & duration :** 12:40 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/December-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
4.	Near Quarry-II (Mining Area)	IS 9989	69.4	56.7	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002580F
Test Report No.: ALPL/02012025/7-30 Dated: 02/01/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/16122024/MON-65-NQ-7/7-5 **Inward Date:** 16/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 13/12/2024 to 14/12/2024 **Time of sampling & duration :** 12:55 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/December-2024/5 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
5.	Quarry-II (Near Screen Plant)	IS 9989:1981	54.8	46.9	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.- TC129982400002581F
Test Report No.: ALPL/02012025/7-31 Dated: 02/01/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/16122024/MON-65-NQ-7/7-6 **Inward Date:** 16/12/2024 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/01/2025
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 :** 16/12/2024 to 17/12/2024 **Time of sampling & duration :** 1:20 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/December-2024/5 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Noise		
6.	Near Quarry-I (Mining Area)	IS 9989	71.3	64.2	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Gadway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000595F

Test Report No.: ALPL/03022025/7-33 Dated: 03/02/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/20012025/MON-36-NQ-6/6-1 **Inward Date:** 20/01/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/02/2025
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 :** 13/01/2025 to 14/01/2025 **Time of sampling & duration :** 11:35 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/January-2025/1 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
1.	Near Main Gate	IS 9989	67.4	56.2	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000596F

Test Report No.: ALPL/03022025/7-34 Dated: 03/02/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/20012025/MON-36-NQ-6/6-2 **Inward Date:** 20/01/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/02/2025
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 :** 14/01/2025 to 15/01/2025 **Time of sampling & duration :** 11:55 am & 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/January-2025/1 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
2.	Quarry-II (Near DG Set)	IS 9989	71.3	64.7	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by	Signatory	Authorized Signatory
Snehal Raut Technical Manager	Pooja Kathane Technical Manager	Chinmay Garway Deputy Quality Manager

----End of Report----

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Test Report

ULR No.-TC1299825000000597F

Test Report No.: ALPL/03022025/7-35 Dated: 03/02/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/20012025/MON-36-NQ-6/6-3 **Inward Date:** 20/01/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/02/2025
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 :** 15/01/2025 to 16/01/2025 **Time of sampling & duration :** 12:20 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/January-2025/1 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
3.	Quarry-II (Near Crusher)	IS 9989	68.1	57.9	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000598F

Test Report No.: ALPL/03022025/7-36 Dated: 03/02/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/20012025/MON-36-NQ-6/6-4 **Inward Date:** 20/01/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/02/2025
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 :** 16/01/2025 to 17/01/2025 **Time of sampling & duration :** 12:40 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/January-2025/1 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
4.	Near Quarry-II (Mining Area)	IS 9989	71.3	62.8	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwar
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000599F

Test Report No.: ALPL/03022025/7-37 Dated: 03/02/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/20012025/MON-36-NQ-6/6-5 **Inward Date:** 20/01/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/02/2025
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 :** 17/01/2025 to 18/01/2025 **Time of sampling & duration :** 1:20 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/January-2025/1 **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)
I.	**Discipline:** Chemical	**Group:** Atmospheric Pollution			**Material or Product tested :** Ambient Noise		
5.	Quarry-II (Near Screen Plant)	IS 9989:1981	53.9	42.8	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC1299825000000600F

Test Report No.: ALPL/03022025/7-38 Dated: 03/02/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/20012025/MON-36-NQ-6/6-6 **Inward Date:** 20/01/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/02/2025
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 :** 18/01/2025 to 19/01/2025 **Time of sampling & duration :** 2:40 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/January-2025/1 **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)
I.	**Discipline:** Chemical		**Group:** Atmospheric Pollution		**Material or Product tested :** Ambient Noise		
6.	Near Quarry-I (Mining Area)	IS 9989	69.1	58.3	Industrial Area	75	70
					Commercial Area	65	55
					Residential Area	55	45
					Silence Zone	50	40

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

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001126F
Test Report No.: ALPL/03032025/7-24 Dated: 03/03/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL270225/ENV-1/34-21 **Inward Date:** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/03/2025
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 :** 17/02/2025 to 18/02/2025 **Time of sampling & duration :** 11:20 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/February-2025/1 **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	64.9	52.8	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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwal
Deputy Quality Manager

----End of Report----

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+ 91 8045685558 Email : info@anacon.in
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TC-12998

Test Report

ULR No.-TC129982500001127F
Test Report No.: ALPL/03032025/7-25 Dated: 03/03/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL270225/ENV-1/34-22 **Inward Date:** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/03/2025
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 :** 18/02/2025 to 19/02/2025 **Time of sampling & duration :** 11:50 am & 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/February-2025/1 **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	72.6	61.9	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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001128F
Test Report No.: ALPL/03032025/7-26 Dated: 03/03/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL270225/ENV-1/34-23 **Inward Date:** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/03/2025
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 :** 19/02/2025 to 20/02/2025 **Time of sampling & duration :** 12:30 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/February-2025/1 **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	67.3	58.1	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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001129F
Test Report No.: ALPL/03032025/7-27 Dated: 03/03/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL270225/ENV-1/34-24 **Inward Date:** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/03/2025
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 :** 20/02/2025 to 21/02/2025 **Time of sampling & duration :** 12:50 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/February-2025/1 **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	72.4	61.3	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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001130F
Test Report No.: ALPL/03032025/7-28 Dated: 03/03/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL270225/ENV-1/34-25 **Inward Date:** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/03/2025
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 :** 21/02/2025 to 22/02/2025 **Time of sampling & duration :** 1:20 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/February-2025/1 **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	57.1	43.8	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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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Test Report

ULR No.-TC129982500001131F
Test Report No.: ALPL/03032025/7-29 Dated: 03/03/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL270225/ENV-1/34-26 **Inward Date:** 27/02/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 03/03/2025
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 :** 22/02/2025 to 23/02/2025 **Time of sampling & duration :** 1:55 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/February-2025/1 **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	72.4	61.9	Industrial Area	75	70

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Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

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TC-12998

Test Report

ULR No.-TC129982500001555F

Test Report No.: ALPL/02042025/7-33 Dated: 02/04/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-25 **Inward Date:** 25/03/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/04/2025
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 :** 17/03/2025 to 18/03/2025 **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/March-2025/1 **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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Verified by
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Technical Manager

Signatory
Pooja Kathane
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Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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Test Report

ULR No.-TC129982500001556F

Test Report No.: ALPL/02042025/7-34 Dated: 02/04/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-26 **Inward Date:** 25/03/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/04/2025
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 :** 18/03/2025 to 19/03/2025 **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/March-2025/1 **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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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
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Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

----End of Report----

ORIGINAL REPORT

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TC-12998

Test Report

ULR No.-TC129982500001557F
Test Report No.: ALPL/02042025/7-35 Dated: 02/04/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-27 **Inward Date:** 25/03/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/04/2025
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 :** 19/03/2025 to 20/03/2025 **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/March-2025/1 **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

Signatory
Pooja Kathane
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Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500001558F

Test Report No.: ALPL/02042025/7-36 Dated: 02/04/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-28 **Inward Date:** 25/03/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/04/2025
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 :** 20/03/2025 to 21/03/2025 **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/March-2025/1 **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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Remark: - All Results are within Limit as per CPCB Standards for Industrial Area.

Verified by
Snehal Raut
Technical Manager

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavour towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

Anacon Laboratories Pvt. Ltd. Nagpur Lab
FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122
+ 91 8045685558 Email : info@anacon.in
https: // www.anaconlaboratories.com

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001559F

Test Report No.: ALPL/02042025/7-37 Dated: 02/04/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-29 **Inward Date:** 25/03/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/04/2025
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 :** 21/03/2025 to 22/03/2025 **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/March-2025/1 **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

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

Signatory
Pooja Kathane
Technical Manager

Authorized Signatory
Chinmay Garwa
Deputy Quality Manager

----End of Report----

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Anacon Laboratories

TC-12998

Test Report

ULR No.-TC129982500001560F

Test Report No.: ALPL/02042025/7-38 Dated: 02/04/2025

Issued To: **M/s Vijay II Iron Ore Mines** M/s TATA Steel Limited Badajamda-833 221.	**Sample Inward No.:** ALPL/250325/ENV-4/42-30 **Inward Date:** 25/03/2025 **Work Order No.** 4700126596/962-30.05.2024	**Report Issue Date:** 02/04/2025
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 :** 22/03/2025 to 23/03/2025 **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/March-2025/1 **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).

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

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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:

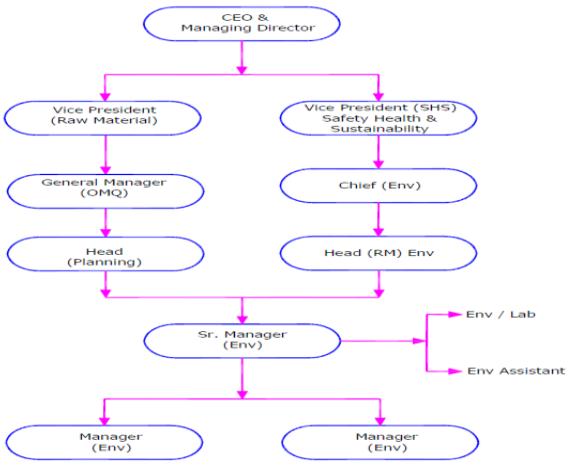
1. The Environment (Protection) Act, 1986.
2. Environmental Impact Assessment Notification, 14th Sep-2006.
3. Wildlife Protection Act 1972
4. Air (Prevention and Control of Pollution) Act, 1981
5. Water (Prevention and Control of Pollution) Act1974
6. Noise Pollution (Regulation and Control Act) 1990
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 October 2024 to 31st March 2025)		
Sl. No.	**Description**	**Amount (Rs.)**
1.	Water Sprinkling to suppress dust	5770100.00
2.	Environmental Monitoring in core and buffer zone	586419.00
3.	Water Tax Payment	132737.00
4.	Plantation and Plantation maintenance	930268.00
5.	Bolder wall development at buffer zone of mines and dry bolder check dam development and maintenance	2148414.00
6.	AMC charge of continuous Ambient Air quality monitoring station	909090.00
7.	Coir mat Installation	180703.00
8.	Garland drains Development	93750.00
9.	De-siltation of check dam at buffer zone of mines	646714.00
10.	Occupational Health check-up (IME & PME)	172225.00
11.	Demand note payment of Site-Specific wildlife conservation plan, Fire management Plan & Chausingha Conservation plan in respect of Vijay II Iron Ore Mine of M/s Tata Steel Limited	2441869.00
12.	Fireline development around lease boundary	971916.00
	Total	**14984205.00**