

Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002 Email: ro.ranchi-mef@gov.in

MD/ENV/ 883 / 103 / 2023 Date: 22.11.2023

- Ref: I. Environmental Clearance letter no. J-11015/104/2011. IA. II (M) dated: 06.09.2021. II. Environmental Clearance letter no. J-11015/104/2011. IA. II (M) dated: 29.10.2021.
- Sub: Half-yearly compliance status report of Environmental Clearance conditions for the period April 2023 September 2023 in respect of Noamundi Iron 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 Noamundi Iron Mine, M/s Tata Steel Limited for the period from April 2023 – September 2023.

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

Among

Chief (Mine planning & Projects), OMQ

Encl. : As above

- Copy to : The Chairman, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata 700107 (W. B.)
 - : The Member Secretary, State Pollution Control Board, T.A. Division (Ground Floor), H.E.C. Dhurwa, Ranchi 834004 (Jharkhand)

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

ENVIRONMENTAL CLEARANCE NO. J-11015/104/2011-IA. II (M) DATED 06.09.2021 & 29.10.2021 (Period of Compliance: April 2023 to September 2023)

SI.	Conditions	Compliance
No.	· · · · · ·	
	ecific conditions	
1.	Implementation of the revised remediation plan, natural resource augmentation plan (NRAP) and community resource augmentation plan (CRAP) which was submitted by PP after the EAC meeting.	Implementation of the revised remediation plan, natural resource augmentation plan (NRAP) and community resource augmentation plan (CRAP) has been initiated. Various activities such as development of safety zone plantation, Miyawaki plot, fruit bearing plots in village area and rainwater harvesting ponds are in progress. Detailed status is shared (Annexure-I)
2.	Implementation of the environmental monitoring plan with emphasis on air quality, noise and vibration, water quality as well as soil degradation to be submitted.	The implementation of the environmental monitoring plan with emphasis on air quality, noise and vibration, water quality as well as soil degradation is enclosed (Annexure-II)
3.	Wildlife conservation plan be augmented with additional points revised in the light of guidance given by EAC during the meeting with more emphasis on wildlife conservation rather than creating infrastructure which cannot be controlled by project proponent.	Noted. It will be done accordingly in consultation with forest department officials.
4.	Public hearing concerns must be addressed as committed.	All the concerns raised in Public Hearing are being addressed. The implementation of action plan has been initiated. Detailed status is enclosed (Annexure-III)
5.	The EMP cost should include plantation within the mine lease area whereas plantation outside the mine lease area will be given to NRAP cost.	Noted. All the cost involved for plantation within mine lease area has been included in EMP cost and plantation outside the mine lease area has already been included in NRAP cost.
6.	No mining activities will be allowed in the forest area for which forest clearance is not available.	Noted and shall be abided.
7.	As the public hearing has been carried out for the entire project area and PP has paid the NPV for entire forest land involved in the project area, PP after taking stage- II Forest Clearance for remaining area i.e. 391.51 Ha; may again approach the Ministry for undertaking mining in the remaining area with the proper mining plan.	After the grant of stage II FC for remaining area of 391.51 Ha, we shall approach the Ministry with proper mining plan for undertaking mining in the remaining area.
B. Ge	eneral Conditions	
I. Sta	tutory Compliance	
(1)	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Noted.
(2)	The Project proponent complies with all the statutory requirements and judgment of Hon'ble	A payment of Rs 56,96,51,093.00/- is made as per demand notice no. 1986/M dated 12.09.2017. The Project

	Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Others before commencing the mining operations.	Proponent is complying with all the statutory requirements and judgements of Hon. Supreme Court dated the 2nd August 2017 in writ petition (civil) no. 114 of 2014 in the matter of common cause vs union of India and Others.
(3)	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Others.	A payment of Rs 56,96,51,093.00/- is made as per demand notice no. 1986/M dated 12.09.2017. The Project Proponent is complying with all the statutory requirements and judgements of Hon. Supreme Court dated the 2nd August 2017 in writ petition (civil) no. 114 of 2014 in the matter of common cause vs union of India and Others.
(4)	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.	Not applicable. There are no protected areas/ eco- sensitive zones within 10 km of the mine lease area.
(5)	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.	Noamundi Iron Mine of TATA Steel has restricted its operations in diverted forest and non-forest area as per approvals obtained. The mine has 1160.06 ha lease area, out of which 762.42 ha is forest land & rest is non-forest land. Out of 762.42 ha, forest land diverted for mining is 370.92 ha vide letter no. 8-279, 1985 FC (Pt) dated 4th Sept., 2014 & for rest 391.51 ha (including safety zone), forest diversion proposal has already been applied & is at advanced stage of clearance.
(6)	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.	Noamundi Iron Mine of TATA Steel has restricted its operations in diverted forest and non-forest area as per approvals obtained. The mine has 1160.06 ha lease area, out of which 762.42 ha isforest land & rest is non forest land. Out of 762.42 ha, forest land diverted for mining is 370.92 ha vide letter no. 8-279, 1985 FC (Pt) dated 4 th Sept., 2014 & for rest 391.51 ha (including safety zone), forest diversion proposal has already been applied & is at advanced stage of clearance. Complied Attachment: NA
(7)	The PP shall adhere to the provision of the Mines	Noted and shall be abided.

(7)	The PP shall adhere to the provision of the Mines	Noted and shall be abided.
	Act, 1952, Mines and Mineral (Development &	
	Regulation), Act, 2015 and rules & regulations	
	made there under. PP shall adhere to various	
	circulars issued by Directorate General Mines	
	Safety (DGMS) and Indian Bureau of Mines from	
	time to time.	

	permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	mining and allied activities. No ground water withdrawal is required for this project. Approval for drawing 10.6 MCM water on annual basis (~29000 KLD) from Baitarini river vide letter no: - 1/PMC/VIVIDH/975/2020-514 dated 24.08.2021 has been granted by Water Resources Department, GoJ. Subsequently an agreement was signed on 20.10.2021
(11)	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been	with the Executive Engineer, Water ways Division Chaibasa. A copy of EC letter was submitted to local panchayats i.e Noamundi, Balijore, Diriburu, Kadajamda and Mahudi panchayat. (Annexure-IV)
(12)	received while processing the proposal. State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar'sOffice for 30 days	Noted.
(13)	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	Details of Environment Clearance with regard to Noamundi Iron Mine were published both in English (Avenue Mail) and Hindi (Prabhat Khabar) in local newspapers on 12.09.2021. The copy of the newspaper advertisement was sent to the Regional Office, MoEF&CC, Ranchi with letter no: MD/ENV/210/97/2021 dated 13.09.2021 (Annexure-V)
(14)	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In	Noted.

	only be carried out after transfer of EC as per	
	provisions of the para 11 of EIA Notification,	
	2006 as amended from time to time.	
II. Ai	r quality monitoring and preservation	
(15)	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B- 29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places likeoffice building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site	Three continuous ambient air quality monitoring stations are installed in the core zone (two nos.) and buffer zone (one no.) of mine lease area. Various parameters such as PM10, PM2.5, SOx, NOx & CO are being monitored as per guidelines. Manual ambient air quality stations are installed at prominent places such as Hospital, Mega Centre, Bottom bin, etc. and monitoring of the NAAQS parameters is done on regular basis. Monitored data is being displayed using electronic display board in front of the main gate of mines site as well as public domain. Average air quality data is enclosed as (Annexure VI) \mathcal{A} are again quality data is enclosed as (Annexure VI) \mathcal{A} and \mathcal{A} are again quality data is enclosed as (Annexure VI) \mathcal{A} and \mathcal{A} are again quality data is enclosed at (Annexure VI) \mathcal{A} and \mathcal{A} are again quality data is enclosed at (Annexure VI) \mathcal{A} and \mathcal{A} and \mathcal{A} are again quality data is enclosed at (Annexure VI) \mathcal{A} and \mathcal{A} and \mathcal{A} are again quality data is enclosed at (Annexure VI)
(16)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water- soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board	 Fugitive dust emissions from all the sources are being controlled regularly on daily basis. A network of fixed water sprinklers has been laid on permanent haul roads. Two mobile water tankers of large capacity namely 50 KL which can cover the entire width of the haul road has been commissioned. All feed hoppers where ore is unloaded and all transfer chutes have been provided with dry-fog dust suppression system. Mist cannons have placed at strategic points to prevent and control of fugitive dust emission. Ambient air quality conforms to the CPCB norms. Fust control measures at Noamundi Iron Mine

III. V	III. Water quality monitoring and preservation		
(17)	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area	As per approved mining plan, the mining operations are restricted above the ground water table. The ultimate working depth is 480 mRL while the Ground water table is at 478 mRL. Hence, the mine workings will never intersect ground water during the entire life of the mine. However, in case of working below ground water table prior approval for CGWA shall be taken.	
(18)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre- mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board.	Regular monitoring of flow rate of springs and nallahs is carried out and records are maintained. Streams (Balijhore nallah and Jojo nallah) which are present in and around the mine lease area shall not be disturbed. Ground water quality and Ground water level are being monitored periodically in and around the lease area through a network of dug wells and piezometric borewells. Dug wells are located in villages adjacent to the mine lease area while piezometric borewells are located within the mine lease area. All the monitored data is being submitted to various agencies on six monthly basis along with half yearly EC compliance reports.	
(19)	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six- monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board.	Ground water quality and Ground water level are being monitored periodically in and around the lease area through network of dug wells and piezometric borewells. All the monitored data is being submitted on six monthly basis along with Half yearly EC compliance reports to the Regional Office of the Ministry, CGWA/CGWB and Jharkhand State Pollution Control Board (Annexure VII)	
(20)	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and	Water quality monitoring of perennial nallahs (upstream and downstream) present inside and outside the mine lease area is done regularly (Annexure VIII) All the water parameters are within the stipulated limits. No obstruction or alteration will be made to water bodies during mining operations.	

	maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a- vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six- monthly basis.	The monitoring is carried out four times in a year and monitoring reports are submitted to Regional Office of Ministry of Environment, Forest and Climate Change, Central Ground Water Authority and Regional Director, Central Ground Water Board, Jharkhand State Pollution Control Board and Central Pollution Control Board as part of EC compliance reports.
(21)	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	There is no wastewater discharge from the mine and mineral processing plant, i.e entire unit is "Zero Discharge Unit". After mineral processing (wet plant) the water is collected in slime pond, where decanted water from the slime dam is completely recycled & reused in the beneficiation plant and slime is recovered and stored for future use. Thus no water is being discharged to environment. The environmental monitoring data is regularly uploaded on the company website as a part of six-monthly EC compliance reports. The link for the same is attached here (https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/). In addition to this all the monitored data is shown in display board present at the entrance gate.

(22) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.

Rainwater harvesting (RWH) ponds and ground water recharge structures have been constructed and approved by the Ground Water Directorate, Jharkhand, Ranchi. The capacity of RWH ponds is 19,785 cum. The catchment area of the RWH pond complex is approx. 117 Ha hence it has been calculated that the rainwater harvesting potential of the RWH pond structure is approx. 12,50,000 cum/annum.



RWH structure for ground water augmentation in the area

Approval from Ground Water Directorate, Water Resources Dept. Jharkhand for RWH pond structure was received vide letter no. GWD 317/Ranchi, dated 14th Jun, 2012.

Further, the rainwater collected in the mine pits are allowed to be collected in the lowest level sumps to augment the ground water resources gradually. Various RWH structures in the form of Check Dams, Saucer ponds, Gabion Structures, Trenches and contour are also made based on recommendation in available area.



RWH structure for ground water augmentation in the area

To augment the ground water level of surrounding village areas new additional ponds are constructed in buffer zone of Noamundi mine leases.



Newly constructed ponds in surrounding villages

(23)	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	A 30 KLD CETP along with Oil & grease pit with collection system has been installed at HEMM maintenance area. Oil is separated by gravitational technique and solids settle by sedimentation. Clear water flows to next chamber after passing through baffle wall. Clear water is again re-used. Water quality analysis is done on regular basis.
		Flam shoet of 2014 D. CETD
		Flow sheet of 30KLD CETP Two Effluent Treatment Plant (ETP) of 10 KLD each
		are also installed & working smoothly in mine lease area of Noamundi. Copy of monitoring reports are enclosed as (Annexure-IX)
(24)	The water balance/ water auditing shall be carried	Sewage & Effluent Treatment Plant at Noamundi Noted. Evaluation of water consumption is being carried
	out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.	out and suitable measures for reducing water consumption have been identified such as commissioning of paste thickener etc. There is zero waste-water discharge by the mine and it will be maintained in the future as well. Optimization of the water consumption will be done to reduce the specific water consumption year-on-year.

(25)	The peak particle velocity at 500m distance or	Monitoring of peak particle velocity (ppv) is done after	
-	within the nearest habitation, whichever is closer shall be monitored periodically as per applicable	every blast as per DGMS guidelines and the reports are being maintained.	
	DGMS guidelines.		
		The sample report of vibration monitoring done at Noamundi is given herewith:	
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(26)	The illumination and sound at night at project sites	The illumination & sound has been done in such a way	
	disturb the villages in respect of both human and animal population. Consequent sleeping disorders	that the villagers are not disturbed. In addition to this we are planning to install noise	
	and stress may affect the health in the villages	barriers around the railway siding boundary to	
	located close to mining operations. Habitations have a right for darkness and minimal noise levels	significantly reduce the noise propagation outside the mine premises.	
	at night. PPs must ensure that the biological		
	clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and		
	keeping the noise levels well within the		
(07)	prescribed limits for day/night hours		
(27)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work	Adequate measures are taken for control of work noise levels such as all HEMMs have acoustic cabins with air	
	environment. The workers engaged in operations	conditioners and the exhaust manifold have silencers	
	of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working	Noisy operations have been identified and persons engaged in such operations are provided with ear	
	in dusty areas shall be provided with protective	plugs/muffs.	
	respiratory devices along with adequate training, awareness and information on safety and health	All persons working in dusty areas are provided with protective dust masks.	

aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	Adequate training, awareness and information on safety and health aspects are provided on regular basis.
V. Mining plan	
 (28) The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name. 	Total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure, etc. shall be adhered as per the approved mining plan.
(29) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	This is not applicable in this financial year as it is an operational mine.
(30) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis- a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.	Noted. Land-use of the mine lease area shall be governed as per the approved mining plan. Excavation, backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area are governed as per approved mining plan. Report on plantation activities is being submitted regularly to the Board along with monthly reports.
VI. Land reclamation	
(31) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept	Over burden is stacked at the earmarked places only. The slopes of the OB dumps are terraced, and the overall height width and slope angle is maintained as per

	active for a long resid of the The sheet 1	annuoved Mining Disc
	active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	approved Mining Plan. Generation of topsoil is very minimal because no fresh area is being broken for mining and the top soil generated, is being kept at the earmarked site(s) only inside the mining lease area and is being subsequently used for plantation & other vegetation & grassing activities. The inactive dump slopes are vegetated with native species, vetiver grass and coir matting is done for better slope stabilization.
		Vetiver grass Coir matting
(32)	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	Reject/waste is stacked at the earmarked places only. The slopes of the dumps are terraced, and the overall height width and slope angle is maintained as per approved Mining Plan.
(33)	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	Currently two Over Burden (OB) dumps are made as per plan at earmarked area which are progressively stabilized by native species plantation and grass vegetation as per direction of MoEF&CC.
		<image/>

- (34) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners/ Bentonite etc. shall be undertaken for stabilization of the dump.
- (35) The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- Catch drains, settling tanks and siltation ponds of (36)appropriate size shall be constructed around the working, mineral mine yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be desilted regularly, particularly after monsoon season, and maintained properly

The inactive dump slopes are vegetated with native species, vetiver grass and coir matting is done for better slope stabilization.

The dump mass is consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, laying of coir mat along with grass seeding is practiced.



Slope stability study has been done for dumps at Noamundi Iron Mine by CSIR-Central Institute of Mining and Fuel Research, Dhanbad. The report has been submitted to Regional Office of MoEF&CC vide letter no: MD/ENV/303/103/2021 dated 19.11.2021.

Garland drains with settling pits have been constructed all along the OB dumps. Settling pits have also been provided to arrest the silt flow from area. The desiltation of these check dams settling pits are done regularly and properly maintained. Sedimentation pits have been constructed at the corners of the garland drains to take care of run off of water even during peak rain fall and they are being de-silted regularly before and after the monsoon. Garland drains, settling tanks and Check dams had been constructed both around the mine pit and over burden dump(s).



garland drains, Settling pits at mine



De-siltation of slime & check dams before monsoon.

(37)	Check dams of appropriate size, gradient and	Check dams of appropriate size, gradient and length are
	length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	constructed along with sedimentation pits as per progressive mine closure plan.
(38)	The top soil, if any, shall temporarily be stored at	Generation of topsoil is very minimal because no fresh
(38)	earmarked sile(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation	area is being broken for mining and the top soil generated, is being kept at the earmarked site(s) only inside the mining lease area and is being subsequently used for plantation & other vegetation & grassing activities.
VII	purpose Miscellaneous	
(39)	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Lador Control (PLIC) cartificate for all	Image: Statistical contracts Image: Statisticontent Image
	Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	00 processing (n) mission XM XM 2000 ± 300 Service Decase (V) Mission 1 ± 0.03 0.02 Service Decase (V) Mission 2.45 0.02 This KCC entropic to system generatively the system student service which is a year of processing of the student service mission of the system service mission of the service mission of the service mission of the system service mission of the service mission

(40)	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other	A network of fixed water sprinklers has been laid on permanent haul roads. Mobile water tankers of large capacity namely 50 KL which can cover the entire the entire width of the haul road has been commissioned.
	areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions	Mist type dust suppression measures
		Closed conveyor used in mineral transport
		Dust Extraction system is present at Primary crusher.
VIII	Green Belt	
(41)	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from	All feed hoppers where ore is unloaded and all transfer chutes have been provided with dryfog dust suppression system. Mist cannons have placed at strategic points to prevent and control of fugitive dust emission. The beneficiated ore from processing plant to railway sidings being
	windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	transported through covered conveyors only.



klers in Noamundi mines





ed in mineral transport

(42)	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Safety zone of 7.5 meters all along the mine lease boundary is maintained with plantation of saplings.
	those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	Kurtha dump. In addition to this Avenue plantation outside the mine lease is also carried out.
		Plantation on dumps
(44)	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt. and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation	The site specific wildlife conservation plan (SSWLCP) has been approved by Chief Wildlife Warden on 28.08.2020. The impact of mining project on wildlife of the study area and detailed mitigative measures are part of this plan. The total approved cost for implementation of SSWLCP is Rs.25.26 crores (to be spent over a 10- year period). Site specific wild life conservation plan and its approval has been submitted to the Ministry and its Regional Office.

status (annual) shall I	be submitted to the Regional	
Office of the Ministry		
IX. Human Health Enviro		
 (45) The Project Prop Occupational Health as Periodical medical engaged in the mining guidelines. The rec properly. PP shall health check-ups in r having ailments lill smoking, etc. The ch once in six month preventive measures 	onent shall appoint an Specialist for Regular as well examination of the workers g activities, as per the DGMS cords shall be maintained also carryout Occupational espect of workers which are ke BP, diabetes, habitual teck-ups shall be undertaken s and necessary remedial/ be taken. A status report on to MoEFCC Regional Office	 Noamundi hospital is well-equipped with an Occupational Health Center OHS center employs a full-time occupational health specialist. Health of the employees through audiometry, x-ray, pathology, ophthalmology, lung-function test, etc monitored. Some of the best practices related to occupational health adopted in mine are: Employees' health check-up under Wellness @ workplace program Health awareness classes on weekly basis for shop floor employees Officers' health check-up on yearly basis for lifestyle disease Counseling to high blood pressure, sugar cholesterol, hypertension employees through medical board
commitment to work their mining activitie Assessment (HRA) hazards and assess th and determine appro- protect the health an nearby community. T accurate and systema HRA for neighborho Health Problems like Anaemia, Diarrhoea respiratory infections proponent shall also o the nearby communit Personal Hygiene, Ha in open, Women Hea Sanitary Napkins), ha use. The Proponent s	ponent must demonstrate towards 'Zero Harm' from s and carry out Health Risk for identification workplace heir potential risks to health opriate control measures to d wellbeing of workers and The proponent shall maintain tic records of the HRA. The bod has to focus on Public Malaria, Tuberculosis, HIV, in children under five, due to bio mass cooking. The create awareness and educate y and workers for Sanitation, and washing, not to defecate alth and Hygiene (Providing totacco and alcohol hall carryout base line HRA workers and thereafter every	 The company's commitment in the area of Health & Safety is well supported by implementation of: Safety Principles & Occupational Health Policy Occupational Health & Safety Management System (ISO 45001:2018). Hazards in work place are identified as a part of occupational health policy and appropriate control measures are in place to protect the health and well being of workers. Various awareness programs regarding health, sanitation etc. have been conducted with the help of Tata Steel Rural Development Society(TSRDS). The health related initiatives in place are- Mega health camps, Malaria parasite control programme, Cataract surgery camp, Prenatal care MANSI project: Reducing infant and maternal mortality Providing financial assistance and waivers for needy patients, on a case-to-case basis Preventing and treating communicable diseases like malaria, tuberculosis and HIV / AIDS Treating and rehabilitating persons with disabilities RISHTA project: working on adolescent and reproductive sexual health issues

(47)	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminum, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).	 Noamundi hospital is well-equipped with an Occupational Health Center OHS center employs a full-time occupational health specialist. Health of the employees through audiometry, x-ray, pathology, ophthalmology, lung-function test, etc monitored. Pre-placement medical examination and periodical examination of the workers engaged is being conducted & record maintained. The schedule of Periodical Medical Examination is once in every 3 years for the employees of age more than 45 years. Some of the best practices related to occupational health adopted in mine are: Employees' health check-up under Wellness @ workplace program Health awareness classes on weekly basis for shop floor employees Officers' health check-up on yearly basis for lifestyle disease Counseling to high blood pressure, sugar cholesterol, hypertension employees through medical board Observation of important health days like World No Tobacco day, AIDS day, Heart day, Diabetic day etc Display of calorie chart in canteens alongside the menu No adverse cases have been found till date.
(48)	The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 - 24.9, (b) the Final Chest X-Ray compared with the	All the performance indicators for workers during IME and PME are maintained. In addition to health check-ups, health awareness classes on weekly basis for shop floor employees, counselling to high blood pressure, sugar, cholesterol etc is done.
	base line X-Ray should not show any capacities ,{c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced	No adverse cases have been found till date.

	Expiratory Volume in one second (FEV1),Forced	
	Vital Capacity (FVC), and the ratio) unless they	
	are smokers which has to be adjusted, and the	
	effect of age, (d) their hearing should not be	
	affected. As a proof an Audiogram (first and last	
	need to be presented}, (e) they should not have	
	developed any Persistent Back Pain, Neck Pain,	
	and the movement of their Hip, Knee and other	
	joints should have normal range of movement, (f)	
	5	
	they should not have suffered loss of any body	
	part. The record of the same should be submitted to	
	the Regional Office, MoEF&CC annually along	
	with details of the relief and compensation paid to	
	workers having above indications.	
(49)	The Project Proponent shall ensure that Personnel	All the personnel working in dusty areas are provided
	working in dusty areas should wear protective	with protective respiratory devices such as masks and
	respiratory devices and they should also be	also provided adequate training and information on
	provided with adequate training and information	safety and health aspects.
	on safety and health aspects.	,
(50)	Project Proponent shall make provision for the	Township has been developed for workers with all the
	housing for workers/labors or shall construct labor	adequate facilities such as hospital, schools, STP etc.
	camps within/outside (company owned land) with	acquate facilities such as hospital, schools, 511 etc.
	necessary basic infrastructure/ facilities like fuel	
	for cooking, mobile toilets, mobile STP, safe	
	drinking water, medical health care, crèche for kids	
	etc. The housing may be provided in the form of	
	temporary structures which can be removed after	
	the completion of the project related infrastructure.	
	The domestic waste water should be treated with	
	STP in order to avoid contamination of	
	underground water.	
(51)	The activities proposed in Action plan prepared for	Shall be complied.
	addressing the issues raised during the Public	
	Hearing shall be completed as per the budgetary	
	provisions mentioned in the Action Plan and	
	within the stipulated time frame. The Status report	
	on implementation of action plan shall be	
	submitted to the concerned Regional office of the	
	Ministry along with District Administration.	
X C	orporate Environment Responsibility (CER)	
(52)	The activities and budget earmarked for Corporate	All the activities proposed during Public Consultation are
(32)	Environmental Responsibility (CER) as per	being implemented. The detailed status (Year-1
	Ministry's O.M No 22-65/2017-IA. II (M) dated	compliance) shall be shared in next compliance report.
	01.05.2018 or as proposed by EAC should be kept	comphance, shar of shared in next comphance report.
	in a separate bank account. The activities proposed	
	for CER shall be implemented in a time bound	
	manner and annual report of implementation of the	
	same along with documentary proof viz.	
	photographs, purchase documents, latitude & longitude of infrastructure developed & road	

· · · · · ·		
	constructed needs to be submitted to Regional	
	Office MoEFCC annually along with audited	
	statement.	
(53)	Project Proponent shall keep the funds earmarked	Funds allocated for environmental management are spent
	for environmental protection measures in a	only for environment related purposes and not diverted to
	separate account and refrain from diverting the	any other purpose. Expenditure details of environmental
	same for other purposes. The Year wise	protection measures are reported to MoEF&CC and its
	expenditure of such funds should be reported to the	Regional Office every year during half yearly
	MoEF&CC and its concerned Regional Office.	compliance submission.
-	fiscellaneous	
(54)	The Project Proponent shall prepare digital map	The digital processing of entire lease area is being carried
	(land use & land cover) of the entire lease area	out regularly. The current land use pattern is made by
	once in five years purpose of monitoring land use	M/s Geo Consultants Pvt. Ltd. the authorized agency by
	pattern and submit a report to concerned Regional	ORSAC, Bhubaneshwar.
	Office of the MoEF&CC.	
(55)	The Project Authorities should inform to the	Not applicable. Noamundi is an operational Iron mine of
	Regional Office regarding date of financial	Tata Steel Ltd from last several decades. Thus financial
	closures and final approval of the project by the	closure & it's approval is not applicable.
	concerned authorities and the date of start of land	
	development work.	
(56)	The Project Proponent shall submit six monthly	Six monthly compliance reports are being submitted
	compliance reports on the status of the	regularly on the status of implementation of the
	implementation of the stipulated environmental	stipulated environmental safeguards to the MoEF&CC,
	safeguards to the MOEFCC & its concerned	its Regional Office, Central Pollution Control Board and
	Regional Office, Central Pollution Control Board	Jharkhand State Pollution Control Board.
	and State Pollution Control Board.	
(57)	A separate 'Environmental Management Cell' with	A separate environmental management cell is in place
	suitable qualified manpower should be set-up	with people having relevant qualification on
	under the control of a Senior Executive. The	environmental science. Organization has adequate
	Senior Executive shall directly report to Head of	environmental reporting system for adequate decision
	the Organization. Adequate number of qualified	making.
	Environmental Scientists and Mining Engineers	
	shall be appointed and submit a report to RO,	
	MoEF&CC.	
(58)	The concerned Regional Office of the MoEF&CC	Full cooperation shall be extended to the officers in
	shall randomly monitor compliance of the	furnishing the requisite data/ information/ monitoring
	stipulated conditions. The project authorities	reports.
	should extend full cooperation to the MoEF&CC	
	officer(s) by furnishing the requisite data/	
	information/ monitoring reports.	
	1	
(59)	After this road is brought into utilization for	It shall be complied after the road is brought into
	transport, 6 monthly monitoring report as well as	utilization. Currently all the finished iron ore product is
	videography of the transportation undertaken to be	transported to end-users through Noamundi captive
	submitted to Ministry.	railway siding.
(60)	The project proponent is advised to undertake a	Videography of the 10.5 km road has been completed. It
	videography of 10.5 km road for those who are	is being shared herewith through One-drive link.
	already using this road for transportation of the	It is requested to click on the link below to view the

	mineral other than M/s Tata Steel Limited from their respective mines to Jamda site and submit to the Ministry for information.	video. Access has been provided to- <u>ro.ranchi-</u> <u>mef@gov.in</u> <u>Video Noamundi Jamda.mp4</u>
(61)	It was also mentioned by the project proponent that they are willingly accepting not to use Jamda siding and this will stay till the information on Jamda transportation available with the Ministry and within 5 years `project proponent must bring conveyer system till railway siding and stop using road.	Jamda siding shall not be used for transportation of mineral by Noamundi Iron Mine of Tata Steel Limited.

ANNEXURE-I

Mine
i Iron I
ו Plan: Noamundi
Plan:
of Remediation
Status of

SI. No.	Description	Area/Department	Qty	Status
1	Wind-shield cum Noise barrier	Bottom Bin	1500 mtr	PO placement is in progress
2	Greenery	NIM	16 Ha	Continuous work and plantation is in progress. Nearly 12152 saplings were planted in FY:23. And 11276 Plantation is done in FY'24.
ю	Miyawaki Plot	Win	1 Ha	This is a continuous job. Plantation is done for an area of 0.25 ha in FY'24.
4	PMCP measures	MIN	Lot	PMCP measures are routine jobs and are in progress

Status of NRAP: NIM

SI. No	Description	Area/Department	Qty	Status
-1	Fruit-bearing trees plot	Hesapi, Dwarsahi	40 acres	 Land identification done and NOC received for 25 Acres. Agreement executed with Land owners at Dwarsahi. Work to begin in upcoming months.
2	Avenue Plantation	Mahudi to Bhangaon Noamundi to Kutingta Noamundi to Jamda	15 km	1. It is a routine and work is in progress
m	Construction & Maintenance of Rain- water harvesting pond structures	Noamundi Basti, Mahudi, Meralgara, Deogaon	8 nos	1. Sites identified, and NOC received 2. Work completed at 11 locations at Noamundi basti- 03, Meralagara- 01, Deogaon- 03 and Dudhvila-01, Padapahar -01, Kadajamda - 01& Gundijor-01.

CRAP Status: NIM

SI. No.	Description	Area/Department	Qty	Status
1	Solar lighting	Mahudi, Sialjoda, Meralgara, Balijodi	23 nos	Meralgara-4, Sialjora-10, Sialjora-10, Mahudi-19, Sarbil-8 and Noamundi Basti-25 and others are in progress.
2	Solar-powered bore-well in schools	Mahudi, Sialjoda, Meralgara	3 nos	Sialjoda- 01, others work are in progress and will be executed soon.
3	Installation of RO plants in surrounding schools	Mahudi, Noamundi Basti, Sarbil, Bhangaon, Lepang, Jampani	7 nos	Mahudi- 02 and other works will be executed soon.
4	Sponsoring Eye-camps in collaboration with Shankar Netralaya	Jaganathpur, Sarbil	2 camps	Eye camp organised in Dec'22
5	Lift-irrigation	Kumirta	1 no	 Site identification done NOC is in progress
9	Construction of check-dams along with feeder canals	Kutingta, Kotgarh	2 nos	 Site identification done NOC is in progress
7	Construction of Munda /Manki Bhavan	Dukasai, Baljodi, Gundijoda, Meralgara	4 nos	Work completed in Meralgara Final finishing is under progress in Gundijoda and Baljodi

ANNEXURE-II



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Test Report

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Ambient Air Quality Monitoring Report-April-2023

Report No.: AN/AAQ	ort No.: AN/AAQ/TS-NIM/2023/3-1		Date: 03/05/2023	
Name and Address of	M/s Noamundi	Iron Mine	W. O. No.	4700098928/962
Industry:-	(M/s TATA Ste	eel Limited)	W. O. date:	22.03.2022
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-		V-84-1/NIM-CZ/AAQMS-1 ENV-84-2/NIM-CZ/AAQMS-2
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	10, 17 ,24 April-2023 & 2-May-2023	
Test Started On:-	10, 17 ,24 April-2023 & 2- May-2023	Test Completed On:-	10, 17 ,24 April-2023 & 3-May-2023	
Sampling Procedure	ANtd/7.2/Mon-01			

Sr. No.	LOCATION	Date of sampling	PM10 µg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)	
,		04/04/2023	52.6	21.6	12.4	17.9	BDL (DL - 0.5)
		07/04/2023	54.1	23.8	11.6	16.3	BDL (DL - 0.5)
1.0		11/04/2023	48.7	16.9	8.7	15.7	BDL (DL - 0.5)
AAQMS-1	Near WTP	14/04/2023	52.8	21.4	12.1	21.6	BDL (DL - 0.5)
ingino-1	INCAL VVII	18/04/2023	56.3	23.7	11.9	24.1	BDL (DL - 0.5)
		21/04/2023	49.5	16.3	8.4	17.6	BDL (DL - 0.5)
		25/04/2023	51.9	18.2	9.3	16.4	BDL (DL - 0.5)
		28/04/2023	53.6	21.8	9.7	17.1	BDL (DL - 0.5)
	Monthly Average V	alue	52.5	20.5	10.5	18.3	BDL (DL - 0.5)
1		04/04/2023	51.6	18.3	7.9	17.2	BDL (DL - 0.5)
		07/04/2023	48.3	16.7	8.4	16.1	BDL (DL - 0.5)
	1	11/04/2023	53.8	21.6	11.3	18.7	BDL (DL - 0.5)
AAQMS-2	Near Hospital	14/04/2023	56.2	24.9	12.8	21.4	BDL (DL - 0.5)
nnQin0-2		18/04/2023	52.9	18.7	9.3	17.2	BDL (DL - 0.5)
		21/04/2023	48.1	16.2	7.6	16.9	BDL (DL - 0.5)
		25/04/2023	51.3	17.1	8.4	17.3	BDL (DL - 0.5)
		28/04/2023	49.1	16.8	6.8	16.2	BDL (DL - 0.5)
	Monthly Average Va	lue	51.4	18.8	9.1	17.6	BDL (DL - 0.5)

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 CPCB Standards.

Verified by

Snehal Raut

Doputy Technical Manager

----End of Report----

Authorized Signatory

Gamp

Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

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Ambient Air Quality Monitoring Report-April-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	4	Date: 03/05/2023		
Name and Address of	M/s Noamundi	Iron Mine	W. O. No.	4700098928/962	
Industry:-	(M/s TATA Ste	,		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/21042023/ENV-84-3/NIM-CZ/AAQ-3 an ALPL/21042023/ENV-84-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	10, 17 ,24 April-2023 & 2-May-2023		
Test Started On:-	10, 17 ,24 April-2023 & 2- May-2023	Test Completed On:-	10, 17 ,24 April-2023 & 3-May-2023		
Sampling Procedure	ANtd/7.2/Mon-01		1. 1		

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM25 µg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)	
		04/04/2023	54.7	18.3	11.4	23.7	BDL (DL - 0.5)
		07/04/2023	56.3	21.6	12.7	26.1	BDL (DL - 0.5)
		11/04/2023	61.8	23.9	11.6	24.3	BDL (DL - 0.5)
AAQMS-3	MRSS	14/04/2023	58.2	19.3	9.4	18.7	BDL (DL - 0.5)
~		18/04/2023	54.6	18.1	6.8	16.2	BDL (DL - 0.5)
		21/04/2023	63.9	23.6	11.7	21.8	BDL (DL - 0.5)
		25/04/2023	58.3	21.9	9.3	18.3	BDL (DL - 0.5)
		28/04/2023	61.7	19.2	8.4	16.8	BDL (DL - 0.5)
1	Monthly Average	Value	58.7	20.7	10.2	20.7	BDL (DL - 0.5)
		04/04/2023	57.3	23.6	11.4	18.7	BDL (DL - 0.5)
		07/04/2023	61.9	26.1	12.8	23.6	BDL (DL - 0.5)
		11/04/2023	57.2	18.7	9.1	17.2	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	14/04/2023	54.8	16.9	8.7	16.7	BDL (DL - 0.5)
	Dettent bit	18/04/2023	62.4	21.4	11.3	21.8	BDL (DL - 0.5)
1		21/04/2023	58,5	18.2	8.6	16.4	BDL (DL - 0.5)
		25/04/2023	57.1	17.8	7.2	15.9	BDL (DL - 0.5)
-		28/04/2023	61.7	21.6	9.3	18.2	BDL (DL - 0.5)
	Monthly Average	Value	58.8	20.5	9.8	18.6	BDL (DL - 0.5)

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

Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

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Ambient Air Quality Monitoring Report-May-2023

Report No.: AN/AAC		Date	: 03/06/2023			
Name and Address of Industry:-	M/s Noamuno	li Iron Mine	W. O. No.	4700098928/962		
Sample	(M/s TATA S	teel Limited)	W. O. date:	22.03.2022		
Description/ Type	Ambient Air Quality (Core Zone)			ALPL/23052023/ENV-116-1/NIM-CZ/AAQMS-1		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	and ALPL/23052023/ENV-116-2/NIM-CZ/A - 8, 15, 22 May-2023 & 2-June-2023			
est Started On:- 8, 15, 22 May-2023 & Test Completed O		Test Completed On:-				
Sampling Procedure	ANtd/7.2/Mon-01			- June 2020		

Sr. No.	LOCATION	Date of sampling	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	mg/m ³ IS:5182
		02/05/2023	56.2	24.9	11.8	18.3	(Part-10)
		05/05/2023	61.7	26.8	12.4	23.7	BDL (DL - 0.5)
1.00		09/05/2023	54.9	18.3	9.2	17.1	BDL (DL - 0.5)
AAQMS-1	Near WTP	12/05/2023	56.8	19.6	11.7	21.8	BDL (DL - 0.5)
		16/05/2023	54.2	21.1	8.6	16.7	BDL (DL - 0.5)
		19/05/2023	52.9	16.9	7.2	16.4	BDL (DL - 0.5)
		23/05/2023	48.3	17.2	8.4	17.3	BDL (DL - 0.5)
1		26/05/2023	51.6	16.4	6.8	17.5	BDL (DL - 0.5)
*	Monthly Average V	alue	54.6	20.2	9.5	18.5	BDL (DL - 0.5) BDL (DL - 0.5)
		02/05/2023	54.7	21.6	8.4	16.9	
-		05/05/2023	61.4	23.8	11.6	21.4	BDL (DL - 0.5)
		09/05/2023	58.3	19.2	9.2	18.1	BDL (DL - 0.5)
AAQMS-2	Near Hospital	12/05/2023	54.7	18.3	8.7	19.6	BDL (DL - 0.5)
	ricopiui	16/05/2023	63.1	24.7	12.8	23.9	BDL (DL - 0.5)
		19/05/2023	58.3	21.6	11.4	23.9	BDL (DL - 0.5)
		23/05/2023	61.8	19.3	9.2	18.2	BDL (DL - 0.5)
		26/05/2023	54.7	18.7	8.4	17.1	BDL (DL - 0.5)
	Monthly Average Va	lue	58.4	20.9	10.0	17.1	BDL (DL – 0.5) BDL (DL – 0.5)

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 CPCB Standards.

Verified by

Snehal Raut Deputy Technical Manager

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Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-May-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2		Date: 03/06/2023		
Name and Address of	M/s Noamund	li Iron Mine	W. O. No.	4700098928/962	
Industry:-	(M/s TATA S	(M/s TATA Steel Limited)		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/23052023/ENV-116-3/NIM-CZ/AAQ-3 a ALPL/23052023/ENV-116-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	8, 15, 22 May-2023 & 2-June-2023		
Test Started On:-	8, 15, 22 May-2023 & 2-June-2023	Test Completed On:-	9, 16, 23 May-2023 & 3-June-2023		
Sampling Procedure	ANtd/7.2/Mon-01				

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM25 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)	
		02/05/2023	61.7	24.8	13.9	26.1	BDL (DL - 0.5)
		05/05/2023	58.3	19.2	11.6	24.7	BDL (DL - 0.5)
0		09/05/2023	54.1	18.6	9.2	18.3	BDL (DL - 0.5)
AAQMS-3	MRSS	12/05/2023	49.7	16.1	8.7	16.8	BDL (DL - 0.5)
~		16/05/2023	52.6	21.6	11.3	21.9	BDL (DL - 0.5)
		19/05/2023	56.3	23.8	12.1	24.7	BDL (DL - 0.5)
		23/05/2023	48.1	19.2	9.7	16.8	BDL (DL - 0.5)
		26/05/2023	52.8	21.6	11.4	18.3	BDL (DL - 0.5)
	Monthly Average	Value	54.2	20.6	11.0	21.0	BDL (DL - 0.5)
		02/05/2023	54.7	21.6	12.8	17.9	BDL (DL - 0.5)
	· · · · /	05/05/2023	48.3	16.7	11.3	16.1	BDL (DL - 0.5)
		09/05/2023	56.1	24.6	13.8	19.2	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	12/05/2023	52.8	18.3	9.2	16.7	BDL (DL - 0.5)
	Dottom Diff	16/05/2023	48.3	19.7	8.4	15.3	BDL (DL - 0.5)
		19/05/2023	56.1	21.4	11.6	18.2	BDL (DL - 0.5)
		23/05/2023	54.2	18.3	9.1	16.7	BDL (DL - 0.5)
1		26/05/2023	56.7	19.6	8.4	16.4	BDL (DL - 0.5)
	Monthly Average	Value	53.4	20.0	10.6	17.1	BDL (DL - 0.5)

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

Verified by

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Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager

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Ambient Air Quality Monitoring Report-June-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1		Date: 03/07/2023		
Name and Address of M/s Noamundi Iron Mit		di Iron Mine	W. O. No.	4700098928/962	
Industry:-		ATA Steel Limited) W. O. date: ALPL/22062023/		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	V-142-1/NIM-CZ/AAQMS-1 ENV-142-2/NIM-CZ/AAQMS-2		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	12, 19, 26 June-2023 & 3-July-2023		
Test Started On:-	12, 19, 26 June-2023 & 3-July-2023	Test Completed On:-	13, 19, 27 June-2023 & 3-July-2023		
Sampling Procedure	ANtd/7.2/Mon-01	for the second			

Sr. No.	LOCATION	Date of sampling	ΡM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		02/06/2023	53.9	23.6	12.1	17.6	BDL (DL - 0.5)
1.0		06/06/2023	57.2	24.9	11.6	18.3	BDL (DL - 0.5)
		09/06/2023	47.6	16.4	8.2	14.9	BDL (DL - 0.5)
	Satt Instant	13/06/2023	52.7	21.6	9.3	24.7	BDL (DL - 0.5)
AAQMS-1	Near WTP	16/06/2023	49.3	16.8	7.6	21.3	BDL (DL - 0.5)
. ,		20/06/2023		Cancelled due to Rain Fall			
		23/06/2023	Cancelled due to Rain Fall			BDL (DL - 0.5)	
100 100		27/06/2023	51.7	17.9	8.4	19.7	BDL (DL – 0.5)
	Monthly Average V		52.1	20.2	9.5	19.4	BDL (DL – 0.5)
			14				1
		02/06/2023	46.2	16.7	7.6	17.2	BDL (DL - 0.5)
	and the second second	06/06/2023	43.9	15.8	6.8	16.1	BDL (DL - 0.5)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09/06/2023	51.7	21.6	11.3	21.4	BDL (DL – 0.5)
Survey and a state		13/06/2023	48.3	17.2	9.1	18.6	BDL (DL – 0.5)
AAQMS-2	Near Hospital	16/06/2023	52.8	21.9	11.7	23.1	BDL (DL - 0.5)
		20/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
1.1	- provide a statistical sector	23/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
	And the second second	27/06/2023	53.6	21.4	11.3	21.7	BDL (DL - 0.5)
	Monthly Average V		49.4	19.1	9.6	19.7	BDL (DL - 0.5)

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

Verified by

Snehal Raut

Deputy Technical Manager

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Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-June-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	14	Date	: 03/07/2023	
Name and Address of	M/s Noamun	di Iron Mine	W. O. No.	4700098928/962	
Industry:-		(M/s TATA Steel Limited) W. C		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/22062023/ENV-142-3/NIM-CZ/AAQ-3 ar ALPL/22062023/ENV-142-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	12, 19, 26 June-2023 & 3-July-2023		
Test Started On:-	12, 19, 26 June-2023 & 3-July-2023	Test Completed On:-	13, 19, 27 June-2023 & 3-July-2023		
Sampling Procedure	ANtd/7.2/Mon-01		A		

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM25 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ce in the second s	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		02/06/2023	56.3	26.1	12.8	24.9	BDL (DL - 0.5)
		06/06/2023	61.7	31.6	11.9	26.8	BDL (DL - 0.5)
		09/06/2023	52.4	24.9	9.7	19.3	BDL (DL - 0.5)
1.0010.0	MDCC	13/06/2023	47.6	18.3	8.4	17.1	BDL (DL - 0.5)
AAQMS-3	MRSS	16/06/2023	54.9	23.6	11.2	21.7	BDL (DL - 0.5)
1.00		20/06/2023	Cancelled due to Rain Fall				BDL (DL - 0.5)
		23/06/2023	Cancelled due to Rain Fall			BDL (DL – 0.5)	
		27/06/2023	51.7	21.4	9.6	21.2	BDL (DL - 0.5)
1	Monthly Average	Value	54.1	24.3	10.6	21.8	BDL (DL - 0.5)
		02/06/2023	51.6	18.3	11.9	16.4	BDL (DL - 0.5)
		06/06/2023	47.2	16.1	9.2	18.6	BDL (DL - 0.5)
		09/06/2023	42.8	14.7	6.8	16.1	BDL (DL - 0.5)
		13/06/2023	48.7	16.9	9.1	21.7	BDL (DL - 0.5)
AAQMS-4,	Bottom Bin	16/06/2023	52.1	21.4	11.3	23.9	BDL (DL - 0.5)
		20/06/2023	Cancelled due to Rain Fall		BDL (DL - 0.5)		
		23/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
		27/06/2023	52.8	21.9	9.2	19.1	BDL (DL - 0.5)
	Monthly Average	Value	49.2	18.2	9.6	19.3	BDL (DL - 0.5

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Verified by

Snehal Raut Deputy Technical Manager

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Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Ambient Air Quality Monitoring Report-July-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1		Date: 03/08/2023		
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/20072023/ENV-180-1/NIM-CZ/AAQMS-1 and ALPL/20072023/ENV-180-2/NIM-CZ/AAQMS-2		
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	10,17,24 July-2023 & 2	2-August-2023	
Test Started On:-	10, 17, 24 July-2023 & 2-Aug-2023	Test Completed On:-	n:- 11,18,25 July-2023 & 3-August-2023		
Sampling Procedure	ANtd/7.2/Mon-01		Contraction of the second		

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
And the second	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		04/07/2023	48.7	21.7	11.9	16.4	BDL (DL - 0.5)
1	et an write a write a	07/07/2023	53.6	23.9	12.6	21.3	BDL (DL - 0.5)
Tree Tree	mantal and rd and	11/07/2023	46.2	15.7	9.2	18.1	BDL (DL - 0.5)
AAQMS-1	Near WTP	14/07/2023	51.7	21.6	11.3	19.7	BDL (DL - 0.5)
AAQINIS-1		18/07/2023	48.3	18.2	8.7	16.3	BDL (DL - 0.5)
10-4		21/07/2023	51.7	19.3	9.2	17.1	BDL (DL - 0.5)
S G Batt		25/07/2023	47.6	16.7	7.6	16.4	BDL (DL - 0.5)
A de la		28/07/2023	52.9	18.2	9.1	17.6	BDL (DL - 0.5)
	Monthly Average V	alue	50.1	19.4	10.0	17.9	BDL (DL - 0.5)
		04/07/2023	47.2	16.9	8.4	18.3	BDL (DL - 0.5)
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		07/07/2023	53.6	24.7	11.6	21.6	BDL (DL - 0.5)
	and an international	11/07/2023	43.9	18.2	9.2	19.7	BDL (DL - 0.5)
AAQMS-2	Near Hospital	14/07/2023	46.1	21.6	8.7	18.2	BDL (DL - 0.5)
AAQ1410-2		18/07/2023	51.7	23.6	12.8	23.6	BDL (DL - 0.5)
(AD)		21/07/2023	48.3	19.2	11.4	16.7	BDL (DL - 0.5)
a state of		25/07/2023	52.9	18.7	9.3	17.1	BDL (DL - 0.5)
		28/07/2023	47.2	16.4	8.1	16.3	BDL (DL - 0.5)
2	Monthly Average Va	lue	48.9	19.9	9.9	18.9	BDL (DL - 0.5)

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report---

Authorized Signatory

Stamp

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-July-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	Date: 03/07/2023			
Name and Address of	ame and Address of M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:- (M/s TATA Steel Limited)		W. O. date:	22.03.2022		
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/20072023/ENV-180-3/NIM-CZ/AAQ-3 ALPL/20072023/ENV-180-4/NIM-CZ/AAQ-		
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	10,17,24 July-2023 & 2-August-2023		
Test Started On:-	10, 17, 24 July-2023 & 2-Aug-2023	Test Completed On:-	11,18,25 July-2023 & 3-August-2023		
Sampling Procedure ANtd/7.2/Mon-01					

Sr. No.	LOCATION	Date of sampling	ΡΜ10 μg/m ³	PM25 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Method Referen	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
1.000		04/07/2023	52.8	24.7	9.3	21.6	BDL (DL - 0.5)
100		07/07/2023	56.3	28.6	11.7	24.9	BDL (DL - 0.5)
A Comment		11/07/2023	48.2	19.2	8.4	18.3	BDL (DL - 0.5)
AAQMS-3	MRSS	14/07/2023	52.7	21.7	9.1	17.6	BDL (DL - 0.5)
~		18/07/2023	56.3	24.9	12.8	23.1	BDL (DL - 0.5)
2	no na uzimbilizina an Ola tra navojstva Pra	21/07/2023	54.1	19.6	11.3	18.9	BDL (DL - 0.5)
1.		25/07/2023	47.6	16.4	9.1	17.2	BDL (DL - 0.5)
		28/07/2023	52.8	18.3	8.7	16.4	BDL (DL - 0.5)
1	Monthly Average	Value	52.6	21.7	10.1	19.8	BDL (DL – 0.5)
-		04/07/2023	46.2	16.1	8.7	17.3	BDL (DL - 0.5)
1.1.1.1.1.1.1		07/07/2023	53.7	18.3	9.4	16.8	BDL (DL - 0.5)
		11/07/2023	57.2	21.6	11.3	18.2	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	14/07/2023	49.3	17.2	8.1	17.8	BDL (DL - 0.5)
2	Dottom Dit	18/07/2023	52.6	19.3	9.4	16.4	BDL (DL - 0.5)
	0	21/07/2023	47.2	16.9	7.6	17.1	BDL (DL - 0.5)
		25/07/2023	51.7	21.6	11.3	16.9	BDL (DL - 0.5)
		28/07/2023	53.1	18.3	9.1	17.6	BDL (DL - 0.5)
	Monthly Average	Value	51.4	18.7	9.4	17.3	BDL (DL - 0.5)

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

Verified by

Snehål Raut

Deputy Technical Manager

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Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

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Ambient Air	Quality	Monitoring	Report-Au	gust-2023
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Report No.: AN/AAQ	/TS-NIM/2023/3-1	Date: 04/09/2023			
Name and Address of M/s Noamundi Iron Mine			W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone) Sample Ref. No.:-		ALPL/24082023/ENV-200-1/NIM-CZ/AAQMS-1 and ALPL/24082023/ENV-200-2/NIM-CZ/AAQMS-2		
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	7,14,21,28 Aug-2023 & 2-Sept-2023		
Test Started On:-	7,14,21,28 Aug-2023 & 2-Sept-2023	Test Completed On:-	8,14,22,29 Aug-2023 & 4-Sept-2023		
Sampling Procedure	ANtd/7.2/Mon-01				

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		01/08/2023	53.6	23.9	12.4	17.6	BDL (DL - 0.5)
	Γ	04/08/2023	48.3	21.4	9.2	16.1	BDL (DL - 0.5)
	[08/08/2023	56.1	26.3	13.9	21.7	BDL (DL - 0.5)
1101/01	NT INTER	11/08/2023	54.7	23.7	12.4	18.3	BDL (DL - 0.5)
AAQMS-1	Near WTP	18/08/2023	46.3	16.9	9.2	17.6	BDL (DL - 0.5)
	-	22/08/2023	52.8	17.6	11.6	18.1	BDL (DL - 0.5)
		25/08/2023	56.3	21.9	12.8	23.7	BDL (DL - 0.5)
		29/08/2023	49.2	18.3	9.1	16.4	BDL (DL - 0.5)
	Monthly Average V	alue	52.2	21.3	11.3	18.7	BDL (DL - 0.5
		01/08/2023	53.8	17.2	9.2	16.8	BDL (DL - 0.5)
	Ī	04/08/2023	49.3	16.1	7.6	15.4	BDL (DL - 0.5)
	Ī	08/08/2023	51.7	17.9	11.7	21.9	BDL (DL - 0.5)
1101/6 0	NI. II.	11/08/2023	53.6	21.6	12.9	23.4	BDL (DL - 0.5)
AAQMS-2	Near Hospital	18/08/2023	48.3	16.7	9.2	18.3	BDL (DL - 0.5)
		22/08/2023	47.1	16.2	8.4	16.7	BDL (DL - 0.5)
		25/08/2023	53.7	21.8	11.6	21.9	BDL (DL - 0.5)
		29/08/2023	56.2	23.4	12.8	24.1	BDL (DL - 0.5)
	Monthly Average Va	alue	51.7	18.9	10.4	19.8	BDL (DL - 0.5

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

Par

Dr. (Mrs.) S. D. Garway Quality Manager





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Ambient Air Quality Monitoring Report-August-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	Date: 04/09/2023			
Name and Address of M/s Noamundi Iron Mine		on Mine	W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-			
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	7,14,21,28 Aug-2023 & 2-Sept-2023		
Test Started On:-	est Started On:- 7,14,21,28 Aug-2023 & 2-Sept-2023 Test Completed On:-		8,14,22,29 Aug-2023 & 4-Sept-2023		
Sampling Procedure ANtd/7.2/Mon-01			A STATE OF STATE		
			4 2		

Sr. No.	LOCATION	Date of sampling	ΡM10 μg/m ³	PM2.5 μg/m ³	SO2 µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		01/08/2023	53.7	21.6	11.3	26.7	BDL (DL - 0.5)
		04/08/2023	54.9	23.7	12.8	27.1	BDL (DL - 0.5)
		08/08/2023	47.3	16.3	7.9	19.3	BDL (DL - 0.5)
AAQMS-3	MRSS	11/08/2023	52.8	18.4	8.4	21.9	BDL (DL - 0.5)
nnQm3-5	MK35	18/08/2023	56.2	24.7	11.3	23.6	BDL (DL - 0.5)
		22/08/2023	54.9	19.3	9.1	18.3	BDL (DL - 0.5)
		25/08/2023	49.2	18.6	8.4	16.7	BDL (DL - 0.5)
		29/08/2023	51.7	21.7	9.7	18.4	BDL (DL - 0.5)
1	Monthly Average	Value	52.6	20.5	9.9	21.5	BDL (DL - 0.5)
		01/08/2023	47.3	18.3	9.2	16.9	BDL (DL - 0.5)
		04/08/2023	51.6	17.1	11.6	18.2	BDL (DL - 0.5)
		08/08/2023	48.1	21.6	12.9	23.8	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	11/08/2023	56.3	24.7	11.3	24.9	BDL (DL - 0.5)
AAQ113-4	Dottont Din	18/08/2023	54.7	19.2	8.4	18.3	BDL (DL - 0.5)
	Ser.	22/08/2023	49.3	16.7	7.3	17.2	BDL (DL - 0.5)
-		25/08/2023	52.8	21.9	9.2	21.6	BDL (DL - 0.5)
		29/08/2023	51.6	18.2	8.4	18.3	BDL (DL - 0.5)
Monthly Average Value			51.5	19.7	9.8	19.9	BDL (DL - 0.5)

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory an

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-September-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1		Date	: 04/10/2023
Name and Address of	M/s Noamundi In		W. O. No.	4700098928/962
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-		V-228-1/NIM-CZ/AAQMS-1 ENV-228-2/NIM-CZ/AAQMS-2
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	11, 18, 25 Sept -2023 &	
Test Started On:-	11, 18, 25 Sept -2023 & 3-Oct-2023	Test Completed On:-	12, 19, 26 Sept -2023 &	
Sampling Procedure	ANtd/7.2/Mon-01			.1 October 2025

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		05/09/2023	56.2	21.9	11.6	18.4	BDL (DL - 0.5)
		08/09/2023	62.8	24.7	12.9	21.6	BDL (DL - 0.5)
		12/09/2023	58.3	18.3	9.2	16.2	BDL (DL - 0.5)
AAQMS-1	Near WTP	15/09/2023	52.7	16.9	8.4	17.3	BDL (DL - 0.5)
	rical ivili	19/09/2023	58.1	21.6	11.3	21.9	BDL (DL - 0.5)
		22/09/2023	61.7	23.4	12.9	19.2	BDL (DL - 0.5)
		26/09/2023	57.3	18.3	9.2	18.4	BDL (DL - 0.5)
		29/09/2023	52.8	17.1	8.4	16.7	BDL (DL - 0.5)
	Monthly Average V	alue	57.5	20.3	10.5	18.7	BDL (DL - 0.5
		05/09/2023	54.7	16.9	8.4	17.2	BDL (DL - 0.5)
		08/09/2023	58.3	19.2	9.1	18.7	BDL (DL - 0.5)
		12/09/2023	61.8	21.8	11.6	23.9	BDL (DL - 0.5)
AAQMS-2	Near Hospital	15/09/2023	58.2	19.1	7.4	19.2	BDL (DL - 0.5)
	rical Hospital	19/09/2023	54.7	16.9	8.2	18.7	BDL (DL - 0.5)
		22/09/2023	56.3	21.4	11.7	21.9	BDL (DL - 0.5)
		26/09/2023	61.8	23.6	12.4	24.1	BDL (DL - 0.5)
		29/09/2023	58.3	18.3	9.2	19.7	BDL (DL - 0.5)
	Monthly Average Va	lue	58.0	19.7	9.8	20.4	BDL (DL - 0.5)

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Verified by

Snehal Raut Deputy Technical Manager

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Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager





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Ambient Air Quality Monitoring Report- September-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2		Date	: 04/10/2023	
Name and Address of	M/s Noamundi Ir	on Mine	W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/25092023/ENV-228-3/NIM-CZ/AAQ-3 an ALPL/25092023/ENV-228-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	11, 18, 25 Sept -2023	& 3-October-2023	
Test Started On:-	11, 18, 25 Sept -2023 & 3-Oct-2023	Test Completed On:-	12, 19, 26 Sept -2023	& 4-October-2023	
Sampling Procedure	ANtd/7.2/Mon-01				

Sr. No.	LOCATION	Date of sampling	ΡM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		05/09/2023	51.6	18.3	9.2	21.8	BDL (DL - 0.5)
		08/09/2023	47.3	16.4	8.4	19.3	BDL (DL - 0.5)
		12/09/2023	56.1	21.6	11.8	23.6	BDL (DL - 0.5)
AAQMS-3	MRSS	15/09/2023	61.7	19.3	9.2	18.7	BDL (DL - 0.5)
in Qino o	WIRDO	19/09/2023	58.3	16.4	8.4	17.9	BDL (DL - 0.5)
		22/09/2023	54.6	17.6	9.1	21.6	BDL (DL - 0.5)
		26/09/2023	57.3	19.7	11.3	23.1	BDL (DL - 0.5)
		29/09/2023	61.7	21.4	12.8	24.9	BDL (DL - 0.5)
1	Monthly Average	Value	56.1	18.8	10.0	21.4	BDL (DL - 0.5
		05/09/2023	52.8	16.9	8.4	17.2	BDL (DL - 0.5)
		08/09/2023	53.6	21.4	9.3	19.1	BDL (DL - 0.5)
		12/09/2023	47.2	18.3	11.6	21.7	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	15/09/2023	51.9	21.6	12.7	23.9	BDL (DL - 0.5)
AAQM3-4	Dottom Din	19/09/2023	48.3	19.2	9.3	18.1	BDL (DL - 0.5)
		22/09/2023	53.6	18.7	8.4	17.9	BDL (DL - 0.5)
		26/09/2023	47.1	17.6	9.1	16.4	BDL (DL - 0.5)
		29/09/2023	52.8	18.3	7.6	17.2	BDL (DL - 0.5)
	Monthly Average	Value	50.9	19.0	9.6	18.9	BDL (DL - 0.5

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Verified by

Sneĥal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory Syan

Dr. (Mrs.) S. D. Garway Quality Manager





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Ambient Air Quality Monitoring Report-April-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1		Date	: 03/05/2023
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962
Industry:-	(M/s TATA Ste	(M/s TATA Steel Limited) W. O. da		22.03.2022
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/21042023/ENV-84-1/NIM-CZ/AAQMS-1 and ALPL/21042023/ENV-84-2/NIM-CZ/AAQMS	
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	10, 17 ,24 April-2023	
Test Started On:-	10, 17 ,24 April-2023 & 2- May-2023	Test Completed On:-	10, 17 ,24 April-2023 & 3-May-2023	
Sampling Procedure	ANtd/7.2/Mon-01			

Sr. No.	LOCATION	Date of sampling	PM10 µg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
,		04/04/2023	52.6	21.6	12.4	17.9	BDL (DL - 0.5)
		07/04/2023	54.1	23.8	11.6	16.3	BDL (DL - 0.5)
1.0		11/04/2023	48.7	16.9	8.7	15.7	BDL (DL - 0.5)
AAQMS-1	Near WTP	14/04/2023	52.8	21.4	12.1	21.6	BDL (DL - 0.5)
ingino-1	INCAL VVII	18/04/2023	56.3	23.7	11.9	24.1	BDL (DL - 0.5)
		21/04/2023	49.5	16.3	8.4	17.6	BDL (DL - 0.5)
Sec. 1.		25/04/2023	51.9	18.2	9.3	16.4	BDL (DL - 0.5)
		28/04/2023	53.6	21.8	9.7	17.1	BDL (DL - 0.5)
	Monthly Average V	alue	52.5	20.5	10.5	18.3	BDL (DL - 0.5)
1		04/04/2023	51.6	18.3	7.9	17.2	BDL (DL - 0.5)
		07/04/2023	48.3	16.7	8.4	16.1	BDL (DL - 0.5)
	1	11/04/2023	53.8	21.6	11.3	18.7	BDL (DL - 0.5)
AAQMS-2	Near Hospital	14/04/2023	56.2	24.9	12.8	21.4	BDL (DL - 0.5)
nnQin0-2		18/04/2023	52.9	18.7	9.3	17.2	BDL (DL - 0.5)
8		21/04/2023	48.1	16.2	7.6	16.9	BDL (DL - 0.5)
			25/04/2023	51.3	17.1	8.4	17.3
		28/04/2023	49.1	16.8	6.8	16.2	BDL (DL - 0.5)
	Monthly Average Va	lue	51.4	18.8	9.1	17.6	BDL (DL - 0.5)

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Verified by

Snehal Raut

Doputy Technical Manager

----End of Report----

Authorized Signatory

Gamp

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-April-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	4	Date	: 03/05/2023
Name and Address of	M/s Noamundi	Iron Mine	W. O. No.	4700098928/962
Industry:-	(M/s TATA Ste	el Limited)	W. O. date: 22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/21042023/ENV-84-3/NIM-CZ/AAQ-3 an ALPL/21042023/ENV-84-4/NIM-CZ/AAQ-4	
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	10, 17 ,24 April-2023 & 2-May-2023	
Test Started On:-	10, 17 ,24 April-2023 & 2- May-2023	Test Completed On:-	10, 17 ,24 April-202	23 & 3-May-2023
Sampling Procedure	ANtd/7.2/Mon-01		1. 1	

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM25 µg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ie	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		04/04/2023	54.7	18.3	11.4	23.7	BDL (DL - 0.5)
		07/04/2023	56.3	21.6	12.7	26.1	BDL (DL - 0.5)
		11/04/2023	61.8	23.9	11.6	24.3	BDL (DL - 0.5)
AAQMS-3	MRSS	14/04/2023	58.2	19.3	9.4	18.7	BDL (DL - 0.5)
~		18/04/2023	54.6	18.1	6.8	16.2	BDL (DL - 0.5)
		21/04/2023	63.9	23.6	11.7	21.8	BDL (DL - 0.5)
		25/04/2023	58.3	21.9	9.3	18.3	BDL (DL - 0.5)
		28/04/2023	61.7	19.2	8.4	16.8	BDL (DL - 0.5)
1	Monthly Average	Value	58.7	20.7	10.2	20.7	BDL (DL - 0.5)
		04/04/2023	57.3	23.6	11.4	18.7	BDL (DL - 0.5)
		07/04/2023	61.9	26.1	12.8	23.6	BDL (DL - 0.5)
		11/04/2023	57.2	18.7	9.1	17.2	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	14/04/2023	54.8	16.9	8.7	16.7	BDL (DL - 0.5)
	Dettent bit	18/04/2023	62.4	21.4	11.3	21.8	BDL (DL - 0.5)
1		21/04/2023	58,5	18.2	8.6	16.4	BDL (DL - 0.5)
		25/04/2023	57.1	17.8	7.2	15.9	BDL (DL - 0.5)
-		28/04/2023	61.7	21.6	9.3	18.2	BDL (DL - 0.5)
	Monthly Average	Value	58.8	20.5	9.8	18.6	BDL (DL - 0.5)

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

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Ambient Air Quality Monitoring Report-May-2023

Report No.: AN/AAQ/TS-NIM/2023/3-1			Date	: 03/06/2023
Name and Address of Industry:-	M/s Noamuno	li Iron Mine	W. O. No.	4700098928/962
Sample		(M/s TATA Steel Limited) W. O. date:		22.03.2022
Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/23052023/ENV-116-1/NIM-CZ/AAQMS- and ALPL/23052023/ENV-116-2/NIM-CZ/AAQM	
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-		
Test Started On:-	8, 15, 22 May-2023 & 2-June-2023	Test Completed On:-		
Sampling Procedure	ANtd/7.2/Mon-01			- June 2020

Sr. No.	LOCATION	Date of sampling	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	mg/m ³ IS:5182
	erri er i	02/05/2023	56.2	24.9	11.8	18.3	(Part-10)
		05/05/2023	61.7	26.8	12.4	23.7	BDL (DL - 0.5)
1.00		09/05/2023	54.9	18.3	9.2	17.1	BDL (DL - 0.5)
AAQMS-1	Near WTP	12/05/2023	56.8	19.6	11.7	21.8	BDL (DL - 0.5)
		16/05/2023	54.2	21.1	8.6	16.7	BDL (DL - 0.5)
		19/05/2023	52.9	16.9	7.2	16.4	BDL (DL - 0.5)
		23/05/2023	48.3	17.2	8.4	17.3	BDL (DL - 0.5)
1		26/05/2023	51.6	16.4	6.8	17.5	BDL (DL - 0.5)
*	Monthly Average V	alue	54.6	20.2	9.5	18.5	BDL (DL - 0.5) BDL (DL - 0.5)
		02/05/2023	54.7	21.6	8.4	16.9	
-		05/05/2023	61.4	23.8	11.6	21.4	BDL (DL - 0.5)
		09/05/2023	58.3	19.2	9.2	18.1	BDL (DL - 0.5)
AAQMS-2	Near Hospital	12/05/2023	54.7	18.3	8.7	19.6	BDL (DL - 0.5)
	ricopiui	16/05/2023	63.1	24.7	12.8	23.9	BDL (DL - 0.5)
		19/05/2023	58.3	21.6	11.4	23.9	BDL (DL - 0.5)
		23/05/2023	61.8	19.3	9.2	18.2	BDL (DL - 0.5)
		26/05/2023	54.7	18.7	8.4	17.1	BDL (DL - 0.5)
	Monthly Average Va	lue	58.4	20.9	10.0	17.1	BDL (DL – 0.5) BDL (DL – 0.5)

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 CPCB Standards.

Verified by

Snehal Raut Deputy Technical Manager

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Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-May-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2		Date	: 03/06/2023
Name and Address of	M/s Noamund	li Iron Mine	W. O. No.	4700098928/962
Industry:-	(M/s TATA S	ATA Steel Limited) W. O. date		22.03.2022
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/23052023/ENV-116-3/NIM-CZ/AAQ-3 a ALPL/23052023/ENV-116-4/NIM-CZ/AAQ-4	
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	8, 15, 22 May-2023	
Test Started On:-	8, 15, 22 May-2023 & 2-June-2023	Test Completed On:-	9, 16, 23 May-2023 & 3-June-2023	
Sampling Procedure	ANtd/7.2/Mon-01			

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM25 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		02/05/2023	61.7	24.8	13.9	26.1	BDL (DL - 0.5)
		05/05/2023	58.3	19.2	11.6	24.7	BDL (DL - 0.5)
0		09/05/2023	54.1	18.6	9.2	18.3	BDL (DL - 0.5)
AAQMS-3	MRSS	12/05/2023	49.7	16.1	8.7	16.8	BDL (DL - 0.5)
~		16/05/2023	52.6	21.6	11.3	21.9	BDL (DL - 0.5)
		19/05/2023	56.3	23.8	12.1	24.7	BDL (DL - 0.5)
		23/05/2023	48.1	19.2	9.7	16.8	BDL (DL - 0.5)
		26/05/2023	52.8	21.6	11.4	18.3	BDL (DL - 0.5)
	Monthly Average	Value	54.2	20.6	11.0	21.0	BDL (DL - 0.5)
		02/05/2023	54.7	21.6	12.8	17.9	BDL (DL - 0.5)
	· · · · /	05/05/2023	48.3	16.7	11.3	16.1	BDL (DL - 0.5)
		09/05/2023	56.1	24.6	13.8	19.2	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	12/05/2023	52.8	18.3	9.2	16.7	BDL (DL - 0.5)
	Dottom Diff	16/05/2023	48.3	19.7	8.4	15.3	BDL (DL - 0.5)
		19/05/2023	56.1	21.4	11.6	18.2	BDL (DL - 0.5)
		23/05/2023	54.2	18.3	9.1	16.7	BDL (DL - 0.5)
1		26/05/2023	56.7	19.6	8.4	16.4	BDL (DL - 0.5)
	Monthly Average	Value	53.4	20.0	10.6	17.1	BDL (DL - 0.5)

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

Verified by

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Snehal Raut Deputy Technical Manager

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Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager

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Ambient Air Quality Monitoring Report-June-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1		Date: 03/07/2023		
		di Iron Mine	W. O. No.	4700098928/962	
Name and Address of Industry:-	M/s Noamundi Iron Mine (M/s TATA Steel Limited)		W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/22062023/ENV-142-1/NIM-CZ/AAQMS-1 and ALPL/22062023/ENV-142-2/NIM-CZ/AAQMS		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	12, 19, 26 June-2023 &	3-July-2023	
Test Started On:-	12, 19, 26 June-2023 & 3-July-2023	Test Completed On:-	13, 19, 27 June-2023 & 3-July-2023		
Sampling Procedure	ANtd/7.2/Mon-01	for the second			

Sr. No.	LOCATION	Date of sampling	ΡM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		02/06/2023	53.9	23.6	12.1	17.6	BDL (DL - 0.5)
100		06/06/2023	57.2	24.9	11.6	18.3	BDL (DL - 0.5)
		09/06/2023	47.6	16.4	8.2	14.9	BDL (DL - 0.5)
	Satt Instant	13/06/2023	52.7	21.6	9.3	24.7	BDL (DL - 0.5)
AAQMS-1	Near WTP	16/06/2023	49.3	16.8	7.6	21.3	BDL (DL - 0.5)
. /		20/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
		23/06/2023	Cancelled due to Rain Fall		-	BDL (DL - 0.5)	
100 100		27/06/2023	51.7	17.9	8.4	19.7	BDL (DL – 0.5)
	Monthly Average V		52.1	20.2	9.5	19.4	BDL (DL – 0.5)
			14				1
		02/06/2023	46.2	16.7	7.6	17.2	BDL (DL - 0.5)
	and the second second	06/06/2023	43.9	15.8	6.8	16.1	BDL (DL - 0.5)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09/06/2023	51.7	21.6	11.3	21.4	BDL (DL – 0.5)
Survey and a state		13/06/2023	48.3	17.2	9.1	18.6	BDL (DL – 0.5)
AAQMS-2	Near Hospital	16/06/2023	52.8	21.9	11.7	23.1	BDL (DL - 0.5)
		20/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
1.1	- provide a statistical sector	23/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Health Annual States	27/06/2023	53.6	21.4	11.3	21.7	BDL (DL - 0.5)
	Monthly Average V		49.4	19.1	9.6	19.7	BDL (DL - 0.5)

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

Verified by

Snehal Raut

Deputy Technical Manager

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Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-June-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	14	Date	: 03/07/2023	
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:-		(M/s TATA Steel Limited)		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/22062023/ENV-142-3/NIM-CZ/AAQ-3 and ALPL/22062023/ENV-142-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative (Mr. Sovan Giri)	Sample Inward Date:-	12, 19, 26 June-2023	& 3-July-2023	
Test Started On:-	12, 19, 26 June-2023 & 3-July-2023	Test Completed On:-	13, 19, 27 June-2023	& 3-July-2023	
Sampling Procedure	ANtd/7.2/Mon-01		A		

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM25 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)	
		02/06/2023	56.3	26.1	12.8	24.9	BDL (DL - 0.5)
		06/06/2023	61.7	31.6	11.9	26.8	BDL (DL - 0.5)
		09/06/2023	52.4	24.9	9.7	19.3	BDL (DL - 0.5)
1.0010.0	MDCC	13/06/2023	47.6	18.3	8.4	17.1	BDL (DL - 0.5)
AAQMS-3	MRSS	16/06/2023	54.9	23.6	11.2	21.7	BDL (DL - 0.5)
1.00		20/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
		23/06/2023	Cancelled due to		to Rain Fall		BDL (DL – 0.5)
		27/06/2023	51.7	21.4	9.6	21.2	BDL (DL - 0.5)
1	Monthly Average	Value	54.1	24.3	10.6	21.8	BDL (DL - 0.5)
		02/06/2023	51.6	18.3	11.9	16.4	BDL (DL - 0.5)
		06/06/2023	47.2	16.1	9.2	18.6	BDL (DL - 0.5)
		09/06/2023	42.8	14.7	6.8	16.1	BDL (DL - 0.5)
		13/06/2023	48.7	16.9	9.1	21.7	BDL (DL - 0.5)
AAQMS-4,	Bottom Bin	16/06/2023	52.1	21.4	11.3	23.9	BDL (DL - 0.5)
		20/06/2023	Cancelled due to Rain Fall				BDL (DL - 0.5)
		23/06/2023		Cancelled due	to Rain Fall		BDL (DL - 0.5)
		27/06/2023	52.8	21.9	9.2	19.1	BDL (DL - 0.5)
	Monthly Average	Value	49.2	18.2	9.6	19.3	BDL (DL - 0.5

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Verified by

Snehal Raut Deputy Technical Manager

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Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Ambient Air Quality Monitoring Report-July-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1	Date: 03/08/2023			
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	(M/s TATA Steel Limited)		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-		V-180-1/NIM-CZ/AAQMS-1 ENV-180-2/NIM-CZ/AAQMS-2	
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	10,17,24 July-2023 & 2	2-August-2023	
Test Started On:-	10, 17, 24 July-2023 & 2-Aug-2023	Test Completed On:-	11,18,25 July-2023 & 3-August-2023		
Sampling Procedure	ANtd/7.2/Mon-01		Contraction of the second		

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
And the second	Method Reference	As the here of the	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		04/07/2023	48.7	21.7	11.9	16.4	BDL (DL - 0.5)
1	et an write a write a	07/07/2023	53.6	23.9	12.6	21.3	BDL (DL - 0.5)
Tree Tree	mantal and rd and	11/07/2023	46.2	15.7	9.2	18.1	BDL (DL - 0.5)
AAQMS-1	Near WTP	14/07/2023	51.7	21.6	11.3	19.7	BDL (DL - 0.5)
AAQINIS-1		18/07/2023	48.3	18.2	8.7	16.3	BDL (DL - 0.5)
10-9	na aile ta bi chia an le gu bric bia 745	21/07/2023	51.7	19.3	9.2	17.1	BDL (DL - 0.5)
Sile Balts		25/07/2023	47.6	16.7	7.6	16.4	BDL (DL - 0.5)
A de la		28/07/2023	52.9	18.2	9.1	17.6	BDL (DL - 0.5)
	Monthly Average V	alue	50.1	19.4	10.0	17.9	BDL (DL - 0.5)
		04/07/2023	47.2	16.9	8.4	18.3	BDL (DL - 0.5)
S. S. S. S. S. S. S.	ten you damina	07/07/2023	53.6	24.7	11.6	21.6	BDL (DL - 0.5)
	and an international	11/07/2023	43.9	18.2	9.2	19.7	BDL (DL - 0.5)
AAQMS-2	Near Hospital	14/07/2023	46.1	21.6	8.7	18.2	BDL (DL - 0.5)
AAQ1910-2		18/07/2023	51.7	23.6	12.8	23.6	BDL (DL - 0.5)
(AL)		21/07/2023	48.3	19.2	11.4	16.7	BDL (DL - 0.5)
	and there been the bas	25/07/2023	52.9	18.7	9.3	17.1	BDL (DL - 0.5)
		28/07/2023	47.2	16.4	8.1	16.3	BDL (DL - 0.5)
3	Monthly Average Va	llue	48.9	19.9	9.9	18.9	BDL (DL - 0.5)

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

Verified by

Snehal Raut

Deputy Technical Manager

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Authorized Signatory

Stamp

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality Monitoring Report-July-2023

Report No.: AN/AAQ	2/TS-NIM/2023/3-2	Date: 03/07/2023			
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	(M/s TATA Steel Limited)		22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/20072023/ENV-180-3/NIM-CZ/AAQ-3 and ALPL/20072023/ENV-180-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	10,17,24 July-2023 &	2-August-2023	
Test Started On:-	10, 17, 24 July-2023 & 2-Aug-2023	Test Completed On:-	11,18,25 July-2023 & 3-August-2023		
Sampling Procedure	ANtd/7.2/Mon-01				

Sr. No.	LOCATION	Date of sampling	ΡΜ10 μg/m ³	PM25 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Method Reference	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
1.000		04/07/2023	52.8	24.7	9.3	21.6	BDL (DL - 0.5)
100		07/07/2023	56.3	28.6	11.7	24.9	BDL (DL - 0.5)
A Comment		11/07/2023	48.2	19.2	8.4	18.3	BDL (DL - 0.5)
AAQMS-3	MRSS	14/07/2023	52.7	21.7	9.1	17.6	BDL (DL - 0.5)
~		18/07/2023	56.3	24.9	12.8	23.1	BDL (DL - 0.5)
2		21/07/2023	54.1	19.6	11.3	18.9	BDL (DL - 0.5)
1.		25/07/2023	47.6	16.4	9.1	17.2	BDL (DL - 0.5)
		28/07/2023	52.8	18.3	8.7	16.4	BDL (DL - 0.5)
1	Monthly Average	Value	52.6	21.7	10.1	19.8	BDL (DL - 0.5)
	A. A. Sale California	04/07/2023	46.2	16.1	8.7	17.3	BDL (DL - 0.5)
1 1 1 1 1		07/07/2023	53.7	18.3	9.4	16.8	BDL (DL - 0.5)
		11/07/2023	57.2	21.6	11.3	18.2	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	14/07/2023	49.3	17.2	8.1	17.8	BDL (DL - 0.5)
	20ttom bill	18/07/2023	52.6	19.3	9.4	16.4	BDL (DL - 0.5)
		21/07/2023	47.2	16.9	7.6	17.1	BDL (DL - 0.5)
		25/07/2023	51.7	21.6	11.3	16.9	BDL (DL - 0.5)
	the first	28/07/2023	53.1	18.3	9.1	17.6	BDL (DL - 0.5)
	Monthly Average	Value	51.4	18.7	9.4	17.3	BDL (DL - 0.5)

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

Verified by

Snehål Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Page 1 of 1

Ambient Air	Quality	Monitoring	Report-Au	gust-2023
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Report No.: AN/AAQ	/TS-NIM/2023/3-1	Date: 04/09/2023			
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-		V-200-1/NIM-CZ/AAQMS-1 ENV-200-2/NIM-CZ/AAQMS-2	
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	7,14,21,28 Aug-2023	& 2-Sept-2023	
Test Started On:-	7,14,21,28 Aug-2023 & 2-Sept-2023	Test Completed On:-	Completed On:- 8,14,22,29 Aug-2023 & 4-Sept-2023		
Sampling Procedure	ANtd/7.2/Mon-01				

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		01/08/2023	53.6	23.9	12.4	17.6	BDL (DL - 0.5)
	Γ	04/08/2023	48.3	21.4	9.2	16.1	BDL (DL - 0.5)
	[08/08/2023	56.1	26.3	13.9	21.7	BDL (DL - 0.5)
1101/01	NT INTER	11/08/2023	54.7	23.7	12.4	18.3	BDL (DL - 0.5)
AAQMS-1	Near WTP	18/08/2023	46.3	16.9	9.2	17.6	BDL (DL - 0.5)
	-	22/08/2023	52.8	17.6	11.6	18.1	BDL (DL - 0.5)
		25/08/2023	56.3	21.9	12.8	23.7	BDL (DL - 0.5)
		29/08/2023	49.2	18.3	9.1	16.4	BDL (DL - 0.5)
	Monthly Average V	alue	52.2	21.3	11.3	18.7	BDL (DL - 0.5
		01/08/2023	53.8	17.2	9.2	16.8	BDL (DL - 0.5)
	ľ	04/08/2023	49.3	16.1	7.6	15.4	BDL (DL - 0.5)
	Ī	08/08/2023	51.7	17.9	11.7	21.9	BDL (DL - 0.5)
1101/6 0	NI. II.	11/08/2023	53.6	21.6	12.9	23.4	BDL (DL - 0.5)
AAQMS-2	Near Hospital	18/08/2023	48.3	16.7	9.2	18.3	BDL (DL - 0.5)
	100 M	22/08/2023	47.1	16.2	8.4	16.7	BDL (DL - 0.5)
		25/08/2023	53.7	21.8	11.6	21.9	BDL (DL - 0.5)
	And I	29/08/2023	56.2	23.4	12.8	24.1	BDL (DL - 0.5)
	Monthly Average Va	alue	51.7	18.9	10.4	19.8	BDL (DL - 0.5

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

Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

Par

Dr. (Mrs.) S. D. Garway Quality Manager





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Test Report

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Ambient Air Quality Monitoring Report-August-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2	Date: 04/09/2023			
Name and Address of	M/s Noamundi Iron Mine		W. O. No.	4700098928/962	
Industry:- (M/s TATA Steel		Limited)	W. O. date:	22.03.2022	
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/24082023/ENV-200-3/NIM-CZ/AAQ-3 ar ALPL/24082023/ENV-200-4/NIM-CZ/AAQ-4		
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	7,14,21,28 Aug-2023	& 2-Sept-2023	
Test Started On:-	7,14,21,28 Aug-2023 & 2-Sept-2023	Test Completed On:-	8,14,22,29 Aug-2023 & 4-Sept-2023		
Sampling Procedure	Sampling Procedure ANtd/7.2/Mon-01		A STATE OF STATE		
			4 2		

Sr. No.	LOCATION	Date of sampling	ΡM10 μg/m ³	PM2.5 μg/m ³	SO2 µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		01/08/2023	53.7	21.6	11.3	26.7	BDL (DL - 0.5)
		04/08/2023	54.9	23.7	12.8	27.1	BDL (DL - 0.5)
		08/08/2023	47.3	16.3	7.9	19.3	BDL (DL - 0.5)
AAQMS-3	MRSS	11/08/2023	52.8	18.4	8.4	21.9	BDL (DL - 0.5)
Angino-5	WIROD	18/08/2023	56.2	24.7	11.3	23.6	BDL (DL - 0.5)
		22/08/2023	54.9	19.3	9.1	18.3	BDL (DL - 0.5)
		25/08/2023	49.2	18.6	8.4	16.7	BDL (DL - 0.5)
		29/08/2023	51.7	21.7	9.7	18.4	BDL (DL - 0.5)
1	Monthly Average	Value	52.6	20.5	9.9	21.5	BDL (DL - 0.5)
		01/08/2023	47.3	18.3	9.2	16.9	BDL (DL - 0.5)
		04/08/2023	51.6	17.1	11.6	18.2	BDL (DL - 0.5)
		08/08/2023	48.1	21.6	12.9	23.8	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	11/08/2023	56.3	24.7	11.3	24.9	BDL (DL - 0.5)
AAQIII5-4	Dottont Din	18/08/2023	54.7	19.2	8.4	18.3	BDL (DL - 0.5)
		22/08/2023	49.3	16.7	7.3	17.2	BDL (DL - 0.5)
		25/08/2023	52.8	21.9	9.2	21.6	BDL (DL - 0.5)
		29/08/2023	51.6	18.2	8.4	18.3	BDL (DL - 0.5)
	Monthly Average	Value	51.5	19.7	9.8	19.9	BDL (DL - 0.5)

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory an

Dr. (Mrs.) S. D. Garway Quality Manager





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Test Report

Page 1 of 1

Ambient Air Quality Monitoring Report-September-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-1		Date: 04/10/2023			
Name and Address of	in/s roamunut from		W. O. No.	4700098928/962		
Industry:-	(M/s TATA Steel	Limited)	W. O. date:	22.03.2022		
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/25092023/ENV-228-1/NIM-CZ/AAQMS-1 and ALPL/25092023/ENV-228-2/NIM-CZ/AAQMS-			
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	11, 18, 25 Sept -2023 &			
Test Started On:-	11, 18, 25 Sept -2023 & 3-Oct-2023	Test Completed On:-	12, 19, 26 Sept -2023 & 4-October-2023			
Sampling Procedure	ANtd/7.2/Mon-01			.1 October 2025		

Sr. No.	LOCATION	Date of sampling	PM10 μg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	Method Reference		IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		05/09/2023	56.2	21.9	11.6	18.4	BDL (DL - 0.5)
		08/09/2023	62.8	24.7	12.9	21.6	BDL (DL - 0.5)
AAQMS-1		12/09/2023	58.3	18.3	9.2	16.2	BDL (DL - 0.5)
	Near WTP	15/09/2023	52.7	16.9	8.4	17.3	BDL (DL - 0.5)
	rical ivili	19/09/2023	58.1	21.6	11.3	21.9	BDL (DL - 0.5)
		22/09/2023	61.7	23.4	12.9	19.2	BDL (DL - 0.5)
		26/09/2023	57.3	18.3	9.2	18.4	BDL (DL - 0.5)
		29/09/2023	52.8	17.1	8.4	16.7	BDL (DL - 0.5)
	Monthly Average V	alue	57.5	20.3	10.5	18.7	BDL (DL - 0.5
		05/09/2023	54.7	16.9	8.4	17.2	BDL (DL - 0.5)
		08/09/2023	58.3	19.2	9.1	18.7	BDL (DL - 0.5)
		12/09/2023	61.8	21.8	11.6	23.9	BDL (DL - 0.5)
AAQMS-2	Near Hospital	15/09/2023	58.2	19.1	7.4	19.2	BDL (DL - 0.5)
	rical Hospital	19/09/2023	54.7	16.9	8.2	18.7	BDL (DL - 0.5)
		22/09/2023	56.3	21.4	11.7	21.9	BDL (DL - 0.5)
		26/09/2023	61.8	23.6	12.4	24.1	BDL (DL - 0.5)
		29/09/2023	58.3	18.3	9.2	19.7	BDL (DL - 0.5)
	Monthly Average Va	lue	58.0	19.7	9.8	20.4	BDL (DL - 0.5)

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager





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Test Report

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Ambient Air Quality Monitoring Report- September-2023

Report No.: AN/AAQ	/TS-NIM/2023/3-2		Date: 04/10/2023			
Name and Address of	M/s Noamundi Ir	on Mine	W. O. No.	4700098928/962		
Industry:-	(M/s TATA Steel	(M/s TATA Steel Limited)		22.03.2022		
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/25092023/ENV-228-3/NIM-CZ/AAQ-3 an ALPL/25092023/ENV-228-4/NIM-CZ/AAQ-4			
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	11, 18, 25 Sept -2023	& 3-October-2023		
Test Started On:-	11, 18, 25 Sept -2023 & 3-Oct-2023	Test Completed On:-	12, 19, 26 Sept -2023	& 4-October-2023		
Sampling Procedure	ANtd/7.2/Mon-01					

Sr. No.	LOCATION	Date of sampling	ΡM10 μg/m ³	PM2.5 μg/m ³	SO ₂ µg/m ³	NO2 µg/m ³	CO mg/m ³
	Method Reference	ce	IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
		05/09/2023	51.6	18.3	9.2	21.8	BDL (DL - 0.5)
		08/09/2023	47.3	16.4	8.4	19.3	BDL (DL - 0.5)
		12/09/2023	56.1	21.6	11.8	23.6	BDL (DL - 0.5)
AAQMS-3	MRSS	15/09/2023	61.7	19.3	9.2	18.7	BDL (DL - 0.5)
in Qino o	WIRDO	19/09/2023	58.3	16.4	8.4	17.9	BDL (DL - 0.5)
		22/09/2023	54.6	17.6	9.1	21.6	BDL (DL - 0.5)
		26/09/2023	57.3	19.7	11.3	23.1	BDL (DL - 0.5)
		29/09/2023	61.7	21.4	12.8	24.9	BDL (DL - 0.5)
1	Monthly Average	Value	56.1	18.8	10.0	21.4	BDL (DL – 0.5
		05/09/2023	52.8	16.9	8.4	17.2	BDL (DL - 0.5)
		08/09/2023	53.6	21.4	9.3	19.1	BDL (DL - 0.5)
		12/09/2023	47.2	18.3	11.6	21.7	BDL (DL - 0.5)
AAQMS-4	Bottom Bin	15/09/2023	51.9	21.6	12.7	23.9	BDL (DL - 0.5)
AAQM3-4	Dottom Din	19/09/2023	48.3	19.2	9.3	18.1	BDL (DL - 0.5)
		22/09/2023	53.6	18.7	8.4	17.9	BDL (DL - 0.5)
		26/09/2023	47.1	17.6	9.1	16.4	BDL (DL - 0.5)
		29/09/2023	52.8	18.3	7.6	17.2	BDL (DL - 0.5)
	Monthly Average	Value	50.9	19.0	9.6	18.9	BDL (DL - 0.5

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Verified by

Sneĥal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory Syan

Dr. (Mrs.) S. D. Garway Quality Manager









Test Report

ULR No.- TC545823000001289F

Test Report No. : A	LPL/3105202	3/3-13/	A da	ted 31/0	5/2023		Page 1 of 3
Issued To : M/s Noamundi Iro (M/s TATA Steel L Noamundi, Jharkha Postal Code: 83321	imited) nd	Inwa Refer	ole Inward No. rd Date ence ence Date	23/05	4700098928/962	Analysis Start Analysis End Report Issue D Sample Catego	24/05/2023 30/05/2023 ate 31/05/2023
Sample Name Ground Water	Sample So Dugwe		Sample Partic Sample Code-C		Location Co-ord Lat: 22°9'30.46"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri		Sampling Date 18/05/2023		Sampling Time 11.20 am to 4.10 pm	Sa	mpling Location Basti (Nr. Play Ground)	

TEST RESULTS Requirement as per IS 10500 : 2012 Measurement S.N. (Drinking Water Specifications) **Test Parameter** Test Method Test Result Unit **Including Amendment No. 4** Acceptable Permissible Limit Limit # **Biological Testing 1. Water** I Escherichia coli 1 Per 100 ml IS 15185 : 2016 Absent Absent Absent Chemical Testing 1. Water Π 2 Alkalinity (as CaCO3) mg/l IS 3025 (Part 23): 1986 200 600 178.57 Anionic surface active agents 3 mg/l IS 13428 : (Annex K): 2005 0.2 BDL (DL - 0.01) (as MBAS) 1.0 4 Colour Hazen units IS 3025 (Part 4): 2021 5 15 5 Cyanide (as CN) mg/l IS 3025 (Part 27): 1986 0.05 No relaxation BDL (DL - 0.005) 6 Chloride (as Cl) mg/l IS 3025 (Part 32) :1988 250 1000 34.59 7 Calcium (as Ca) IS 3025 (Part 40) : 1991 mg/l 75 200 43.62 8 Free residual chlorine IS 3025 (Part 26) : 2021 mg/l Min. 0.2 1 BDL(DL - 0.1)9 Fluoride (as F) IS 3025 (Part 60) : 2008 mg/l 1.0 1.5 0.26 10 Magnesium (as Mg) mg/l IS 3025 (Part 46): 1994 30 100 12.57 11 Nitrate (as NO₃) mg/l APHA method 23rd edition: 2017 45 No relaxation 8.19 12 Odour IS 3025 (Part 5): 2018 -Agreeable Agreeable Agreeable 13 pH IS 3025 (Part 11): 2022 -6.5 to 8.5 No relaxation 6.87 at 25°C 14 Phenolic compounds (as C6H5OH) mg/l IS 3025 (Part 43) : 2022 0.001 0.002 BDL (DL - 0.001) 15 Sulphate (as SO4) mg/l IS 3025 (Part 24) : 2022 200 400 16.32 Taste , 16 IS 3025 (Part 8): 1984 -Agreeable Agreeable Agreeable 17 Total dissolved solids mg/l IS 3025 (Part 16): 1984 500 2000 482 18 Turbidity NTU IS 3025 (Part 10): 1984 1 5 0.4 Total hardness (as CaCO₃) mg/l 19 IS 3025 (Part 21): 2009 200 600 160.65

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut

Deputy Technical Manager

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Authorized Signatories

Pooja Kathane Technical Manager

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

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ULR No.- TC545823000001289F

	9477-C	ated $31/0$	05/2023		Page 2 of 3	
Inwa Refer	rd Date ence	23/05 W.O.	/2023 - 4700098928/962			
			A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR		Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr. Sovan Giri			Sampling Time	Sa	Sampling Location Noamundi Basti (Nr. Play Ground	
•	Samp Inwar Refer Refer e Source gwell	Sample Inward No. Inward Date Reference Reference Date e Source gwell Sample Code-Construction Sampling D	Sample Inward No. ALPL Inward Date 23/05 Reference W.O. Reference Date 22.03 e Source Sample Particulars gwell Sample Code-GW-13 Sampling Date	Sample Inward No. ALPL/23052023/Mon-3/60-GW13 Inward Date 23/05/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 e Source Sample Particulars Location Co-ord gwell Sample Code-GW-13 Lat: 22°9'30.46"N, Long Sampling Date Sampling Time	Sample Inward No. ALPL/23052023/Mon-3/60-GW13 Analysis Start Inward Date 23/05/2023 Analysis Start Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Categor e Source Sample Particulars Location Co-ordinates gwell Sample Code-GW-13 Lat: 22°9'30.46"N, Long: 85°28'53.38"E	

S.N.	Test Parameter Measuremen Unit		Test Method	Requiren IS 1050 (Drinking Wate Including Am	Test Result	
				Acceptable Limit	Permissible Limit #	1
п	Chemical Testing 2. Residues In Water			200		
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1.0	No relaxation	0.09
27	Lead (as Pb)	mg/l	IS 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.03) BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager

S. Kombe

Yogesh Kombe Deputy Technical Manager Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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o,p'-DDE

p,p'-DDD

o,p'-DDD

o.p'- DDT

p,p'- DDT

Atrazine

Malathion

Malaoxon

Ethion,

Monocrotophos

Parathion methyl

Paraoxon methyl

xi

xii

xiii

xiv

xv

xvi

xvii

xviii

xix

XX

xxi

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Test Report

ULR No.- TC545823000001289F

Issu	ed To :	_PL/31052023/3		nward No.	dated 31/(Page.	3 of 3	
M/s (M/s Noai	Noamundi Iror TATA Steel Li nundi, Jharkhan al Code: 833217	mited)	Sample II Inward D Reference Reference)ate e	23/05 W.O.	/23052023/ 5/2023 r 4700098			Analysis Start Analysis End Report Issue Date Sample Category		24/05/2023 30/05/2023 31/05/2023 Water	
S	ample Name round Water	Sample Sour Dugwell	ce S	Sample Pa	rticulars			tion Co-ord 46"N, Long:	inates Q		uantity Received	
An	Sample Col acon Representati		ri	Samplin 18/05/		1	Sampli	ng Time to 4.10 pm	Sar	nplin	g Location (Nr. Play Ground)	
_	1				TEST R	ESULTS				Buon	(init hay bround)	
S.N.	Test Pa	arameter		Measurement Unit Test Met		hod	IS 105 nod (Drinking Wat		ement as per 500 : 2012 ter Specifications) mendment No. 4		Test Result	
34	Pesticide Resid	uac Organashia				1	Accepta	ble Limit	Permissible Lin	nit #	1	
;	Alpha-HCH	ues Organochio					-	A St.				
ii'	Beta HCH				ANtr/7.2/RE			0.01	No relaxatio	n	BDL (DL - 0.01	
iii	Gamma - HCH (T in days a)			ANtr/7.2/RE			0.04	No relaxatio	n	BDL (DL - 0.03	
iv	Delta- HCH	Lindane)			ANtr/7.2/RE		-	2	No relaxatio	n	BDL (DL - 0.03)	
v	Alachlor			A set of the set of th	and the second se		S/01: 2018 0.04		No relaxatio	n	BDL (DL - 0.03)	
vi	Aldrin				ANtr/7.2/RE			20	No relaxatio	n	BDL (DL - 0.03)	
vii	Dieldrin				ANtr/7.2/RE			0.03	No relaxatio		BDL (DL - 0.03)	
viii	Butachlor			100	ANtr/7.2/RE			0.03	No relaxatio		BDL (DL - 0.03)	
ix	p.p'-DDE				ANtr/7.2/RE	the second s		125	No relaxation		BDL (DL - 0.03)	
	o.p'-DDE		μ		ANtr/7.2/RE			1	No relaxation	n	BDL (DL - 0.03)	
X												

XXI	Ethion	µg/l	ANtr/7.2/RES/01: 2018	2	N. 1	000 (00 0.00)
xxii	Chlomunifere			3	No relaxation	BDL (DL - 0.03)
AXII	Chlorpyrifos	μg/l	ANtr/7.2/RES/01: 2018	30	No relaxation	BDL (DL - 0.03)
perishab	eport shall not be reproduced except in fu le sample(s) shall be disposed off after 30 source for drinking water. • 'mg/l' is eq and shall be considered as 'absent'.	days and 15 days respe	uthenticity of this report. • Results shall b approval of Anacon Labs. • Liability of A clively from the date of issue of Test Rep	Anacon Labs is limi	ted to invoiced amount only.	

ANtr/7.2/RES/01: 2018

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

13. 1combe

Yogesh Kombe

 $\mu g/l$

 $\mu g/l$

 $\mu g/l$

µg/l

µg/1

µg/l

µg/l

µg/l

µg/1

µg/l

µg/l

Authorized Signatory

No relaxation

-

No relaxation

BDL (DL - 0.03)

Dr. (Mrs.) S.D. Garway

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Test Report

Test Report No. : A Issued To :						The second se	Page 1 of 1
Contraction of the second s		Samp	Sample Inward No. AL		/23052023/Mon-3/60-GW13	Analysis Start	24/05/2023
(M/s TATA Steel Limited) Noamundi, Jharkhand			Inward Date 23/05/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022			Analysis End	30/05/2023
						Report Issue Da Sample Categor	
Sample Name Ground Water	Sample S Dugw		Sample Partie Sample Code-O		Location Co-or Lat: 22°9'30.46"N, Long	STORE STREET, STORE STORE	Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri		Sampling Date 18/05/2023		Sampling Time 11.20 am to 4.10 pm	Sar	Sampling Location Noamundi Basti (Nr. Play Ground	

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat Including An	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4	
			1	Acceptable Limit	Permissible Limit #	1
1	Mineral Oil	mg/l	ANtr/7.2/RES/06: 2018	1	No relaxation	BDL (DL - 0.001)
			1			

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'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument/method and shall be considered as 'absent'. • Result for test no. 8 is not relevant. • ANT/7.2/RES -01.06.: Inhouse validated method. • NT' indicates not Tested as sample failed to establish safety concerns.

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

Verified By

B. Icombe

Yogesh Kombe Deputy Technical Manager

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

Authorized Signatory

Jaw

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

ULR No.- TC545823000001289F

Test Report No. : A Issued To :	LI LI 5 1052025/			ed 31/0.		Page 1 of 3		
M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand		Sample Inward No. Inward Date		ALPL/23052023/Mon-3/60-GW14 23/05/2023		Analysis Start Analysis End		24/05/2023 30/05/2023
		and the second second	eference W.O eference Date 22.03.		4700098928/962 2022	Report Issue Date Sample Category		
Sample Name Ground Water	Sample Sou Dugwell		Sample Partice Sample Code-G	ulars : W-14	Location Co-or Lat: 22°9'25.41"N, Long		21.34"E	Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri		iri	Sampling Date 18/05/2023		Sampling Time 11.20 am to 4.10 pm		Sampling Location Noamundi Bazar (Nr. Petrol Pum	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 1050 (Drinking Wate	ent as per 0 : 2012 r Specifications) endment No. 4	Test Result	
				Acceptable Limit	Permissible Limit #]	
1	Biological Testing 1. Water					-	
1	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent	
П	Chemical Testing 1. Water				riosent	1 Nosein	
2 .	Alkalinity (as CaCO3)	mg/l	IS 3025 (Part 23) : 1986	200	600	168.29	
3	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)	
4	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	1	
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.05	No relaxation	BDL (DL - 0.005)	
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	1000	28.47	
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	52.91	
8	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	200		
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	BDL (DL - 0.1)	
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	1.5	0.26	
11	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	13.47	
12	Odour	- 10. 1	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	8.16	
13	pH		IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	Agreeable	
14	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.001	0.002	7.31 at 25°C	
15	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	BDL (DL - 0.001)	
16	Taste	-	IS 3025 (Part 8) : 1984	Agreeable		17.24	
17	Total dissolved solids	mg/l	IS 3025 (Part 16) : 1984	500	Agreeable	Agreeable	
18	Turbidity	NTU	IS 3025 (Part 10) : 1984	500	2000	309	
19	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	0.4	

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

	the second s	_PL/31052023/3-		dated 31/0				Pa	ige 2 of 3	
1991	ed To :		Sample Inward	No. ALPL	/23052023/Mon	1-3/60-GW14	Ana	lysis Start	24/05/2023	
	Noamundi Iron		Inward Date	23/05	/2023	23		lysis End	30/05/2023	
	TATA Steel Li		Reference W.O 4700098928/962			/962	CONFERENCE CONTRACTOR	ort Issue Date	31/05/2023	
	nundi, Jharkhan d Code: 833217		Reference Date	22.03	2022			ple Category		
Sa	ample Name	Sample Sourc	e Sample P	articulars	L	ocation Co-ord	inates		Quantity Received	
G	round Water	Dugwell		ode-GW-14	Lat: 22°9'	25.41"N, Long:	85°30	'21.34"E	5.0 Ltr & 250 ml	
	Sample Col	lected By	1000	ng Date	100	pling Time			ing Location	
Ana	acon Representati	ve Mr. Sovan Giri		5/2023		am to 4.10 pm		azar (Nr. Petrol Pump)		
				TEST R		an to 4.10 pm		Hoamunul D	azar (INI. Fellor Pump)	
s.n.			Test Parameter Measurement Unit		Test Method		Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4			
	-					Acceptable Limit	Permissible Limit #			
п	Chemical Testi 2. Residues In			14	•))	Ser.				
20	Arsenic (as As)		mg/l	IS 3025 (Par		0.01	N	lo relaxation	BDL (DL - 0.01)	
21	Aluminium (as	Al)	mg/l	IS 3025 (Pa	rt 2): 2019	0.03		0.2	BDL (DL - 0.01)	
22	Barium (as Ba)		mg/l	IS 3025 (Pa	rt 2): 2019	0.7	N	lo relaxation	BDL (DL - 0.01)	
23	Boron (as B)	_	mg/l	IS 3025 (Pa	rt 2): 2019	0.5		2.4	BDL (DL - 0.1)	
24	Copper (as Cu)	_	mg/l	IS 3025 (Pa	rt 2): 2019	0.05		1.5	BDL (DL - 0.03)	
25	Cadmium (as C	d)	mg/l	IS 3025 (Pa	rt 2): 2019	0.003	N	lo relaxation	BDL (DL - 0.001)	
26	Iron (as Fe)		mg/l	IS 3025 (Pa	rt 2): 2019	1.0	N	lo relaxation	0.02	
27	Lead (as Pb)		mg/l	IS 3025 (Pa	rt 2): 2019	0.01	N	lo relaxation	BDL (DL - 0.001)	
28	Manganese (as l		mg/l	IS 3025 (Pa	rt 2): 2019	0.1		0.3	BDL (DL - 0.05)	
29	Mercury (as Hg		mg/l	IS 3025 (Par	t 48) : 1994	0.001	N	lo relaxation	BDL (DL - 0.0005)	
30	Selenium (as Se		mg/l	IS 3025 (Par	t 56) : 2003	0.01	N	lo relaxation	BDL (DL- 0.001)	
31	Total Chromiun	n (as Cr)	mg/l	IS 3025 (Pa	rt 2): 2019	0.05	N	lo relaxation	BDL (DL - 0.03)	
32	Zinc (as Zn)		mg/l	IS 3025 (Pa	rt 2): 2019	5		15	BDL (DL - 0.1)	
33	Polynticlear arou hydrocarbon (PA		μg/l	ANtr/7.2/RI	FS/06: 2018	0.1		lo relaxation	BDL(DL-0.03)	

Please refer last Page for Note and Remarks.

Verified By

1. S. Combe

Mangesh Fande Technical Manager

Yogesh Kombe Deputy Technical Manager

Authorized Signatory

1an

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000001289F

Test Report No. : A	LPL/31052023/3	3-14A	dated 31/0	5/2023		Page 3 of 3
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Inward Date 23/05		- 4700098928/962	Analysis Start Analysis End Report Issue Da Sample Catego	24/05/2023 30/05/2023 ate 31/05/2023
Sample Name Ground Water	•		e Particulars Code-GW-14	Location Co-or Lat: 22°9'25.41"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri			pling Date 05/2023	Sampling Time 11.20 am to 4.10 pm	Sa	mpling Location Bazar (Nr. Petrol Pump

TEST RESULTS Requirement as per IS 10500 : 2012 Measurement S.N. **Test Parameter** (Drinking Water Specifications) Test Method Test Result Unit **Including Amendment No. 4** Acceptable Limit | Permissible Limit # 34 Pesticide Residues Organochlorine Alpha-HCH i $\mu g/l$ ANtr/7.2/RES/01: 2018 0.01 No relaxation BDL (DL - 0.01) Beta HCH ii ANtr/7.2/RES/01: 2018 $\mu g/l$ 0.04 No relaxation BDL (DL - 0.03) Gamma - HCH (Lindane) iii µg/l ANtr/7.2/RES/01: 2018 No relaxation 2 BDL (DL - 0.03) iv Delta- HCH ANtr/7.2/RES/01: 2018 $\mu g/l$ 0.04 No relaxation BDL (DL - 0.03) v Alachlor $\mu g/l$ ANtr/7.2/RES/01: 2018 20 No relaxation BDL (DL - 0.03) vi Aldrin $\mu g/l$ ANtr/7.2/RES/01: 2018 0.03 No relaxation BDL (DL - 0.03) Dieldrin vii µg/l ANtr/7.2/RES/01: 2018 0.03 No relaxation BDL (DL - 0.03) viii Butachlor µg/l ANtr/7.2/RES/01: 2018 125 No relaxation BDL (DL - 0.03) p.p'-DDE ix µg/1 ANtr/7.2/RES/01: 2018 No relaxation 1 BDL (DL - 0.03) o,p'-DDE х ANtr/7.2/RES/01: 2018 µg/l 1 No relaxation BDL (DL - 0.03) p,p'-DDD xi $\mu g/l$ ANtr/7.2/RES/01: 2018 No relaxation BDL (DL - 0.03) o,p'-DDD xii $\mu g/l$ ANtr/7.2/RES/01: 2018 No relaxation BDL (DL - 0.03) o,p'- DDT xiii ANtr/7.2/RES/01: 2018 µg/l 1 No relaxation BDL (DL - 0.03) xiv p,p'- DDT ANtr/7.2/RES/01: 2018 µg/l BDL (DL - 0.03) 1 No relaxation XV Monocrotophos ANtr/7.2/RES/01: 2018 µg/l 1 No relaxation BDL (DL - 0.03) Atrazine xvi µg/l ANtr/7.2/RES/01: 2018 2 BDL (DL - 0.03) No relaxation Parathion methyl xvii µg/l ANtr/7.2/RES/01: 2018 0.3 BDL (DL - 0.03) No relaxation xviii Paraoxon methyl µg/l ANtr/7.2/RES/01: 2018 BDL (DL - 0.03) xix Malathion µg/l ANtr/7.2/RES/01: 2018 190 No relaxation BDL (DL - 0.03) Malaoxon XX $\mu g/l$ ANtr/7.2/RES/01: 2018 -BDL (DL - 0.03) Ethion xxi $\mu g/l$ ANtr/7.2/RES/01: 2018 3 BDL (DL - 0.03) No relaxation xxii Chlorpyrifos $\mu g/l$ ANtr/7.2/RES/01: 2018 30 No relaxation BDL (DL - 0.03)

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

J.S. Combe

Yogesh Kombe

Authorized Signatory

Dr. (Mrs.) S.D. Garway

Deputy Technical Manager Thanks For putting in your faith and trust in our services, We at Anacon Laboratories cheristrour relationship. We put in a lot of hard work to ensure that you have a seamless experience at every step of our relationship. in order to ensure that your next experience will be significantly better, we welcome your feedback over email on feedback@anacon.in



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Test Report

Test Report No. : A			ated 31/0		Page 1 of 1		
Issued To :		Sample Inward No.	ALPL	/23052023/Mon-3/60-GW14	Analysis Start	24/05/2023	
M/s TATA Steel Limited)		Inward Date 2		/2023	Analysis End	30/05/2023	
Noamundi, Jharkhar Postal Code: 83321	nd	Reference Reference Date	W.O 22.03	- 4700098928/962 .2022	Report Issue D Sample Catego		
Sample Name Ground Water			culars GW-14	Location Co-or Lat: 22°9'25.41"N, Long		Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr. Sovan Giri		ri Sampling I		Sampling Time 11.20 am to 4.10 pm	Sa	Sampling Location Noamundi Bazar (Nr. Petrol Pum	

TEST RESULTS Requirement as per IS 10500 : 2012 Measurement S.N. **Test Parameter Test Method** (Drinking Water Specifications) Unit Test Result Including Amendment No. 4 Acceptable Limit Permissible Limit # 1 Mineral Oil ANtr/7.2/RES/06: 2018 mg/l 1 No relaxation BDL (DL - 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 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument /method and shall be considered as 'absent'. • Result for test no. 8 is not relevant. • ANtr/7.2/RES -01,06;: Inhouse validated method. • NT'indicates not Tested as ample failed to establish safety concerns.

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

Verified By

Silcorbi

Yogesh Kombe Deputy Technical Manager

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

1

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager



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1. Test Report

ULR No.- TC545823000001289F

Test Report No. : Al				ated 31/0			Page 1 of 3
Issued To :	- SENERGY	Sample Inward No. ALPL		ALPL/23	052023/Mon-3/60-GW15	Analysis Start	24/05/2023
M/s Noamundi Iron Mines (M/s TATA Steel Limited)		Inward D	Inward Date)23	Analysis End	30/05/2023
(M/s TATA Steel Li Noamundi, Jharkhan Postal Code: 833217	d	Reference Reference		W.O 4 22.03.20	700098928/962)22	Report Issue D Sample Catego	ate 31/05/2023
Sample Name Ground Water			Sample Particulars Sample Code-GW-15 Sampling Date 18/05/2023		Location Co-or Lat: 22°8'54.89"N, Lon	2 minute in the second s	
Sample Collected By Anacon Representative Mr. Sovan Giri		Giri			Sampling Time	Sai	mpling Location Mahudi Village
			10/03/20.	TEST R	11.20 am to 4.10 pm		way Station Road)

Requirement as per IS 10500 : 2012 Measurement (Drinking Water Specifications) S.N. **Test Parameter Test Method** Test Result Unit Including Amendment No. 4 Acceptable Permissible Limit Limit # I **Biological Testing 1. Water** 1 Escherichia coli Per 100 ml IS 15185 : 2016 Absent Absent Absent П **Chemical Testing 1. Water** 2 Alkalinity (as CaCO3) mg/l IS 3025 (Part 23): 1986 200 600 163.43 Anionic surface active agents 3 mg/l IS 13428 : (Annex K): 2005 (as MBAS) 0.2 1.0 BDL (DL - 0.01) 4 Colour Hazen units IS 3025 (Part 4): 2021 5 15 1 5 Cyanide (as CN) mg/l IS 3025 (Part 27): 1986 0.05 No relaxation BDL (DL - 0.005) 6 Chloride (as Cl) mg/l IS 3025 (Part 32) :1988 250 1000 32.68 7 Calcium (as Ca) mg/l IS 3025 (Part 40): 1991 75 200 51.29 8 Free residual chlorine mg/l IS 3025 (Part 26) : 2021 Min. 0.2 1 BDL(DL - 0.1)9 Fluoride (as F) mg/l IS 3025 (Part 60) : 2008 1.0 1.5 0.16 10 Magnesium (as Mg) IS 3025 (Part 46) : 1994 mg/l 30 100 12.67 11 Nitrate (as NO3) APHA method 23rd edition: 2017 mg/l 45 No relaxation 5.26 12 Odour -IS 3025 (Part 5) : 2018 Agreeable Agreeable Agreeable 13 pH . IS 3025 (Part 11): 2022 6.5 to 8.5 No relaxation 6.87 at 25°C 14 Phenolic compounds (as C6H5OH) mg/l IS 3025 (Part 43): 2022 0.001 0.002 BDL (DL - 0.001) 15 Sulphate (as SO4) mg/l IS 3025 (Part 24) : 2022 200 400 21.43 16 Taste IS 3025 (Part 8): 1984 Agreeable Agreeable Agreeable 17 Total dissolved solids mg/l IS 3025 (Part 16): 1984 500 2000 297 18 Turbidity NTU IS 3025 (Part 10) : 1984 1 5 0.4 19 Total hardness (as CaCO₃) mg/l IS 3025 (Part 21): 2009 200 600 180.24

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager

Pooja Kathane

Authorized Signatories

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

FP-34, 35, Food Park, Five Star Industral Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122







Test Report

ULR No.- TC545823000001289F

Test Report No. : A	LPL/3105202	23/3-15/	A d	ated 31/05	/2023		Page 2 of 3
Issued To : '					052023/Mon-3/60-GW15	Analysis Start	24/05/2023
(M/s TATA Steel L Noamundi, Jharkha Postal Code: 83321	imited) nd	Refer	rd Date ence ence Date	23/05/20 W.O 47 22.03.20	/00098928/962	Analysis End Report Issue I Sample Categ	
Sample Name Ground Water	Sample S Dugw		Sample Part Sample Code-	and the state of the	Location Co-or Lat: 22°8'54.89"N, Lon		Quantity Received 5.0 Ltr & 250 ml
Sample Co Anacon Representat		n Giri	Sampling 18/05/20		Sampling Time 11.20 am to 4.10 pm	Sa	mpling Location Mahudi Village ilway Station Road)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat	ment as per 500 : 2012 ter Specifications) nendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
п	Chemical Testing 2. Residues In Water					
20	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.05
27	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)

Please refer last Page for Note and Remarks.

Verified By

S. (combe

Mangesh Fande Technical Manager

Yogesh Kombe Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S.D. Garway

Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

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 + 91 8045685558 Email : info@anacon.in







Test Report

Issue	d To :	_PL/31052023/3-	mple Inward No	dated 31/0		on-3/60-GW15	1		age 3 of 3		
	Noamundi Iror	3.41				n-3/00-GW15	Ana	lysis Start	24/05/2023		
	TATA Steel Li	mited)	ward Date	23/05/20			Ana	lysis End	30/05/2023		
	undi, Jharkhan		ference	W.O 4	700098928	8/962	Repo	ort Issue Dat	e 31/05/2023		
	l Code: 833217		ference Date	22.03.20	22			ple Category			
	mple Name	Sample Source	Sample P	articulars		1					
	ound Water	Dugwell	Se and an and a second second second	of earlier and the state of the second state		Location Co-ord			Quantity Receiv		
0.				de-GW-15	19	.º8'54.89"N, Long	: 85°31	'8.03"E	5.0 Ltr & 250 m	ıl	
4.00	Sample Col		Sampli	ng Date	S	ampling Time		Samp	ling Location		
Ana	con Representati	ve Mr. Sovan Giri	18/05	/2023	11	20 am to 4.10 pm		Ma	hudi Village		
			10/00			20 ani to 4.10 pm		(Railwa	(Railway Station Road)		
-			1	TEST RE	ESULTS			A. C.			
	1					Requirer					
S.N.	Test Pe	arameter	Measurement	Test Meth	ad I	IS 105					
~	rest r.			l est Meth	ioa	(Drinking Water Specifi Including Amendment		cifications)	Test Res	ult	
						cceptable Limit		ent No. 4 nissible Limi			
34	Pesticide Resid	ues Organochlori	ne		A	cceptable Limit	Perr	nissible Limi	t#		
i	Alpha-HCH		μg/l	ANtr/7.2/RES	5/01:2018	0.01	1	No relaxation	DDI (DI	0.01	
ii	Beta HCH		μg/1	ANtr/7.2/RES			_	No relaxation	BDL (DL -		
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES				No relaxation	BDL (DL - BDL (DL -		
iv	Delta- HCH		μg/l	ANtr/7.2/RES/01: 2				No relaxation			
v	Alachlor		μg/l	ANtr/7.2/RES/01: 2			_	No relaxation	BDL (DL -		
vi	Aldrin		µg/l	ANtr/7.2/RES			_	No relaxation	BDL (DL -)		
	Dieldrin		μg/l	ANtr/7.2/RES		0.03	_	No relaxation	BDL (DL - (
	Butachlor		μg/l	ANtr/7.2/RES		125	_	No relaxation	BDL (DL - (
	p.p'-DDE		μg/l	ANtr/7.2/RES		1	-	No relaxation	BDL (DL - (
	o,p'-DDE		μg/l	ANtr/7.2/RES		1	_	No relaxation	BDL (DL - (
	p,p'-DDD		μg/l	ANtr/7.2/RES		1		No relaxation	BDL (DL - (
	o,p'-DDD		μg/l	ANtr/7.2/RES		1		No relaxation	BDL (DL - (
	o,p'- DDT			ANtr/7.2/RES	/01:2018	1		No relaxation	BDL (DL - (
	p,p'- DDT			ANtr/7.2/RES		1	_	No relaxation	BDL (DL - (
	Monocrotophos			ANtr/7.2/RES		1		No relaxation	BDL (DL - C		
	Atrazine		μg/l	ANtr/7.2/RES	/01:2018	2		No relaxation	BDL (DL - 0		
	Parathion methyl			ANtr/7.2/RES		0.3		No relaxation	BDL (DL - 0		
	Paraoxon methyl	A.		ANtr/7.2/RES		-		-	BDL (DL - 0		
	Malathion		µg/l	ANtr/7.2/RES	/01:2018	190	N	No relaxation	BDL (DL - 0	0.03)	
	Malaoxon			ANtr/7.2/RES				-	BDL (DL - 0		
	Ethion			ANtr/7.2/RES	/01:2018	3	N	lo relaxation	BDL (DL - 0		
cxii	Chlorpyrifos		μg/l	ANtr/7.2/RES	01.2018	30		lo relaxation	BDL (DL - 0		

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

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Yogesh Kombe

in order to ensure that your next experience will be senting on feedback@anacon.in



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Test Report

	Report No. : Al	_PL/310520		dated 31/05/2			Page 1 of 1			
M/s l (M/s Noan	M/s Noamundi Iron Mines M/s TATA Steel Limited) Joamundi, Jharkhand Postal Code: 833217		Sample Inward No. ALPL/23052023/Mon-3/60-GW15 Inward Date 23/05/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022			nes Inward Date 23/05/2023 d) Reference W.O 4700098928/962			Analysis Start Analysis End Report Issue Da Sample Categor	CONTRACT CONTRACTOR AND
	mple Name ound Water	Sample Dugy		ample Particulars ample Code-GW-15	Location Co-o Lat: 22°8'54.89"N, Lor		Quantity Received 5.0 Ltr & 250 ml			
Ana	Sample Collected By Sanacon Representative Mr. Sovan Giri		Sampling Date 18/05/2023	11 20 am to 4 10 pm		mpling Location Mahudi Village Iway Station Road)				
				TEST RES	ULTS	(1111)	ing Station Road)			
S.N.	Test Param	est Parameter Measurement Test Method (Drinking Water		nent as per 00 : 2012 er Specifications) nendment No. 4	Test Result					
-						Permissible Limi	t #			
1	Mineral Oil		mg/l	ANtr/7.2/RES/06: 2018	1	No relaxation	BDL (DL - 0.001			
				1						

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

Verified By

K. lcom

Yogesh Kombe Deputy Technical Manager

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

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

ULR No TC545823000001289F	
---------------------------	--

Issued To : M/s Noamundi Iro (M/s TATA Steel L Noamundi, Jharkhar Postal Code: 83321	imited) nd	Inwaro Refere	e Inward No. d Date ence ence Date	23/05/2	700098928/962	Analysis Start Analysis End Report Issue D Sample Catego	30/05/2023 Pate 31/05/2023
Sample Name Ground Water	Sample Sou Dugwell	1.1.2. Contraction	Sample Part Sample Code		Location Co-or Lat: 22°8'52.58"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Co Anacon Representat	A CANADA CANA	Giri	Sampling 18/05/20		Sampling Time 11.20 am to 4.10 pm		mpling Location m Bin (Nr. Barrack)

TEST RESULTS Requirement as per IS 10500 : 2012 Measurement (Drinking Water Specifications) S.N. **Test Parameter Test Method** Test Result Unit Including Amendment No. 4 Acceptable Permissible Limit Limit # **Biological Testing 1. Water** I 1 Escherichia coli Per 100 ml IS 15185 : 2016 Absent Absent Absent П Chemical Testing 1. Water Alkalinity (as CaCO3) 2 mg/l IS 3025 (Part 23) : 1986 200 600 182.67 Anionic surface active agents 3 mg/l IS 13428 : (Annex K): 2005 0.2 1.0 BDL (DL - 0.01) (as MBAS) 4 Colour Hazen units IS 3025 (Part 4): 2021 5 15 1 5 Cyanide (as CN) mg/l IS 3025 (Part 27): 1986 0.05 No relaxation BDL (DL - 0.005) Chloride (as Cl) 6 mg/l IS 3025 (Part 32) :1988 250 1000 23.67 7 Calcium (as Ca) mg/l IS 3025 (Part 40) : 1991 75 200 56.31 8 Free residual chlorine mg/l IS 3025 (Part 26) : 2021 BDL (DL - 0.1) Min. 0.2 1 9 Fluoride (as F) mg/l IS 3025 (Part 60) : 2008 1.0 1.5 0.28 10 Magnesium (as Mg) IS 3025 (Part 46) : 1994 mg/l 30 100 11.24 11 Nitrate (as NO₃) mg/l APHA method 23rd edition: 2017 45 No relaxation 8.37 12 Odour IS 3025 (Part 5): 2018 -Agreeable Agreeable Agreeable 13 pH IS 3025 (Part 11): 2022 6.5 to 8.5 No relaxation 6.71 at 25°C 14 Phenolic compounds (as C6H5OH) mg/l IS 3025 (Part 43): 2022 0.001 0.002 BDL (DL - 0.001) 15 Sulphate (as SO₄) mg/l IS 3025 (Part 24) : 2022 200 400 23.63 Taste 16 IS 3025 (Part 8): 1984 -Agreeable Agreeable Agreeable 17 Total dissolved solids mg/l IS 3025 (Part 16): 1984 500 2000 463 18 Turbidity NTU IS 3025 (Part 10): 1984 1 5 0.3 19 Total hardness (as CaCO₃) IS 3025 (Part 21) : 2009 mg/l 200 600 186.92

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut

Deputy Technical Manager

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Pooia Kathane Technical Manager

Authorized Signatories

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Dr. (Mrs.) S.D. Garway Quality Manager

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ULR No.- TC545823000001289F

Issued To :		Sample Inward No.		ALPL/23	3052023/Mon-3/60-GW16	Analys	is Start	24/05/2023
(M/s TATA Steel Limited) Noamundi, Jharkhand		Inward Date		23/05/2		Report Issue Date		30/05/2023
		Refer Refer	vence W.O 4700098928/962 vence Date 22.03.2022					31/05/2023 Water
Sample Name Ground Water	Sample Se Dugwe		Sample Part Sample Code-		Location Co-or Lat: 22°8'52.58"N, Long	on Co-ordinates		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri		Giri	Sampling Date 18/05/2023		Sampling Time 11.20 am to 4.10 pm	Sampling Lo Bottom Bin (Nr		ing Location Bin (Nr. Barrack)
				TEST R	ESULTS			

Test Report

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 105 (Drinking Wat Including Ar	Test Result	
				Acceptable Limit	Permissible Limit #	
п	Chemical Testing 2. Residues In Water			AV.		
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 1988	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1.0	No relaxation	0.10
27	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL-0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)

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Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager

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Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000001289F

Test Report No. : A	LPL/3105202	3/3-16A	d d	ated 31/05	/2023		Page 3 of 3
Issued To :		Samp	le Inward No.	ALPL/23	052023/Mon-3/60-GW16	Analysis Start	24/05/2023
M/s Noamundi Iron Mines (M/s TATA 'Steel Limited) Noamundi, Jharkhand		Refer	Inward Date Reference		23 700098928/962	Analysis End Report Issue D	30/05/2023 ate 31/05/2023
Postal Code: 83321	7	Refer	ence Date	22.03.20	22	Sample Catego	ry Water
Sample Name Ground Water	Sample Se Dugwe	213-21-21-21-21-21-21-21-21-21-21-21-21-21-	Sample Part Sample Code-	115 200 ave 20 40 - 000	Location Co-or Lat: 22°8'52.58"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri		Giri	Sampling Date 18/05/2023		Sampling Time 11.20 am to 4.10 pm	Sai	npling Location n Bin (Nr. Barrack)

TEST RESULTS

S.N.	Test Parameter	Test Parameter Measurement Unit		Require IS 105 (Drinking Wat Including Ar	Test Result	
34	Pesticide Residues Organoch	lorine		Acceptable Limit	Permissible Limit #	
i	Alpha-HCH	μg/1	ANtr/7.2/RES/01: 20	18 0.01		DDL (DL)AAAA
ii	Beta HCH	μg/1	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.01)
iii	Gamma - HCH (Lindane)	μg/1	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
v	Alachlor			0101	No relaxation	BDL (DL - 0.03)
vi	Aldrin'	μg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
vii	Dieldrin	µg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
		μg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
ix	p,p'-DDE	μg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
x	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 20		No relaxation	BDL (DL - 0.03)
xi	p,p'-DDD	µg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)
xiii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)
XV	Monocrotophos		ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)
xvi	Atrazine		ANtr/7.2/RES/01: 20	18 2	No relaxation	BDL (DL - 0.03)
xvii	Parathion methyl		ANtr/7.2/RES/01: 20	-	No relaxation	
xviii	Paraoxon methyl		ANtr/7.2/RES/01: 20		NOTCIAXATION	BDL (DL - 0.03)
xix	Malathion		ANtr/7.2/RES/01: 20		- No estavation	BDL (DL - 0.03)
XX	Malaoxon		ANtr/7.2/RES/01: 20	170	No relaxation	BDL (DL - 0.03)
xxi	Ethion		ANtr/7.2/RES/01: 20		- 	BDL (DL - 0.03)
xxii	Chlorpyrifos		ANtr/7.2/RES/01: 201	-	No relaxation	BDL (DL - 0.03)
		μg/1	ANU/7.2/KES/01:201	8 30	No relaxation	BDL (DL - 0.03)

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

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Verified By

33. Iconhe

Yogesh Kombe Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S.D. Garway

Deputy Technical Manager Thanks For putting in your faith and trust in our services. We at Anacon Laboratories cherish our relationship. We put in a lot of hard work to ensure that your performance will be provided by the bard of our relationship. in order to ensure that your next experience will be significantly better, we welcome your feedback over email on feedback@anacon.in



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Test Report

Issued To :		Samp	le Inward No.	ALPL/23	3052023/Mon-3/60-GW16	Analysis Start	24/05/2023
(M/s TATA Steel Limited) Noamundi, Jharkhand		Inward Date		23/05/2023		Analysis End	30/05/2023
		Refer Refer	rence W.O 4 rence Date 22.03.2		700098928/962 022	Report Issue Da Sample Categor	
Sample Name Ground Water	Sample S Dugw	A CONTRACTOR	Sample Part Sample Code-		Location Co-or Lat: 22°8'52.58"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr. Sovan Giri		Sampling Date 18/05/2023		Sampling Time 11.20 am to 4.10 pm		pling Location Bin (Nr. Barrack)	

S.N.	N. Test Parameter Measur Un		Test Method	Requirer IS 105 (Drinking Wat Including An	Test Result	
				Acceptable Limit	Permissible Limit #	
1	Mineral Oil	mg/l	ANtr/7.2/RES/06: 2018	1	No relaxation	BDL (DL - 0.001

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

Verified By

MS. Kontre

Yogesh Kombe Deputy Technical Manager

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

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Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

ULR No.- TC545823000002497F

Test Report No. : A	LPL/31082023/3	-13A da	ated 31/0	8/2023	Page 1 of 3		
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		eference W.O.		/24082023/Mon-2/60-GW13 /2023 - 4700098928/962 .2022	Analysis Start Analysis End Report Issue De Sample Categor		
Sample Name Ground Water	Sample Sour Dugwell	ce Sample Parti Sample Code-		Location Co-or Lat: 22°9'30.46"N, Long	Contract of the second second second	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative		Sampling I 18/08/202		Sampling Time 11.40 am to 4.25 pm	in the second second	mpling Location i Basti (Nr. Play Ground)	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	TEST RESULTS Test Method	Requirem IS 1050 (Drinking Wate Including Am	0 : 2012 r Specifications)	Test Result
				Acceptable Limit	Permissible Limit #	
I	Biological Testing 1. Water	<i>1</i> 1		N.		
1	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
П	Chemical Testing 1. Water	and the second second				
2	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23) : 1986	200	600	164.28
3	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)
4	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	1
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.05	No relaxation	BDL (DL - 0.005)
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	1000	28.75
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	47.53
8	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL - 0.1)
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	0.31
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	100	11.96
11	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	7.53
12	Odour	-	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
13	pH	21	IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	6.91 at 25°C
14	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) : 2022	0.001	0.002	BDL (DL - 0.001)
15	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	21.43
16	Taste	4 m	IS 3025 (Part 8) : 1984	Agreeable	Agreeable	Agreeable
17	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	2000	472
18	Turbidity	NTU	IS 3025 (Part 10) : 1984	1	5	0.3
19	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	167.92

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Kathane **Technical Manager**

Dr. (Mrs.) S.D. Garway Quality Manager

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 endeavor towards ensuring that your next experienced will be significantly better than the current one, we welcome your feedback on <u>feedback@anacon.in</u>

Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

ULR No.- TC545823000002497F

Test Report No. : A	LPL/3108202	3/3-13A	da da	ited 31/0	8/2023		Page 2 of 3
ssued To : M/s Noamundi Iron Mines M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Inwar Refer	Inward Date 24/08 Reference W.O.		/24082023/Mon-2/60-GW13 /2023 - 4700098928/962 .2022	Analysis Start Analysis End Report Issue Da Sample Catego	
Sample Name Ground Water	Sample S Dugwe		Sample Parti Sample Code-		Location Co-or Lat: 22°9'30.46"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative			Sampling Date 18/08/2023		Sampling Time 11.40 am to 4.25 pm	1 I Ford	mpling Location i Basti (Nr. Play Ground

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	IS 1050 (Drinking Wate	ient as per 0 : 2012 r Specifications) endment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
п	Chemical Testing 2. Residues In Water					
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001
26	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.15
27	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager

Radha Pawar Chemist

Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

Test Report No. : A	LPL/3108202	23/3-13A	A da	ated 31/0	8/2023		Page 3 of 3
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Inwa Refer	ward Date 24/08 eference W.O.		/24082023/Mon-2/60-GW13 /2023 - 4700098928/962 .2022	Analysis Start Analysis End Report Issue D Sample Catego	
Sample Name Ground Water	Sample S Dugw		Sample Partie Sample Code-0		Location Co-or Lat: 22°9'30.46"N, Long		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative			Sampling Date 18/08/2023		Sampling Time 11.40 am to 4.25 pm		mpling Location i Basti (Nr. Play Ground

TEST RESULTS

			TEST RESUL	TS			
S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4			Test Result
				Acce	eptable Limit	Permissible Limit #	1
35	Pesticide Residues Organoch					0	
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 2	100 P. 100 P.	0.01	No relaxation	BDL (DL - 0.01
ii	Beta HCH	μg/l	ANtr/7.2/RES/01:2	2000 CAR.	0.04	No relaxation	BDL (DL - 0.03
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01:2	2018	2	No relaxation	BDL (DL - 0.03)
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01: 2	2018	0.04	No relaxation	BDL (DL - 0.03
v	Alachlor	μg/l	ANtr/7.2/RES/01: 2	2018	20	No relaxation	BDL (DL - 0.03
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 2	2018	0.03	No relaxation	BDL (DL - 0.03
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 2	2018	0.03	No relaxation	BDL (DL - 0.03
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 2	2018	125	No relaxation	BDL (DL - 0.03
ix	p,p'-DDE	μg/1	ANtr/7.2/RES/01: 2	2018	1	No relaxation	BDL (DL - 0.03
х	o,p'-DDE	μg/1	ANtr/7.2/RES/01:2	2018	1	No relaxation	BDL (DL - 0.03
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 2	2018	1	No relaxation	BDL (DL - 0.03
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2	2018	1	No relaxation	BDL (DL - 0.03
xiii	o,p'- DDT	μg/1	ANtr/7.2/RES/01: 2	2018	1	No relaxation	BDL (DL - 0.03
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 2	2018	1	No relaxation	BDL (DL - 0.03
XV	Monocrotophos	μg/l	ANtr/7.2/RES/01: 2	2018	1	No relaxation	BDL (DL - 0.03
xvi	Atrazine	μg/l	ANtr/7.2/RES/01: 2	2018	2	No relaxation	BDL (DL - 0.03
xvii	Parathion methyl	µg/l	ANtr/7.2/RES/01: 2	2018	0.3	No relaxation	BDL (DL - 0.03
xviii	Paraoxon methyl	µg/l	ANtr/7.2/RES/01: 2	2018	-	-	BDL (DL - 0.03)
xix	Malathion	µg/l	ANtr/7.2/RES/01: 2	2018	190	No relaxation	BDL (DL - 0.03)
XX	Malaoxon	μg/1	ANtr/7.2/RES/01: 2	2018		(#3)	BDL (DL - 0.03)
xxi	Ethion	µg/l	ANtr/7.2/RES/01: 2	2018	3	No relaxation	BDL (DL - 0.03
xxii	Chlorpyrifos	μg/l	ANtr/7.2/RES/01: 2	2018	30	No relaxation	BDL (DL - 0.03)
					1000		

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Radha Pawar Chemist

Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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 endeavor towards ensuring that your next experienced will be significantly better than the current one, we welcome your feedback on <u>feedback@anacon.in</u>

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Test Report

ULP No. TC545823000002497E

Test Report No. : A	LPL/31082023/3	-14A dat	ted 31/0	8/2023		Page 1 of 3	
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Sample Inward No.ALPIInward Date24/08ReferenceW.O.		24082023/Mon-2/60-GW14 /2023 - 4700098928/962 .2022	Analysis Start Analysis End Report Issue D Sample Catego		
Sample Name Ground Water	Sample Sour Dugwell	ce Sample Partic Sample Code-C			Location Co-ordinates : 22°9'25.41"N, Long: 85°30'21.34"E		
Sample Co Anacon Rep				Sampling Time 11.40 am to 4.25 pm	Construction of the second sec	Sampling Location Noamundi Bazar (Nr. Petrol Pump)	
		1	TEST R	ESULTS			

Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Measurement **Test Method Test Result** S.N. **Test Parameter Including Amendment No. 4** Unit Acceptable Permissible Limit # Limit **Biological Testing 1. Water** I Absent Per 100 ml IS 15185 : 2016 Absent Absent Escherichia coli 1 Chemical Testing 1. Water П 183.76 Alkalinity (as CaCO₃) mg/l IS 3025 (Part 23): 1986 200 600 2 Anionic surface active agents 0.2 1.0 BDL(DL - 0.01)IS 13428 : (Annex K): 2005 3 mg/l (as MBAS) 15 Hazen units IS 3025 (Part 4) : 2021 5 4 Colour BDL (DL - 0.005) IS 3025 (Part 27): 1986 0.05 No relaxation Cyanide (as CN) mg/l 5 IS 3025 (Part 32) :1988 250 1000 27.43 Chloride (as Cl) 6 mg/l IS 3025 (Part 40): 1991 75 200 51.64 Calcium (as Ca) mg/l 7 IS 3025 (Part 26) : 2021 Min. 0.2 1 BDL(DL - 0.1)Free residual chlorine mg/l 8 9 Fluoride (as F) mg/l IS 3025 (Part 60): 2008 1.0 1.5 0.31 12.58 100 10 Magnesium (as Mg) mg/l IS 3025 (Part 46): 1994 30 9.36 APHA method 23rd edition: 2017 45 No relaxation 11 Nitrate (as NO₃) mg/l Agreeable IS 3025 (Part 5): 2018 Agreeable Agreeable 12 Odour -6.81 at 25°C 6.5 to 8.5 No relaxation IS 3025 (Part 11) : 2022 13 pH BDL (DL - 0.001) 0.002 Phenolic compounds (as C6H5OH) IS 3025 (Part 43) : 2022 0.001 14 mg/l 18.43 200 400 15 Sulphate (as SO₄) mg/l IS 3025 (Part 24) : 2022 Agreeable Agreeable IS 3025 (Part 8): 1984 Agreeable 16 Taste . 2000 428 500 Total dissolved solids mg/l IS 3025 (Part 16): 2023 17 IS 3025 (Part 10): 1984 1 5 0.6 Turbidity NTU 18 200 600 180.74 Total hardness (as CaCO₃) mg/l IS 3025 (Part 21): 2009 19

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

an

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test Report No. : A	LPL/31082023/3	-14A	dated 31/0	08/2023	P	age 2 of 3
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Sample Inward No.ALIInward Date24/ReferenceW.4		/24082023/Mon-2/60-GW14 /2023 - 4700098928/962 .2022	Analysis Start Analysis End Report Issue Dat Sample Category	
Sample Name Ground Water	Sample Sour Dugwell		ole Particulars e Code-GW-14	Location Co-ordinates Lat: 22°9'25.41"N, Long: 85°30'21.34"E		Quantity Received 5.0 Ltr & 250 ml
Sample Co Anacon Rep	and the second se		mpling Date 8/08/2023	Sampling Time 11.40 am to 4.25 pm		npling Location Bazar (Nr. Petrol Pump)

			TEST RESULTS			
S.N.	Test Parameter	Measurement	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
п	Chemical Testing 2. Residues In Water					
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
26	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.06
27	Lead (as Pb)	mg/l	IS 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	. 0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)
30	Selenium (as Se)	mg/l	1S 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

pers Mangesh Fande Technical Manager

Radha Pawar

Chemist

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

Test Report No. : A	LPL/31082023/3-	-14A da	ted 31/0	8/2023	i.	Page 3 of 3
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Sample Inward No.ALPIInward Date24/08ReferenceW.O.		24082023/Mon-2/60-GW14 /2023 - 4700098928/962 .2022	Analysis Start Analysis End Report Issue D Sample Catego	
Sample Name Ground Water	Sample Source Dugwell	ce Sample Partie Sample Code-C			Location Co-ordinates Lat: 22°9'25.41"N, Long: 85°30'21.34"E	
Sample Co Anacon Rep	ollected By presentative	Sampling D 18/08/202		Sampling Time 11.40 am to 4.25 pm		ampling Location i Bazar (Nr. Petrol Pump)

TEST RESULTS Requirement as per IS 10500 : 2012 Measurement (Drinking Water Specifications) **Test Result Test Method** S.N. **Test Parameter** Unit **Including Amendment No. 4** Acceptable Limit | Permissible Limit # 35 **Pesticide Residues Organochlorine** ANtr/7.2/RES/01: 2018 BDL (DL - 0.01) 0.01 No relaxation Alpha-HCH i $\mu g/l$ ANtr/7.2/RES/01: 2018 0.04 No relaxation BDL (DL - 0.03) Beta HCH ii µg/l BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 No relaxation 2 Gamma - HCH (Lindane) iii µg/l ANtr/7.2/RES/01: 2018 0.04 BDL (DL - 0.03) No relaxation Delta-HCH µg/l iv 20 BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 No relaxation v Alachlor µg/l 0.03 No relaxation BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 Aldrin µg/l vi ANtr/7.2/RES/01: 2018 0.03 No relaxation BDL (DL - 0.03) vii Dieldrin µg/l ANtr/7.2/RES/01: 2018 125 No relaxation BDL (DL - 0.03) Butachlor $\mu g/l$ viii ANtr/7.2/RES/01: 2018 BDL (DL - 0.03) p,p'-DDE $\mu g/l$ 1 No relaxation ix ANtr/7.2/RES/01: 2018 1 No relaxation BDL (DL - 0.03) µg/l x o,p'-DDE ANtr/7.2/RES/01: 2018 1 No relaxation BDL (DL - 0.03) p.p'-DDD µg/l xi ANtr/7.2/RES/01: 2018 BDL (DL - 0.03) 1 No relaxation xii o,p'-DDD µg/l o.p'- DDT ANtr/7.2/RES/01: 2018 1 No relaxation BDL (DL - 0.03) µg/l xiii BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 1 No relaxation p,p'- DDT µg/l xiv BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 1 No relaxation Monocrotophos $\mu g/l$ XV BDL (DL - 0.03) µg/l ANtr/7.2/RES/01: 2018 2 No relaxation xvi Atrazine ANtr/7.2/RES/01: 2018 0.3 No relaxation BDL (DL - 0.03) Parathion methyl µg/l xvii BDL (DL - 0.03) Paraoxon methyl $\mu g/l$ ANtr/7.2/RES/01: 2018 xviii Malathion µg/l ANtr/7.2/RES/01: 2018 190 No relaxation BDL (DL - 0.03) xix ANtr/7.2/RES/01: 2018 BDL (DL - 0.03) Malaoxon µg/l XX 3 BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 No relaxation Ethion $\mu g/l$ xxi 30 BDL (DL - 0.03) ANtr/7.2/RES/01: 2018 No relaxation Chlorpyrifos µg/l xxii

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Radha Pawar

Authorized Signatory

Dr. (Mrs.) S.D. Garway

Chemist Quality Manager 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 experienceButereReptage of your interaction with us. In our constant endeavor towards ensuring that your next experienced will be significantly better than the current one, we welcome your feedback on feedback@anacon.in

Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Anacon Laboratories





TC 5458

Test Report

ULR No.- TC545823000002497F

Issued To : M/s Noamundi Iro (M/s TATA Steel L Noamundi, Jharkhau Postal Code: 83321'	imited) nd	Inward Referen		24/08/20	700098928/962	Ana Rep	alysis Start alysis End port Issue Dat aple Category	
Sample Name Ground Water	Sample So Dugwel		Sample Pa Sample Cod	Contraction of the second of the		on Co-ordinate)"N, Long: 85°3	Chrometer and a second second	Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative			Sampling Date 18/08/2023		Sampling 11.40 am to		Sampling Location Mahudi Village (Railway Station Road)	
				TEST R	ESULTS			
						Require	ment as per	

S.N.	Test Parameter	Measurement Unit	Test Method	IS 1050 (Drinking Water Including Ame	Test Result		
			-	Acceptable Limit	Permissible Limit #		
Ι	Biological Testing 1. Water						
1	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent	
П	Chemical Testing 1. Water		and the second			22 M	
2	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23) : 1986	200	600	176.28	
3	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL - 0.01)	
4	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	1	
5	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.05	No relaxation	BDL (DL - 0.005)	
6	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	1000	28.46	
7	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	53.91	
8	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL – 0.1)	
9	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	0.21	
10	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	100	13.42	
11	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	5.76	
12	Odour		IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable	
13	pH		IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	7.13 at 25°C	
14	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) : 2022	0.001	0.002	BDL (DL - 0.001)	
15	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	18.46	
16	Taste	-	IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable	
17	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	2000	452	
18	Turbidity	NTU	IS 3025 (Part 10) : 1984	1	5	0.3	
19	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	189.87	

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

am

Dr. (Mrs.) S.D. Garway Quality Manager

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♥ + 91 8045685558 ☎ Email : info@anacon.in







Test Report

ULR No.- TC545823000002497F

	Page 2 of 3
lysis End 3	24/08/2023 31/08/2023 31/08/2023
pre emigery	Water
2) Ltr & 250 ml
Sampling Location Mahudi Village (Railway Station Road)	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requiren IS 105 (Drinking Wat Including An	Test Result	
				Acceptable Limit	Permissible Limit #	
п	Chemical Testing 2. Residues In Water			7		
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL - 0.01)
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)
22	Barium (as Ba)	mg/l	IS 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL - 0.01)
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
24	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
25	Cadmium (as Cd)	mg/l	1S 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001
26	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1.0	No relaxation	0.20
27	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001)
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.1)
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL – 0.1)

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager

Radha Pawar Chemist

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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TC 5458

Test Report

ULR No.- TC545823000002497F

S.N.	Test P	arameter		Measurement	Test Meth	od (D	Requiremen IS 10500 : rinking Water S	2012	Test Result
					TEST RE	SULTS			
	Sample Col Anacon Rep		-	Sampling 18/08/2	023	11.40 am	ing Time to 4.25 pm	Mahudi Vill	
and the second sec	ole Name nd Water	Sample So Dugwe		Sample Par Sample Code	A supply have a supply a		ation Co-ordina .89"N, Long: 85		Quantity Received 5.0 Ltr & 250 ml
(M/s TA Noamur	Fo : amundi Iron ATA Steel Li adi, Jharkhar Code: 833217	mited) Id	Inwa Refe	ple Inward No. ard Date rence rence Date	24/08/20	00098928/962	A	nalysis Start nalysis End eport Issue Date ample Category	24/08/2023 31/08/2023 31/08/2023 Water
Test Rep	port No. : Al	_PL/3108202	3/3-15	A	dated 31/08	/2023			Page 3 of 3

		Unit		Including An	nendment No. 4		
-				Acceptable Limit	Permissible Limit #		
35	Pesticide Residues Organochlo	rine		A LAND			
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 20	0.01	No relaxation	BDL (DL - 0.01)	
ii	Beta HCH	μg/l	ANtr/7.2/RES/01: 20	0.04	No relaxation	BDL (DL - 0.03)	
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 20	18 2	No relaxation	BDL (DL - 0.03)	
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01: 20	0.04	No relaxation	BDL (DL - 0.03)	
v	Alachlor	μg/l	ANtr/7.2/RES/01: 20	18 20	No relaxation	BDL (DL - 0.03)	
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 20	0.03	No relaxation	BDL (DL - 0.03)	
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 20	0.03	No relaxation	BDL (DL - 0.03)	
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 20	18 125	No relaxation	BDL (DL - 0.03)	
ix	p,p'-DDE	μg/1	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
х	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
xii	o,p'-DDD	μg/1	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
xiii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
XV	Monocrotophos	μg/l	ANtr/7.2/RES/01: 20	18 1	No relaxation	BDL (DL - 0.03)	
xvi	Atrazine	μg/l	ANtr/7.2/RES/01: 20	18 2	No relaxation	BDL (DL - 0.03)	
xvii	Parathion methyl	μg/l	ANtr/7.2/RES/01: 20	18 0.3	No relaxation	BDL (DL - 0.03)	
xviii	Paraoxon methyl	μg/l	ANtr/7.2/RES/01: 20	- 18	-	BDL (DL - 0.03)	
xix	Malathion	μg/l	ANtr/7.2/RES/01: 20	18 190	No relaxation	BDL (DL - 0.03)	
XX	Malaoxon	μg/l	ANtr/7.2/RES/01: 20	- 18	-	BDL (DL - 0.03)	
xxi	Ethion	μg/l	ANtr/7.2/RES/01: 20	18 3	No relaxation	BDL (DL - 0.03)	
xxii	Chlorpyrifos	μg/l	ANtr/7.2/RES/01: 20	18 30	No relaxation	BDL (DL - 0.03)	

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Authorized Signatory

Gan

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Test Report

ULR No.- TC545823000002497F

1082023/3-16A	d d				Page 1 of 3
	Inward Date 24/08/20 Reference W.O 47		082023/Mon-2/60-GW16	Analysis Start	24/08/2023
es Inwar			023	Analysis End	31/08/2023
mple Source Dugwell			CALCULATION OF A CALCUL	and the second se	Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative			Sampling Time 11.40 am to 4.25 pm	ALCONTRACT, ALCONTRACT,	n pling Location n Bin (Nr. Barrack)
1	es Samp Inwar Refer Refer Dugwell By	es Inward Date Reference Reference Date Dugwell Sample Code- By Sample Source Sample Code-	es Inward No. ALPL/24 es Inward Date 24/08/20 Reference W.O4 Reference Date 22.03.20 mple Source Sample Particulars Dugwell Sample Code-GW-16 By Sampling Date	es Inward No. ALPL/24082023/Mon-2/60-GW16 Inward Date 24/08/2023 Reference Date 22.03.2022 mple Source Sample Particulars Location Co-o Dugwell Sample Code-GW-16 Lat: 22°8'52.58"N, Lon By Sampling Date Sampling Time	Sample Inward No. ALPL/24082023/Mon-2/60-GW16 Analysis Start es Inward Date 24/08/2023 Analysis End Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Categor mple Source Sample Particulars Location Co-ordinates Dugwell Sample Code-GW-16 Lat: 22°8'52.58"N, Long: 85°30'28.50"E By Sampling Date Sampling Time Sampling Time

Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Measurement **Test Result Test Method** S.N. **Test Parameter Including Amendment No. 4** Unit Permissible Acceptable Limit # Limit **Biological Testing 1. Water** I Absent IS 15185 : 2016 Absent Absent Per 100 ml Escherichia coli 1 Chemical Testing 1. Water П 192.36 IS 3025 (Part 23) : 1986 200 600 Alkalinity (as CaCO3) mg/l 2 Anionic surface active agents 0.2 1.0 BDL (DL - 0.01) mg/l IS 13428 : (Annex K): 2005 3 (as MBAS) 5 15 1 IS 3025 (Part 4) : 2021 Hazen units 4 Colour No relaxation BDL (DL - 0.005) IS 3025 (Part 27): 1986 0.05 mg/l 5 Cyanide (as CN) 250 1000 26.17 IS 3025 (Part 32) :1988 mg/l 6 Chloride (as Cl) 51.29 IS 3025 (Part 40) : 1991 75 200 mg/l 7 Calcium (as Ca) BDL (DL - 0.1) IS 3025 (Part 26) : 2021 Min. 0.2 1 mg/l 8 Free residual chlorine 1.5 0.24 IS 3025 (Part 60) : 2008 1.0 mg/l 9 Fluoride (as F) 100 12.68 IS 3025 (Part 46) : 1994 30 mg/l 10 Magnesium (as Mg) No relaxation 9.17 APHA method 23rd edition: 2017 45 mg/l 11 Nitrate (as NO3) IS 3025 (Part 5) : 2018 Agreeable Agreeable Agreeable 12 Odour -6.82 at 25°C No relaxation -IS 3025 (Part 11): 2022 6.5 to 8.5 13 pH BDL (DL - 0.001) 0.001 0.002 IS 3025 (Part 43) : 2022 Phenolic compounds (as C6H5OH) mg/l 14 400 200 24.73 Sulphate (as SO₄) mg/l IS 3025 (Part 24): 2022 15 Agreeable Agreeable Agreeable IS 3025 (Part 8): 1984 Taste -16 472 2000 IS 3025 (Part 16): 2023 500 17 Total dissolved solids mg/l 0.6 1 5 NTU IS 3025 (Part 10) : 1984 Turbidity 18 600 180.28 200 IS 3025 (Part 21): 2009 Total hardness (as CaCO₃) mg/l 19

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut

Deputy Technical Manager

Pooja Kathane

Technical Manager

Authorized Signatories

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

Test Report No. : A	LPL/31082023	/3-16A	d	ated 31/0	8/2023	.*	Page 2 of 3	
Issued To : M/s Noamundi Iron Mines (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Sampl Inwar Refere	vard Date 24/08/2		700098928/962	Analysis Start Analysis End Report Issue E Sample Catego	31/08/2023 Date 31/08/2023	
Sample Name Ground Water	Sample So Dugwe	1000	Sample Part Sample Code-		Location Co-ordinates Lat: 22°8'52.58"N, Long: 85°30'28.50"E		Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative			Sampling Date 18/08/2023		Sampling Time 11.40 am to 4.25 pm		Sampling Location Bottom Bin (Nr. Barrack)	

			TEST RESULTS				
S.N.	Test Parameter	Measurement Unit	Test Method	Required IS 105 (Drinking Wat Including Ar	Test Result		
				Acceptable Limit	Permissible Limit #		
п	Chemical Testing 2. Residues In Water						
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 1988	0.01	No relaxation	BDL (DL - 0.01)	
21	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019	0.03	0.2	BDL (DL - 0.01)	
22	Barium (as Ba)	mg/l	IS 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL - 0.01)	
23	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)	
24	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)	
25	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)	
26	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.16	
27	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)	
28	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)	
29	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.0005)	
30	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001)	
31	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)	
32	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.1)	
33	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/06: 2018	0.1	No relaxation	BDL(DL-0.03)	
34	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL – 0.1)	

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager

Radha Pawar Chemist

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

	the second se	LPL/31082023/3-1		dated 31/0			1	Page 3	of 3	
	ed To :		mple Inward No	. ALPL/24	082023/Mor	1-2/60-GW16	Analysis Start	2	24/08/2023	
	Noamundi Iroi		ward Date 24/08/2023 eference W.O 4700098928/962				Analysis End 31/08/2023			
	TATA Steel Li					Report Issue Da	ate 3	31/08/2023		
Noamundi, Jharkhand			forman Data				Sample Categor		Water	
Posta	al Code: 833217	Ke	ference Date 22.03.2022				Sumpre Suitego			
Sa	ample Name	Sample Source	Sample P	articulars		Location Co-ord	linates	Qua	antity Received	
G	round Water	Dugwell	Sample Co	de-GW-16	Lat: 22°	8'52.58"N, Long:	85°30'28.50"E	Charles) Ltr & 250 ml	
	Sample Col	llected By	Sampli	ng Date	S	ampling Time	San	nnling	Location	
	Anacon Rep	NAME AND A CONTRACTOR OF A CONTRACT OF A CON		/2023		0 am to 4.25 pm			Nr. Barrack)	
			10/00	TEST R		10 un to 4.25 pm	Botton	i Din (INI. Dallack)	
	2		÷.			Require	ment as per			
			Measurement	-			00:2012			
S.N.	Test P	arameter	Unit	Test Met	B			Test Result		
							nendment No. 4			
					A	cceptable Limit	Permissible Lin	nit #		
35		lues Organochlori								
i ii	Alpha-HCH		μg/l	ANtr/7.2/RE		0.01	No relaxatio		BDL (DL - 0.0	
iii	Beta HCH	(T : 1)	μg/l	ANtr/7.2/RE		0.04	No relaxatio		BDL (DL - 0.0.	
iv	Gamma - HCH	(Lindane)	µg/l	ANtr/7.2/RE		2	No relaxatio		BDL (DL - 0.03	
	Delta- HCH		μg/l	ANtr/7.2/RE	and the second se	0.04	No relaxatio		BDL (DL - 0.0.	
v vi	Alachlor		μg/l	ANtr/7.2/RE		20	No relaxatio		BDL (DL - 0.0.	
vii	Dieldrin		μg/l	ANtr/7.2/RE		0.03	No relaxatio		BDL (DL - 0.0)	
viii	Butachlor		µg/l	ANtr/7.2/RE		0.03	No relaxatio		BDL (DL - 0.0)	
ix			μg/l	ANtr/7.2/RE		125	No relaxatio		BDL (DL - 0.0.	
X	p,p'-DDE o,p'-DDE		μg/1	ANtr/7.2/RE		1	No relaxatio		BDL (DL - 0.0.	
xi	p,p'-DDD		μg/1	ANtr/7.2/RE		1	No relaxatio		BDL (DL - 0.0)	
xii	o,p'-DDD		μg/l μg/l	ANtr/7.2/RE	and the second se	1	No relaxatio		BDL (DL - 0.0)	
xiii	o,p'- DDT		1.5	ANtr/7.2/RE	A 10 M 2 M 2 M 2 M 2 M 2 M	1	No relaxatio		BDL (DL - 0.03	
xiv	p,p'- DDT		μg/l	ANtr/7.2/RE	The second se	1	No relaxatio		BDL (DL - 0.03	
xv	Monocrotophos	ke let	μg/l μg/l	ANtr/7.2/RE		1	No relaxatio		BDL (DL - 0.03	
xvi	Atrazine		μg/1	ANtr/7.2/RE ANtr/7.2/RE		1 2	No relaxatio		BDL (DL - 0.0.	
xvii	Parathion methy	1	μg/1	ANtr/7.2/RE			No relaxatio		BDL (DL - 0.03	
cviii	Paraoxon methy		μg/1	ANtr/7.2/RE	and the second se	0.3	No relaxatio	/n	BDL (DL - 0.03	
xix	Malathion		μg/1	ANtr/7.2/RE		190	No relaxatio		BDL (DL - 0.03	
XX	Malaoxon	A STREET, STRE	μg/l	ANtr/7.2/RE	CONTRACTOR OF THE OWNER		ino relaxatio	/n	BDL (DL - 0.03	
xxi	Ethion		μg/1 μg/1	ANtr/7.2/RE:		3	- No relaxatio		BDL (DL - 0.03	
xxii	Chlorpyrifos		μg/1	ANtr/7.2/RE:		30			BDL (DL - 0.03	
			μ <u>β</u> ι	Autur 1.2/ KE	5/01. 2010	30	No relaxatio	п	BDL (DL - 0.03	

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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Radha Pawar

Authorized Signatory

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Dr. (Mrs.) S.D. Garway

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Test Report

1

Test Report No. :	THEI E/51052	Sample Inward No.	ALPL/23052023/ENV-116- SW	t 24/05/2023			
Issued To :		•		a contraction of the second	Analysis Star		
(M/s TATA Steel Limited) Noamundi, Jharkhand		Inward Date	23/05/2023		Analysis End		
		Reference	W.O 4700098928/962	13	Report Issue Date	31/05/2023	
		Reference Date	22.03.2022		Sample Categ	ory Water	
Sample Name		Sample Source	Sample Particulars	Sample C	Condition Quantity Rece		
Surface Water	1 Balijhore Nallah Unstream (SW-15)		Sample Code-SW-1 & 2	Sealed & Ice Preserved		2.0 Ltr & 250 ml each	
Sample Collected By Sampling Date			Sampling Time	Sampling Time		Sampling Location	
Anacon Represent			12.40 & 1.20 pm	1.Balijhore Nallah Upstream (SW- 2. Downstream (SW-2)		n (SW-1)	

TEST RESULTS

				Standards as	Test Result		
S.N.	Test Parameter	Measurement Unit	Test Method	per IS 2296:1992 Class C	SW-1	SW-2	
I	Biological Testing 1.Water						
1	Total Colifom	MPN/100ml	IS 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)	
11	Chemical Testing 1.Water						
2	pH value		IS 3025 (Part 11): 1983	6.0 to 9.0	8.14 at 25°C	7.98 at 25°C	
3	Colour	Hazen units	IS 3025 (Part 4) : 2021	300	6	4	
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38) :1989	4.0	6.8	6.2	
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17):1984		BDL(DL-10)	BDL(DL-10)	
6.	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	3.0	BDL(DL-2)	BDL(DL-2)	
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006		13.6	12.4	
8	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16) : 1984	1500	417	392	
9	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	1.5	BDL(DL-0.03)	BDL(DL-0.03)	
10	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	600	48.26	43.81	
11	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 1986	400	18.24	16.52	
12	Nitrate (as NO1)	mg/l	IS 3025 (Part 34): 1988	50	9.27	7.64	
13	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.5	0.31	0.28	
14	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005)	
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) :1001	0.005	BDL(DL-0.001)	BDL(DL-0.001)	
16	Anionic Detergent	mg/l	IS 13428 : 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)	
	Chemical Testing 2. Residues	s In Water					
17	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.5	0.37	0.26	
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 41) : 1992	0.01	BDL(DL-0.001)	BDL(DL-0.001)	
19	Selenium (as Se)	mg/l	1S 3025 (Part 2): 2019	0.05	BDL(DL-0.001)	BDL(DL-0.001)	
20	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 1988	0.2	BDL(DL-0.001)	BDL(DL-0.001)	
21	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.05)	BDL(DL-0.05)	
22	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	15	BDL(DL-0.05)	BDL(DL-0.05)	
23	Hexa Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 52) :2003	1.0	BDL(DL-0.001)	BDL(DL-0.001)	
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994		BDL(DL-0.005)	BDL(DL-0.005)	
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019		BDL(DL-0.05)	BDL(DL-0.05)	

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1.

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

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

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Pooja Kathane Technical Manager

Authorized Signatories

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

Issued To :		Sample Inward No.	ALPL/24082023/ENV-200- SW	-1 & 2	Analysis Star	rt 24/08/2023
M/s Noamundi l	ron Mines	Inward Date	24/08/2023	Analysis End	d 31/08/2023	
(M/s TATA Stee Noamundi, Jhark		Reference	W.O 4700098928/962	Report Issue Date	31/08/2023	
Postal Code: 833	217	Reference Date	Date 22.03.2022		Sample Category Water	
Sample Name		Sample Source	Sample Particulars	Sample C	Quantity Received	
Surface Water		Vallah Upstream (SW-15) Vallah Downstream (SW-16)	Sample Code-SW-1 & 2	Sealed & Ic	e Preserved	2.0 Ltr & 250 ml each
Sample C	ollected By	Sampling Date	Sampling Time		Sampling	Location
	epresentative	18/08/2023	12.10 & 12.50 pm	1.Balijhore Nallah Upstream (SW-1) 2. Downstream (SW-2)		

Test Result Standards as Measurement per IS **Test Method** S.N. **Test Parameter** 2296:1992 **SW-1** SW-2 Unit Class C **Biological Testing** 1.Water I 1S 1622 : 1981 5000 BDL(DL-2) BDL(DL-2) MPN/100ml 1 Coliforn Chemical Testing 1.Water П 7.94 at 25°C 6.0 to 9.0 8.21 at 25°C IS 3025 (Part 11): 1983 pH value 2 IS 3025 (Part 4) : 2021 300 16 12 Hazen units 3 Colour 4.0 6.7 6.3 Dissolved Oxygen mg/l IS 3025 (Part 38) :1989 4 BDL(DL-10) BDL(DL-10) Total Suspended Solid (as TSS) IS 3025 (Part 17) :1984 mg/l 5 3.0 BDL(DL-2) BDL(DL-2) BOD (3 days at 27°C) IS 3025 (Part 44) :1993 mg/l 6 IS 3025 (Part 58) :2006 11.9 14.6 Chemical oxygen demand mg/l 7 1194 953 IS 3025 (Part 16) : 2023 1500 8 Total Dissolved Solids (TDS) mg/l BDL(DL-0.03) IS 3025 (Part 2): 2019 1.5 BDL(DL-0.03) 9 Copper (as Cu) mg/l 48.19 IS 3025 (Part 32) :1988 600 56.27 mg/l 10 Chloride (as Cl) 19.57 400 23.58 IS 3025 (Part 24): 1986 mg/l 11 Sulphate (as SO₄) IS 3025 (Part 34): 1988 50 12.64 9.26 mg/l 12 Nitrate (as NO3) 0.57 0.48 1.5 IS 3025 (Part 60) : 2008 13 Fluoride (as F) mg/l BDL(DL-0.005) IS 3025 (Part 27): 1986 0.05 BDL(DL-0.005) 14 Cyanide (as CN) mg/l Phenolic compounds BDL(DL-0.001) 0.005 BDL(DL-0.001) IS 3025 (Part 43) :1001 mg/l 15 (as C6H5OH) IS 13428 : 2005 Annex K 1.0 BDL(DL-0.01) BDL(DL-0.01) Anionic Detergent mg/l 16 Chemical Testing 2. Residues In Water 0.5 0.42 0.36 IS 3025 (Part 2): 2019 17 Iron (as Fe) mg/l BDL(DL-0.001) IS 3025 (Part 41) : 1992 0.01 BDL(DL-0.001) mg/l 18 Cadmium (as Cd) BDL(DL-0.001) BDL(DL-0.001) 0.05 IS 3025 (Part 2): 2019 19 Selenium (as Se) mg/l BDL(DL-0.001) BDL(DL-0.001) IS 3025 (Part 37): 1988 0.2 Arsenic (as As) mg/l 20 BDL(DL-0.05) 0.1 BDL(DL-0.05) IS 3025 (Part 47) : 2003 Lead (as Pb) mg/l 21 BDL(DL-0.05) BDL(DL-0.05) IS 3025 (Part 2): 2019 15 Zinc (as Zn) mg/l 22 BDL(DL-0.001) IS 3025 (Part 52) :2003 1.0 BDL(DL-0.001) Hexa Chromium (as Cr*6) 23 mg/l BDL(DL-0.005) BDL(DL-0.005) IS: 3025 (Part 48): 1994 mg/l --24 Mercury (as Hg) BDL(DL-0.05) BDL(DL-0.05) 1S 3025 (Part 2): 2019 Manganese (as Mn) mg/l 25

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

Verified By

Mangesh Fande **Technical Manager**

Snehal Raut Deputy Technical Manager

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

Authorized Signatories

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

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TC 5458

Test Report

1.

ULR No TC545	823000000929	9F	2007 20090					
Test Report No.			dated 29/04/202	23		Pa	ge 1 of 2	
Issued To :			ate 21/04/2023 W.O 4700098928/962		Analys	is Start	21/04/2023	
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Inward Date			Analys	is End	29/04/2023 29/04/2023	
		Reference			Report	t Issue Date		
		Reference Date			Sample	e Category	Water	
Sample Name	Sam	ple Source	Sample Part	Sample Particulars		Condition	Quantity Received	
Sewage Water		Ship STP 50 KLD et & Outlet	Sample Code-WW-11 & 12 S		Sealed & I	ce Preserved	5.0 Ltr & 250 ml	
	mple Collected	and a second	Sampling Date	Sampling T	ſime	Sam	pling Location	
Anacon Re	Anacon Representative Mr.Sovan Giri		14/04/2023	10.30 am to 4	.20 pm		n Ship STP 50 KLD let & Outlet	

TEST RESULTS

S.N.	N. Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
01.11		Unit	rest Method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			.0~			
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.76 at 25°C	6.82 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	87	42	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	16.3	12.8	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	21.9	14.3	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	18	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	78	43	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1	
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

----End of Report----

1.

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Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report TC 5458 ULR No.- TC545823000000929F Test Report No. : ALPL/29042023/3-9A dated 29/04/2023 Page 2 of 2 **Issued To:** Sample Inward No. ALPL/21042023/MON-2/24-11&12 **Analysis Start** 21/04/2023 M/s Noamundi Iron Mine **Inward Date** 21/04/2023 Analysis End 29/04/2023 (M/s TATA Steel Limited) Reference W.O.- 4700098928/962 **Report Issue Date** 29/04/2023 Noamundi, Jharkhand Sample Category Water **Reference** Date 22.03.2022 Postal Code: 833217 Sample Name Sample Source Sample Particulars Sample Condition Quantity Received New Town Ship STP 50 KLD Sewage Water Sample Code-WW-11 & 12 Sealed & Ice Preserved 5.0 Ltr & 250 ml Inlet & Outlet Sample Collected By Sampling Date Sampling Time Sampling Location Anacon Representative Mr.Sovan Giri New Town Ship STP 50 KLD 14/04/2023 10.30 am to 4.20 pm Inlet & Outlet TEST RESULTS Standards **Test Result** Measurement S.N. (In Land **Test Parameter Test Method** Unit Surface Inlet Outlet Water) **Chemical Testing** п 2. Residues In Water 10 Iron (as Fe) IS 3025 (Part 2) : 2019 mg/l 3.0 1.16 0.37 11 Copper (as Cu) mg/l IS 3025 (Part 2) : 2019 3.0 BDL(DL-5) BDL(DL-5) 12 Manganese (as Mn) mg/l IS 3025 (Part 2) : 2019 2.0 BDL(DL-0.1) BDL(DL-0.1) 13 Mercury (as Hg) mg/l IS: 3025 (Part 48): 1994 0.01 BDL(DL-0.01) BDL(DL-0.01) 14 Cadmium (as Cd) mg/l IS: 3025 (Part 41): 1992 2.0 BDL(DL-0.1) BDL(DL-0.1) 15 Selenium (as Se) mg/l IS: 3025 (Part 56): 2003 0.05 BDL(DL-0.1) BDL(DL-0.1) 16 Lead (as Pb) mg/l IS 3025 (Part 47): 2003 0.1 BDL(DL-0.1) BDL(DL-0.1) 17 Arsenic (as As) mg/l IS: 3025 (Part 37): 2022 0.2 BDL(DL-0.05) BDL(DL-0.05) 18 Nickel (as Ni) mg/l IS:13428 : 2005(Annexure L) 3.0 BDL(DL-0.1) BDL(DL-0.1) 19 Zinc (as Zn) mg/l IS 3025 (Part 2): 2019 5.0 BDL(DL-0.1) BDL(DL-0.1) 20 **Total Chromium** mg/l IS 3025 (Part 2): 2019 2.0 BDL(DL-0.1) BDL(DL-0.1) 21 Vanadium (as V) mg/l IS 3025 (Part 2): 2019 0.2 BDL(DL-0.1) BDL(DL-0.1)

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

Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Inlet & Outlet

Test Report No.	: ALPL/2904		dated 29/04/20			Page 1 of 1		
Issued To :		Sample Inward No.	ALPL/21042023	ALPL/21042023/MON-2/24-11&12		21/04/2023		
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Inward Date 21/04/2023		Analysis End	29/04/2023			
		Reference	W.O 4700098928/962		Report Issue Date	29/04/2023		
		Reference Date	22.03.2022		Sample Category	Water		
Sample Name	Sam	ple Source	Sample Particulars		Sample Condition	Quantity Received		
Sewage Water New Town Ship STP 50 KLD Inlet & Outlet Sample Collected By Anacon Representative Mr.Sovan Giri			Sample Code-WW-11 & 12		Sealed & Ice Preserved	5.0 Ltr & 250 ml		
		Sampling Date	Sampling T	'ime San	pling Location			
		14/04/2023 10.30 am to 4.2		20 0m	vn Ship STP 50 KLD			

TEST RESULTS

			1 m	Standards (In	a m	D 11
S.N.	Test Parameter	Measurement Unit	Test Method	Land Surface	Test	Result
_		Oin		Water)	Inlet	Outlet
I	Biological Testing 1.Water			0		
1	Faecal coliform	MPN/100 ml	IS 1622 : 1981		109	26
п	Chemical Testing Pollution & Environment			10		
2	Colour	Hazen units	IS 3025 (Part 4) : 1983	Colourless	2	0 (Colourless)
3	Odour	-	IS 3025 (Part 5) : 2018	Odourless	Disagreeable	Agreeable
4	Temperature	°C	APHA Method	Shall not exceed 5°C above the receiving water temperature	25°C	25°C
5	Free residual chlorine	mg/l	IS 3025 (Part 26) : 1986	1.0	BDL(DL-0.1)	BDL(DL-0,1)
6	Particulate size of SS		Gravimetric Method	Shall pass 850 micron IS Sieve	<850	<850
7	Free Ammonia (as NH ₃)	mg/l	APHA Method	5	BDL(DL-0.1)	BDL(DL-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	2.0	0.16	BDL(DL-0.1)
9	Sulphide (as S)	mg/l	IS 3025 (Part 29) : 1986	2.0	BDL(DL-0.03)	BDL(DL-0.03)
10	Nitrate Nitrogen	mg/l	APHA Method	10	4.8	BDL(DL-2)
11	Bio Assay Test	%	APHA 22nd Edition	90% Survival of fish after 96 hours in 100% effluent	74%	92%
12	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 2): 2019	0.1	BDL(DL-0.01)	BDL(DL-0.01)
13	Dissolved Phosphate (as P)	mg/l	IS 3025 (Part 31): 1988	5.0	BDL(DL-0,1)	BDL(DL-0.1)

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End of Report-

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

ULR No TC545 Test Report No.			dated 29/04/202				Page 1 of 2
Issued To :	ssued To : Sam		ALPL/21042023/	MON-2/24-15&16	Analysi	is Start	21/04/2023
M/s Noamundi Iron Mine (M/s TATA Steel Limited)Inward Date ReferenceNoamundi, Jharkhand Postal Code: 833217Reference Date		Inward Date	21/04/2023		Analys	is End	29/04/2023
		W.O 4700098928/962		Report	Issue Date	29/04/2023	
		Reference Date	22.03.2022 Sample Catego			Category	
Sample Name		ple Source	Sample Particulars		Sample	Condition	Quantity Received
Sewage Water	New Town Ship STP 50 KLD		Sample Code-WW-15 & 16		Sealed & I	ce Preserved	5.0 Ltr & 250 ml
Sample Collected By			Sampling Date				pling Location
Anacon Representative Mr.Sovan Giri		14/04/2023 10.30 am to 4.2				Camp STP 50 KLD	

TEST RESULTS

	-	Measurement		Standards (In	Test Result	
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet
I	Chemical Testing Pollution & Environment		~**	08		
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.46 at 25°C	6.97 at 25°C
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17) : 1984	100	76	32
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	13.6	9.1
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	18.4	13.9
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	14
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	72	38
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)
9	Phenolic Compounds (as C6H3OH)	-	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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and the subscription of the local division o	No TC545	82300 <mark>0</mark> 000929	F			Test Repo	ort				TC 5458
		: ALPL/2904		11A		dated 29/04/20)23		0		Page 2 of 2
M/s I (M/s Noan	TATA Stee nundi, Jhark	ATA Steel Limited) ndi, Jharkhand Code: 833217 Reference		eference Date 22.03.2022 Source Sample Particulars		5&16	Analy Repor	sis Start sis End t Issue Date le Category	21/04/2023 29/04/2023 29/04/2023 Water Quantity Received 5.0 Ltr & 250 ml		
	ample Name Sample So ewage Water New Town Ship S Inlet & Ou		Ship STI					1000			Sample Condition Sealed & Ice Preserved
		nple Collected		Giri	S	ampling Date 14/04/2023		ling Time n to 4.20 p		Central C	ling Location amp STP 50 KLD et & Outlet
						TEST RESU	JLTS			-	
S.N.	Te	st Parameter		Measurem	ent	Test Me	thod	Standa (In La		Te	st Result
				Unit				Surface Water)		Inlet	Outlet
П	Chemical 7 2. Residue	Festing s In Water						a			
10	Iron (as Fe			mg/l		IS 3025 (Part	2):2019	3.0		1.67	0.53
11	Copper (as			mg/l		IS 3025 (Part		3.0		BDL(DL-5)	BDL(DL-5)
12	Manganese			mg/l		IS 3025 (Part	2):2019	2.0		BDL(DL-0.1)	BDL(DL-0.1)
13	Mercury (a			mg/l		IS: 3025 (Part	48): 1994	0.01		BDL(DL-0.01)	
14	Cadmium (mg/l		IS : 3025 (Part	41): 1992	2.0		BDL(DL-0.1)	BDL(DL-0.1)
15	Selenium (a			mg/l		IS : 3025 (Part		0.05		BDL(DL-0.1)	BDL(DL-0.1)
16	Lead (as Pb	/		mg/l		IS 3025 (Part -		0.1	_	BDL(DL-0.1)	BDL(DL-0.1)
17 18	Arsenic (as			mg/l		IS : 3025 (Part		0.2		BDL(DL-0.05)	BDL(DL-0.05)
18	Nickel (as 1			mg/l		IS:13428 : 2005(3.0		BDL(DL-0.1)	BDL(DL-0.1)
20	Zinc (as Zn Total Chron		_	mg/l		IS 3025 (Part		5.0		BDL(DL-0.1)	BDL(DL-0.1)
20	Vanadium (mg/l		IS 3025 (Part		2.0		BDL(DL-0.1)	BDL(DL-0.1)
21	vanaurum (as v)		mg/l		IS 3025,(Part	2):2019	0.2		BDL(DL-0.1)	BDL(DL-0.1)

1.

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Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab 9 FP-34, 35, Food Park, Five Star Industral Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 4 91 8045685558 🕿 Email : info@anacon.in 9 https: // www.anaconlaboratories.com

Test Report No.	: ALPL/2904	2023/3-11 <u>B</u>	dated 29 R4/202	<u>137</u>			Page 1 of 1	
Issued To : M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand Partel Carler 822217		Sample Inward No. Inward Date Reference	 ALPL/21042023/MON-2/24-15&16 21/04/2023 W.O 4700098928/962 22.03.2038¹ 		Analys Report	is Start is End Issue Date Category	21/04/2023 29/04/2023 29/04/2023 Water	
Postal Code: 833 Sample Name Sewage Water	Sam New Town	Reference Date ple Source Ship STP 50 KLD t & Outlet	Sample Part		Sample	Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date Sampling Till 14/04/2023 10.30 am to 4.2			Central C	pling Location Camp STP 50 KLD alet & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In	Test	Result
5.14.	Test I al ameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet
I	Biological Testing 1.Water					
1	Faecal coliform	MPN/100 ml	IS 1622 : 1981	-	84	21
п	Chemical Testing Pollution & Environment			80		1
2	Colour	Hazen units	IS 3025 (Part 4) : 1983	Colourless	2	0 (Colourless)
3	Odour	-	IS 3025 (Part 5): 2018	Odourless	Disagreeable	Agreeable
4	Temperature	°C	APHA Method	Shall not exceed 5°C above the receiving water temperature	25°C	25°C
5	Free residual chlorine	mg/l	IS 3025 (Part 26) : 1986	1.0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate size of SS		Gravimetric Method	Shall pass 850 micron IS Sieve	<850	<850
7	Free Ammonia (as NH ₃)	mg/l	APHA Method	5	BDL(DL-0.1)	BDL(DL-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	2.0	BDL(DL-0.1)	BDL(DL-0.1)
9	Sulphide (as S)	mg/l	IS 3025 (Part 29) : 1986	2.0	BDL(DL-0.03)	BDL(DL-0.03)
10	Nitrate Nitrogen	mg/l	APHA Method	10	2.94	BDL(DL-2)
11	Bio Assay Test	%	APHA 22nd Edition	90% Survival of fish after 96 hours in 100% effluent	84%	96%
12	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 2) : 2019	0.1	BDL(DL-0.01)	BDL(DL-0.01)
13	Dissolved Phosphate (as P)	mg/l	IS 3025 (Part 31): 1988	5.0	BDL(DL-0.1)	BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

-End of Report----



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Test Report

ULR No.- TC545823000000929F

Test Report No.	: ALPL/2904:	2023/3-10A	dated 29/04/202	23			Page 1 of 2
Issued To :		Sample Inward No.	ALPL/21042023/	MON-2/24-13&14	Analys	is Start	21/04/2023
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand		21/04/2023	21/04/2023		is End	29/04/2023	
		Reference	W.O 4700098928/962			Issue Date	29/04/2023
Postal Code: 833		Reference Date	22.03.2022		Sample	e Category	Water
Sample Name		ple Source	Sample Particulars Sample Code-WW-13 & 14 S		Sample	Condition	Quantity Received
Sewage Water		Ship STP 50 KLD t & Outlet			Sealed & I	ce Preserved	5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling DateSampling Tim14/04/202310.30 am to 4.20				Ding Location ETP 10 KLD Inlet & Outlet

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In	Test Result		
5.IN.	i est rarameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			N.	517		
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.51 at 25°C	6.86 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	92	38	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	14.93	11.76	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	26.43	13.82	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	12	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	74	34	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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	TOPIE				Test Rep	ort				TC 545
		823000000929 : ALPL/2904			dated 29/04/20	23				Page 2 of 2
	d To :		Sample Inward	No.	ALPL/21042023	MON-2/24-13	3&14 A	nalysis St	art	21/04/2023
M/s M/s Moarr	and the second sec	chand	Inward Date Reference Reference Date		21/04/2023 W.O 47000989 22.03.2022	28/962	A	nalysis E eport Issu umple Ca	nd ue Date	29/04/2023 29/04/2023 Water
	ple Name ige Water	New Town	ple Source Ship STP 50 KLD at & Outlet		Sample Par Sample Code-W			n ple Con d & Ice P		Quantity Received 5.0 Ltr & 250 ml
		nple Collected presentative M		5	Sampling Date 14/04/2023		ing Time n to 4.20 pm	В	ottom Bin E	<mark>ng Location</mark> TP 10 KLD Inlet & Outlet
					TEST RESU	LTS				
			Measur	ement			Standard (In Land	2	Test	Result
S.N.	Te	st Parameter	Un	000000000	Test Me	Test Method			Inlet	Outlet
п	Chemical 2. Residue	Testing es In Water					-			
10	Iron (as Fe	:)	mg	/1	IS 3025 (Part	2):2019	3.0		1.11	0.16
11	Copper (as	s Cu)	mg	/1	IS 3025 (Par	t 2): 2019	3.0	B	DL(DL-5)	BDL(DL-5)
12	Manganes		mg	/1	IS 3025 (Par	t 2): 2019	2.0	BE	DL(DL-0.1)	BDL(DL-0.1)
13	Mercury (a	as Hg)	mg	/1	IS : 3025 (Part	48):1994	0.01	BD	L(DL-0.01)	BDL(DL-0.01
14	Cadmium	(as Cd)	mg	/1	IS : 3025 (Part	41):1992	2.0	BD	DL(DL-0.1)	BDL(DL-0.1)
15	Selenium (mg	/1	IS : 3025 (Par	t 56): 2003	0.05	BD	DL(DL-0.1)	BDL(DL-0.1)
16	Lead (as P	b)	mg	/1	IS 3025 (Part		0.1	BD	DL(DL-0.1)	BDL(DL-0.1)
17	Arsenic (a	s As)	mg	/1	IS : 3025 (Part	37):2022	0.2		L(DL-0.05)	BDL(DL-0.05
18	Nickel (as	Ni)	mg	/1	IS:13428 : 2005	Annexure L)	3.0	BD	DL(DL-0.1)	BDL(DL-0.1)
19	Zinc (as Z		mg	/1	IS 3025 (Par		5.0		DL(DL-0.1)	BDL(DL-0.1)
20	Total Chro	omium	mg	/1	IS 3025 (Part	2):2019	2.0		DL(DL-0.1)	BDL(DL-0.1)
21	Vanadium	(as V)	mg	/1	IS 3025 (Part	2):2019	0.2	BD	DL(DL-0.1)	BDL(DL-0.1)

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

Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

Gan

Dr. (Mrs.) S.D. Garway Quality Manager

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Outlet

Test Report No.	: ALPL/2904	2023/3-10B	dated 29 Repo	<u>25t</u>			Page 1 of 1
Issued To : M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Sample Inward No. Inward Date Reference Reference Date	 ALPL/21042023/MON-2/24-13&14 21/04/2023 W.O 4700098928/962 22.03.2022 		Analys Report	is Start is End Issue Date Category	21/04/2023 29/04/2023 29/04/2023 Water
Sewage Water New Town		ple Source Ship STP 50 KLD t & Outlet	Sample Part Sample Code-W		100-180-50 * 4 46-535	Condition ce Preserved	Quantity Received
	mple Collected presentative M		Sampling Date	Sampling T 10.30 am to 4.			Ding Location ETP 10 KLD Inlet &

TEST RESULTS

		1	TEST RESULTS		1	
S.N.	Test Parameter	Measurement Unit	Test Method	Standards (In Land Surface	Test Result	
		Ont		Water)	Inlet	Outlet
I	Biological Testing 1.Water			0	0	
1	Faecal coliform	MPN/100 ml	IS 1622 : 1981	100 C	120	34
п	Chemical Testing Pollution & Environment		5e	6		
2	Colour	Hazen units	IS 3025 (Part 4) : 1983	Colourless	2	0 (Colourless
3	Odour	-	IS 3025 (Part 5) : 2018	Odourless	Disagreeable	Agreeable
4	Temperature	°C	APHA Method	Shall not exceed 5°C above the receiving water temperature	25°C	25°C
5	Free residual chlorine	mg/l	IS 3025 (Part 26) : 1986	1.0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate size of SS		Gravimetric Method	Shall pass 850 micron IS Sieve	<850	<850
7	Free Ammonia (as NH ₃)	mg/l	APHA Method	5	BDL(DL-0.1)	BDL(DL-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	2.0	0.27	BDL(DL-0.1) BDL(DL-0.1)
9	Sulphide (as S)	mg/l	IS 3025 (Part 29): 1986	2.0	BDL(DL-0.03)	BDL(DL-0.03)
10	Nitrate Nitrogen	mg/l	APHA Method	10	6.52	
11			APHA 22nd Edition	90% Survival of fish after 96 hours in 100% effluent	64%	BDL(DL-2) 92%
12	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 2): 2019	0.1	BDL(DL-0.01)	BDL(DL-0.01)
13	Dissolved Phosphate (as P)	mg/l	IS 3025 (Part 31) : 1988	5.0	BDL(DL-0.01)	BDL(DL-0.01) BDL(DL-0.1)

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End of Report----

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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TC 5458

Test Report

ULR No TC5458 Test Report No.			dated 29/04/202		_		Page 1 of 2
Issued To :		Sample Inward No.	ALPL/21042023/	MON-2/24-17&18	Analys	is Start	21/04/2023
M/s Noamundi	Iron Mine	Inward Date	21/04/2023		Analys	is End	29/04/2023
M/s TATA Steel Limited)		Reference	e W.O 4700098928/962		Report	Issue Date	29/04/2023
Noamundi, Jhark Postal Code: 833		Reference Date	22.03.2022		Sample	e Category	Water
Sample Name		ple Source	Sample Particulars		Sample	Condition	Quantity Received
Sewage Water		Ship STP 50 KLD et & Outlet	Sample Code-W	W-17 & 18	Sealed & I	ce Preserved	5.0 Ltr & 250 ml
	nple Collecte presentative N		Sampling Date	Sampling T 10.30 am to 4		Hospi	pling Location tal ETP 10 KLD let & Outlet

TEST RESULTS

		Measurement		Standards (In	Test Result		
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			11 - C			
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.87 at 25°C	7.31 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	87	26	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	24	18	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	32	16	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	28	14	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	74	42	
8	Cvanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1	
9	Phenolic Compounds (as C ₆ H ₃ OH)		IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1	

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Jan

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report ULR No.- TC545823000000929F Page 2 of 2 dated 29/04/2023 Test Report No. : ALPL/29042023/3-12A 21/04/2023 ALPL/21042023/MON-2/24-17&18 Analysis Start Sample Inward No. Issued To : M/s Noamundi Iron Mine 29/04/2023 Analysis End **Inward Date** 21/04/2023 (M/s TATA Steel Limited) 29/04/2023 W.O.- 4700098928/962 **Report Issue Date** Reference Noamundi, Jharkhand Water Sample Category 22.03.2022 **Reference** Date Postal Code: 833217 Sample Particulars Sample Condition **Quantity Received** Sample Name Sample Source New Town Ship STP 50 KLD Sealed & Ice Preserved 5.0 Ltr & 250 ml Sample Code-WW-17 & 18 Sewage Water Inlet & Outlet Sampling Date Sampling Time Sampling Location Sample Collected By Hospital ETP 10 KLD Anacon Representative Mr.Sovan Giri 14/04/2023 10.30 am to 4.20 pm Inlet & Outlet TEST RESULTS Standards **Test Result** Measurement **Test Method** (In Land S.N. **Test Parameter** Unit Outlet Inlet Surface Water) **Chemical Testing** п 2. Residues In Water IS 3025 (Part 2) : 2019 3.0 0.52 0.12 10 Iron (as Fe) mg/l BDL(DL-5) BDL(DL-5) IS 3025 (Part 2): 2019 3.0 Copper (as Cu) mg/l 11 BDL(DL-0.1) BDL(DL-0.1) IS 3025 (Part 2): 2019 2.0 Manganese (as Mn) mg/l 12 0.01 BDL(DL-0.01) BDL(DL-0.01) IS: 3025 (Part 48): 1994 13 Mercury (as Hg) mg/l 2.0 BDL(DL-0.1) BDL(DL-0.1) IS: 3025 (Part 41): 1992 mg/l 14 Cadmium (as Cd) IS: 3025 (Part 56): 2003 0.05 BDL(DL-0.1) BDL(DL-0.1) 15 Selenium (as Se) mg/l IS 3025 (Part 47): 2003 BDL(DL-0.1) 0.1 BDL(DL-0.1) mg/l 16 Lead (as Pb) BDL(DL-0.05) IS: 3025 (Part 37): 2022 0.2 BDL(DL-0.05) mg/l 17 Arsenic (as As) IS:13428 : 2005(Annexure L) BDL(DL-0.1) 3.0 BDL(DL-0.1) 18 Nickel (as Ni) mg/l BDL(DL-0.1) BDL(DL-0.1) IS 3025 (Part 2): 2019 5.0 19 Zinc (as Zn) mg/l IS 3025 (Part 2): 2019 2.0 BDL(DL-0.1) BDL(DL-0.1) **Total Chromium** mg/l 20 BDL(DL-0.1) BDL(DL-0.1) mg/l IS 3025 (Part 2): 2019 0.2 21 Vanadium (as V)

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'. • BDL-Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent'. **REMARKS :** As requested by the client, sample was tested for above parameters only.

Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab



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Test Report No. Issued To :	. ALFL/2904		dated 2904,802				Page 1 of 1
		Sample Inward No.	ALPL/21042023/	MON-2/24-17&18	Analys	is Start	21/04/2023
	M/s Noamundi Iron Mine M/s TATA Steel Limited) Ioamundi, Jharkhand		21/04/2023		Analys	is End	29/04/2023
			W.O 4700098928/962			Issue Date	29/04/2023
Postal Code: 833		Reference Date	22.03.2022		Sample	e Category	Water
Sample Name	Second Parts	ple Source	Sample Part	iculars	Sample	Condition	Quantity Received
Sewage Water		Ship STP 50 KLD t & Outlet	Sample Code-W	W-17 & 18	Sealed & I	ce Preserved	5.0 Ltr & 250 ml
	nple Collected	•	Sampling Date	Sampling 7	ſime		pling Location
Anacon Re	presentative M	r.Sovan Giri	14/04/2023	10.30 am to 4	.20 pm	120-2002	tal ETP 10 KLD let & Outlet

TEST RESULTS

S.N.	, Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test	Result
54503	,	Unit	rest method	Water)	Inlet	Outlet
I	Biological Testing 1.Water		_	0		
1	Faecal coliform	MPN/100 ml	IS 1622 : 1981	-	94	33
п	Chemical Testing Pollution & Environment			Se -		
2	Colour	Hazen units	IS 3025 (Part 4) : 1983	Colourless	2	0 (Colourless)
3	Odour	-	IS 3025 (Part 5) : 2018	Odourless	Disagreeable	Agreeable
4	Temperature	°emperature °C		Shall not exceed 5°C above the receiving water temperature	25ºC	25ºC
5	Free residual chlorine	mg/l	IS 3025 (Part 26) : 1986	1.0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate size of SS		Gravimetric Method	Shall pass 850 micron IS Sieve	<850	<850
7	Free Ammonia (as NH ₃)	mg/l	APHA Method	5	BDL(DL-0.1)	BDL(DL-0.1)
8	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	2.0	0.21	BDL(DL-0.1)
9	Sulphide (as S)	mg/l	IS 3025 (Part 29): 1986	2.0	BDL(DL-0.03)	BDL(DL-0.03)
10	Nitrate Nitrogen	. mg/l	APHA Method	10	6.82	BDL(DL-2)
11	Bio Assay Test % APHA 22nd Edition 90% Survival of fish after 96 hours in 100% effluent		84%	94%		
12	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 2) : 2019	0.1	BDL(DL-0.01)	BDL(DL-0.01)
13	Dissolved Phosphate (as P)	mg/l	IS 3025 (Part 31) : 1988	5.0	BDL(DL-0.1)	BDL(DL-0,1)

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Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

CHARGE ALLONG

End of Report-

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Test Report

Test Report No.	: ALPL/3105	2023/3-9A	dated 31/05/20)23		Pag	ge 1 of 2	
Issued To :	/ Nerman d' Les MC		. ALPL/23052023/MON-3/60-11&12		Analys	is Start	24/05/2023	
	M/s Noamundi Iron Mine M/s TATA Steel Limited) Noamundi, Jharkhand		23/05/2023		Analys	is End	30/05/2023	
and the second			W.O 4700098	928/962	Report	Issue Date	31/05/2023	
Postal Code: 833		Reference Date	22.03.2022		Sample	Category	Water	
Sample Name	and the start	ple Source	Sample Particulars		Sample (Condition	Quantity Received	
Sewage Water	Sewage Water New Town Ship STP 50 KLD Inlet & Outlet		Sample Code-WW-11 & 12		Sealed & Ice Preserved		5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date				pling Location n Ship STP 50 KLD	
			18/05/2023	10.40 am to 4	.50 pm		let & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In	Test Result		
0	rest i arameter	Unit		Land Surface Water)	Inlet	Outlet	
I.	Chemical Testing Pollution & Environment			63	-1	1	
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.81 at 25°C	6.93 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	82	24	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	17.6	13.9	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	23.8	16.4	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	28	16	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	84	46	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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----End of Report----

Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

Gant

Dr. (Mrs.) S. D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

1







Test Report

1

ULR No.- TC545823000001289F

Test Report No. : ALPL/3105	2023/3-9A	dated 31/05/202	23		Pag	ge 2 of 2
Issued To :	Sample Inward No.	ALPL/23052023/	Analysis	Start	24/05/2023	
M/s Noamundi Iron Mine	Inward Date	23/05/2023		Analysis End		30/05/2023
M/s TATA Steel Limited) Ioamundi, Jharkhand ostal Code: 833217 Reference Date		W.O 4700098928/962 22.03.2022		Report Issue Date Sample Category		31/05/2023 Water
	ple Source	Sample Particulars Sample Code-WW-11 & 12		Sample C	ondition	Quantity Received
	Ship STP 50 KLD et & Outlet			Sealed & Ice Preserved		5.0 Ltr & 250 ml
' Sample Collecter Anacon Representative M		Sampling Date	Sampling T		and a second sec	pling Location n Ship STP 50 KLD
		18/05/2023 10.40 am to 4.50				let & Outlet

TEST RESULTS

S.N.	Test Bauswater	Measurement	-	Standards (In Land	Test	Result
5.IN.	Test Parameter	Unit	Test Method	Surface Water)	Inlet	Outlet
П	Chemical Testing 2. Residues In Water			N'		
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	1.41	0.11
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)
15	Selenium (as Se)	mg/l	IS : 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
18	Nickel (as Ni)	mg/l	IS:13428 : 2005(Annexure L)	3.0	BDL(DL-0.1)	BDL(DL-0.1)
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)

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

Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test	Report No.	: ALPL/3105:	2023/3-9B		dated 31/05/20	23			Pao	elof1
Issue M/s l (M/s	d To : Noamu'ndi TATA Stee nundi, Jhark	Iron Mine I Limited)	Sample Inwar Inward Date Reference	d No.	ALPL/23052023 23/05/2023 W.O 47000989	3/MON-3/	60-11&12	Analy: Repor	sis Start sis End t Issue Date	24/05/2023 30/05/2023 31/05/2023
	l Code: 833		Reference Dat	e	22.03.2022			Sampl	e Category	Water
	Sample Name Sample Source ewage Water New Town Ship STP 50 KLD Inlet & Outlet				Sample Par Sample Code-W		12	100 (201 10.000)	Condition ce Preserved	Quantity Received
		nple Collected presentative Mr		5	Sampling Date 18/05/2023		ampling Ti 40 am to 4.5		New Town	ling Location Ship STP 50 KLD et & Outlet
					TEST RESU	LTS			R	
S.N.	Te	st Parameter	a server control of the server	rement	Test Meth	od		ards (In Surface	Т	est Result
	Unit			nt	Water)			TRANSFORMER PROPERTY.	Inlet	Outlet
I	Biological	Testing 1.Wa	iter				10	Ser.		
1	Faecal colif	form	MPN/	100 ml	IS 1622 : 19	081	25	-	48	26
II.	Chemical Pollution	Testing & Environmo	ent				A.V			20
2	Colour		Hazen	units	IS 3025 (Part 4)	: 1983	Colo	urless	2	0 (Colourless
3	Odour				IS 3025 (Part 5)			urless	Disagreeabl	e Agreeable
4	Temperatur	e	°(3	APHA Method		Shall not exceed 5°C above the receiving water temperature		25ºC	25°C
5	Free residua	al chlorine	mg	y/l	IS 3025 (Part 26)	: 1986	1.		BDL(DL-0.1) BDL(DL-0.1)
6	Particulate s	NAME OF COMMENT			Gravimetric M	ethod	Shall p micron	ass 850 IS Sieve	<850	<850
7	Free Ammo	nia (as NH ₃)	mg		APHA Meth			5	BDL(DL-0.1) BDL(DL-0.1)
8	Fluoride (as		mg	/1	IS 3025 (Part 60		2	.0	0.17	BDL(DL-0.1)
9	Sulphide (as		mg	/1	IS 3025 (Part 29)	: 1986	2.		BDL(DL-0.0	
10	Nitrate Nitro	ogen	mg	/1	APHA Meth	od	1	0	4.2	BDL(DL-2)
11	Bio Assay T		%		APHA 22nd E		90% Survival of fish after 96 hours in 100% effluent		76%	92%
12		Chromium (as		/1	IS 3025 (Part 52):2003	0.		BDL(DL-0.0) BDL(DL-0.01)
13	Dissolved P	hosphate (as P) mg	/1	IS 3025 (Part 31)		5.		BDL(DL-0.1	

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1.

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

Verified By

Mangesh Fande

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager Authorized Signatories

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager



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Test Report

1.

ULR No.- TC545823000001289F

Test Report No.	: ALPL/3105	2023/3-11A	dated 31/05/202	23		Pag	ge 1 of 2	
Issued To :		Sample Inward No.	ALPL/23052023/	MON-3/60-15&16	Analysi	is Start	24/05/2023	
	Cantrol Comp STD 50 KLD		e 23/05/2023 W.O 4700098928/962		Analysi		30/05/2023	
					Report Issue Date		31/05/2023	
			22.03.2022		Sample Cate		Water	
Sample Name			Sample Particulars Sample Code-WW-15 & 16		Sample Condition Sealed & Ice Preserved		Quantity Received	
Sewage Water							5.0 Ltr & 250 ml	
			Sampling Date	Sampling T		the second se	pling Location Camp STP 50 KLD	
			18/05/2023	10.40 am to 4.	50 pm		let & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
0	rest i al'ameter	Unit	Test Method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			10		1	
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.53 at 25°C	6.82 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17) : 1984	100	84	36	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	14.7	9.8	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	16.3	12.4	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	24	12	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	76	38	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

1

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Test Report

ALPL/3105	2023/3-11A	dated 31/05/202	23		Pag	ge 2 of 2
	Sample Inward No.	ALPL/23052023	/MON-3/60-15&16	Analysis	s Start	24/05/2023
M/s TATA Steel Limited) Reference		23/05/2023 W.O 4700098928/962 22.03.2022		Analysis End		30/05/2023
						31/05/2023 Water
Sam	ple Source	Sample Part	iculars	Sample C	Condition	Quantity Received
		Sample Code-W	W-15 & 16	Sealed & Ic	e Preserved	5.0 Ltr & 250 ml
		Sampling Date 18/05/2023			Central C	pling Location Camp STP 50 KLD let & Outlet
	on Mine Limited) and 17 Sam Central Ca Inle	on Mine Inward Date Limited) Reference and D.c.	Sample Inward No.ALPL/23052023.Inward Date23/05/2023Limited) and 17ReferenceW.O 47000989.Reference Date22.03.2022.Sample SourceSample PartCentral Camp STP 50 KLD Inlet & OutletSample Code-WSector Collected BySampling Date	Sample Inward No. ALPL/23052023/MON-3/60-15&16 Inward Date 23/05/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 Sample Source Sample Particulars Central Camp STP 50 KLD Sample Code-WW-15 & 16 Inlet & Outlet Sampling Date Sampling Ti	Sample Inward No.ALPL/23052023/MON-3/60-15&16AnalysiInward Date23/05/2023AnalysiInward Date23/05/2023AnalysiReferenceW.O 4700098928/962ReportReference Date22.03.2022SampleSample SourceSample ParticularsSample Code-WW-15 & 16Central Camp STP 50 KLDSample Code-WW-15 & 16Sealed & IcInlet & OutletSampling DateSampling Time	Sample Inward No.ALPL/23052023/MON-3/60-15&16Analysis StartInward Date Limited) and 1723/05/2023 Reference Reference Date23/05/2023 22.03.2022,Analysis Start Analysis End Report Issue Date Sample CategorySample Source Central Camp STP 50 KLD Inlet & OutletSample Code-WW-15 & 16Sample Condition Sealed & Ice PreservedSender Collected By esentative Mr.Sovan GiriSampling Date 18/05/2023Sampling Time 10.40 am to 4.50 nmSample

Standards **Test Result** Measurement (In Land S.N. **Test Parameter** Test Method Unit Surface Inlet Outlet Water) **Chemical Testing** п 2. Residues In Water 10 Iron (as Fe) mg/l IS 3025 (Part 2): 2019 3.0 0.57 0.24 11 Copper (as Cu) IS 3025 (Part 2) : 2019 mg/l 3.0 BDL(DL-5) BDL(DL-5) 12 Manganese (as Mn) IS 3025 (Part 2): 2019 2.0 BDL(DL-0.1) mg/l BDL(DL-0.1) 13 Mercury (as Hg) IS: 3025 (Part 48): 1994 0.01 BDL(DL-0.01) mg/l BDL(DL-0.01) Cadmium (as Cd) 14 IS: 3025 (Part 41): 1992 mg/l 2.0 BDL(DL-0.1) BDL(DL-0.1) 15 Selenium (as Se) IS: 3025, (Part 56): 2003 0.05 mg/l BDL(DL-0.1) BDL(DL-0.1) 16 Lead (as Pb) mg/l IS 3025 (Part 47): 2003 0.1 BDL(DL-0.1) BDL(DL-0.1) 17 Arsenic (as As) mg/l IS: 3025 (Part 37): 2022 0.2 BDL(DL-0.05) BDL(DL-0.05) 18 Nickel (as Ni) mg/l IS:13428 : 2005(Annexure L) 3.0 BDL(DL-0.1) BDL(DL-0.1) 19 Zinc (as Zn) IS 3025 (Part 2): 2019 mg/l 5.0 BDL(DL-0.1) BDL(DL-0.1) 20 **Total Chromium** mg/l IS 3025 (Part 2): 2019 2.0 BDL(DL-0.1) BDL(DL-0.1) 21 Vanadium (as V) mg/l IS 3025 (Part 2): 2019 0.2 BDL(DL-0.1) BDL(DL-0.1)

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'. • BDL-Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent' REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By

Mangesh Fande **Technical Manager**

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

			10.		[
eport No. :	ALPL/3105	2023/3-1	1B					Page	1 of 1
To:				ALPL/23052	2023/MON-3/6	60-15&16	Analysi	s Start	24/05/2023
oamundi I	ron Mine	Inward	1 Date	23/05/2023			Analysi	s End	30/05/2023
ATA Steel	Limited)				08028/062				31/05/2023
undi, Jharkl	hand				//0/20//02				Water
Code: 8332	217	Refere	nce Date 22.03.2022			Sample	Sample Category water		
le Name	Sam	ple Sour	ce	Sample	Particulars		Sample (Condition	Quantity Received
ge Water				Sample Cod	e-WW-15 & 1	6	Sealed & Ic	e Preserved	5.0 Ltr & 250 ml
Sam	ple Collecte	By		Sampling Date	Sa	mpling T	ime	Sampli	ing Location
			Giri	18/05/2023	10.4	0 am to 4.:	50 pm		mp STP 50 KLD t & Outlet
,				TEST RI	ESULTS			l	i a Outlet
9 T 3	V9422 55		Measureme	nt m.s		LN 529920-11/2010	the second s	Te	st Result
.N. Test Parameter		Unit	Test Method Land S			Inlet	Outlet		
Biological	Testing 1.W	ater				2			
Faecal colif	orm		MPN/100 n	nl IS 1622	2:1981	1		39	26
		nent							
Colour			Hazen unit	s IS 3025 (P	art 4): 1983	Colo	ourless	2	0 (Colourless
Odour			-			Odo	urless	Disagreeable	e Agreeable
Temperatur	e		°C		1	5°C al receivi	oove the ng water	25°C	25°C
Free residua	al chlorine		mg/l	IS 3025 (Par	t 26) : 1986	1	.0	BDL(DL-0.1)	BDL(DL-0.1)
Particulate :	size of SS			Gravimet	ric Method			<850	<850
Free Ammo	nia (as NH ₃)		mg/l	APHA	Method		and the second se	BDL(DL-0.1) BDL(DL-0.1
			mg/l				2.0		
Sulphide (a	s S)		mg/l	IS 3025 (Pa	rt 29) : 1986		2.0	BDL(DL-0.0.	3) BDL(DL-0.03
Nitrate Nitr	ogen		mg/l	APHA	Method	12		3.17	BDL(DL-2)
States and a state of the		a	%		14 14	fish afte	r 96 hours	86%	94%
Hexavalent	Chromium (a	as Cr ⁺⁶)	mg/l	IS 3025 (Pa	art 52) : 2003			BDL(DL-0.01	
	hosphate (as		mg/l	IS 2025 (Da	rt 31): 1988		5.0	BDL(DL-0.1) BDL(DL-0.1
	To: oamundi I ATA Steel undi, Jharkl Code: 8332 le Name ge Water Sam Anacon Rep George Construction Faecal colific Chemical Pollution Colour Odour Temperatur Free residur Particulate Free Ammo Fluoride (as Sulphide (a Nitrate Nitr Bio Assay Hexavalent	To: oamundi Iron Mine ATA Steel Limited) undi, Jharkhand Code: 833217 le Name Sam ce Water Central Ca Inle Sample Collected Anacon Representative M Faecal coliform Chemical Testing 1.W Faecal coliform Chemical Testing Pollution & Environm Colour Odour Temperature Free residual chlorine Particulate size of SS Free Ammonia (as NH ₃) Fluoride (as F) Sulphide (as S) Nitrate Nitrogen Bio Assay Test Hexavalent Chromium (a	To:Sampleoamundi Iron MineInward $ATA Steel Limited)Inwardundi, JharkhandRefereCode: 833217Referele NameSample Sourge WaterCentral Camp STPnlet & OutloSample Collected ByAnacon Representative Mr. Sovan O''Test ParameterBiological Testing1.WaterFaecal coliformChemical TestingPollution & EnvironmentColourOdourTemperatureFree residual chlorineParticulate size of SSFree Ammonia (as NH3)Fluoride (as F)Sulphide (as S)Nitrate NitrogenBio Assay TestHexavalent Chromium (as Cr46)$	oamundi Iron Mine ATA Steel Limited) andi, Jharkhand Code: 833217 Inward Date Reference Reference DateIe Name code: 833217 Sample Source Central Camp STP 50 KLD Inlet & OutletSample Collected By Anacon Representative Mr.Sovan GiriMeasureme UnitBiological Testing 1.WaterFaecal coliformMPN/100 nChemical Testing Pollution & EnvironmentColourHazen unitOdour°CFree residual chlorinemg/lParticulate size of SSFree Ammonia (as NH3)mg/lFluoride (as S)mg/lSulphide (as S)mg/lBio Assay Test%	eport No. : $ALPL/31052023/3-11B$ dated $31/05$ To :Sample Inward No. $ALPL/23052$ oamundi Iron Mine ATA Steel Limited) undi, Jharkhand Code: 833217 Inward Date Reference Date $23/05/2023$ ReferenceW.O 47000 Reference DateSample22.03.2022Reference Date $22.03.2022$ le Name ge WaterSample Source Central Camp STP 50 KLD Inlet & OutletSample CodeSample Collected By Anacon Representative Mr.Sovan GiriSampling Date 18/05/2023Test ParameterMeasurement UnitTest NBiological Testing OdourI.Water1Faecal coliformMPN/100 mlIS 1622Chemical Testing OdourI.Sa025 (Par GravimetiTemperature°CAPHAFree residual chlorinemg/lIS 3025 (Par GravimetiFree Ammonia (as NH3)mg/lAPHAFluoride (as F)mg/lIS 3025 (Par Mg/lSulphide (as S)mg/lAPHABio Assay Test%APHA 22 MHexavalent Chromium (as Cr**)mg/lIS 3025 (Par Mg/l	To :Sample Inward No.ALPL/23052023/MON-3/0Inward Date23/05/2023ATA Steel Limited) andi, Jharkhand Code: 833217ReferenceW.O 4700098928/962Reference Date22.03.2022Reference DateSample Particulars Sample Collected BySample Collected BySample Code-WW-15 & 1Test ParameterMeasurement UnitTest MethodIbiological Testing 1.Water/Faceal coliformMPN/100 mlIS 3025 (Part 4) : 1983Odour-°CAPHA MethodFree residual chlorinemg/1IS 3025 (Part 4) : 1986Particulate size of SSmg/1IS 3025 (Part 26) : 1986Sauplid (as S)mg/1IS 3025 (Part 26) : 1986Noticulate Nitrogenmg/1IS 3025 (Part 26) : 1986Sauplid (as S)mg/1IS 3025 (Part 26) : 1986Sauplid (as S)mg/1IS 3025 (Part 26) : 1986Particulate size of SSGen and colspan="2">Gen and colspan="2">Sauplid (as S)mg/1IS 3025 (Part 26) : 1986Sauplid (as S)mg/1IS	eport No.: ALPL/31052023/3-11Bdated $31/05/2023$ To:Sample Inward No.ALPL/23052023/MON-3/60-15&16oamundi Iron Mine ATA Steel Limited) andi, Jharkhand Code: 833217Sample Source Reference DateSample Particulars Sample Collected By Sample Collected By Anacon Representative Mr.Sovan GiriSample Date 18/05/2023Sampling Ti 18/05/2023Sample Collected By Anacon Representative Mr.Sovan GiriMeasurement UnitSampling Date 18/05/2023Sampling Ti 10.40 am to 4.3Fee ParameterMeasurement UnitTEST RESULTSStand UnitFaceal coliformMPN/100 mlIS 1622 : 1981Stand Shall nChemical Testing Pollution & EnvironmentMazen unitsIS 3025 (Part 4) : 1983ColcColourHazen unitsIS 3025 (Part 4) : 1983ColcGodur-IS 3025 (Part 26) : 1986Shall nTere residual chlorinemg/lIS 3025 (Part 26) : 1986Shall nParticulate size of SSGravimetric MethodShall nFree residual chlorinemg/lIS 3025 (Part 26) : 1986Shall nParticulate size of SSmg/lAPHA MethodShall nFree residual chlorinemg/lIS 3025 (Part 26) : 2008Shall nMirate Nitrogenmg/lIS 3025 (Part 26) : 1986Shall nMirate Nitrogenmg/lIS 3025 (Part 25) : 2003GodMirate Nitrogenmg/lIS 3025 (Part 52) : 2003GodMirate Nitrogenmg/lIS 3025 (Part 52) : 2003God<	eport No. : ALPL/31052023/3-11Bdated $31/05/2023$ AnalysiTo : comundi Iron Mine ATA Steel Limited) mid, Jharkhand 	eport No. : ALPL/31052023/3-11B dated 31/05/2023 Page To : oamundi Iron Mine, ATA Steel Limited) andi, Jharkhand Code: 833217 Sample Inward No. Inward Date 833217 ALPL/23052023/MON-3/60-15&16 Reference Analysis Start Analysis Start Ie Name ge Water Sample Source Central Camp STP 50 KLD Sample Particulars Sample Condition Sample Code: WW-15 & 16 Sample Condition Sealed & Ice Preserved Sample Collected By Anacon Representative Mr. Sovan Giri Sampling Date 18/05/2023 Sampling Time 18/05/2023 Sampling Time 10.40 am to 4.50 pm Samplic Condition Sealed & Ice Preserved Measurement Unit Test Method Standards (In Land Surface Water) Test Method Standards (In Land Surface Water) Biological Testing Pollution & Environment MPN/100 ml IS 1622 : 1981 - 39 Chemical Testing Pollution & Environment - IS 3025 (Part 4) : 1983 Colourless 2 Colour Hazen units IS 3025 (Part 4) : 1983 Colourless 2 Tese residual chlorine mg/l IS 3025 (Part 26) : 1986 1.0 BDL(DL-0.1) Particulate size of SS Gravimetric Method 5 BDL(DL-0.1) Particulate size of SS mg/l IS 3025 (Part 26) : 1986 0.0 3.17 Free Ammonia (as NH ₃) mg/l APHA Method 5 BDL(DL-0.1)

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Verified By

Mangesh Fande **Technical Manager**

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway

Quality Manager

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

1

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Test Report

Test Report No.	: ALPL/3103		dated 31/05/202			Page 1 of 2			
Issued To :		Sample Inward No.	ALPL/23052023/MON-3/60-13&14		Analys	is Start	24/05/2023		
M/s Noamundi		Inward Date	23/05/2023		Analys	is End	30/05/2023		
	M/s TATA Steel Limited) loamundi, Jharkhand ostal Code: 833217 Reference Date		W.O 470009892	Report	Issue Date	31/05/2023			
			22.03.2022	Sample	e Category	Water			
Sample Name	the second second	ple Source	Sample Particulars		Sample	Condition	Quantity Received		
Sewage Water	and the second s	ETP 10 KLD Inlet COutlet	Sample Code-W	W-13 & 14	Sealed & I	ce Preserved	5.0 Ltr & 250 ml		
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date 18/05/2023	Bottom Bi			pling Location ETP 10 KLD Inlet & Outlet		

TEST RESULTS Standards (In **Test Result** Measurement S.N. **Test Parameter Test Method** Land Surface Unit Water) Inlet Outlet 1 **Chemical Testing** I **Pollution & Environment** 1 pH value IS 3025 (Part 11) : 2022 -5.5 to 9.0 6.57 at 25°C 6.98 at 25°C 2 Oil & Grease IS 3025 (Part 39): 1991 mg/l 10 BDL(DL-4) BDL(DL-4) 3 Total Suspended Solid (TSS) mg/l IS 3025 (Part 17): 1984 100 42 94 4 Ammonical Nitrogen (as N) IS 3025 (Part 34) :1988 mg/l 50 16.21 12.58 5 Total Kjeldahl Nitrogen (as N) IS 3025 (Part 34): 1988 mg/l 100 24.73 11.67 BOD (3 days at 27°C) 6 IS 3025 (Part 44) :1993 mg/l 30 28 14 7 Chemical Oxygen Demand IS 3025 (Part 58) :2006 mg/l 250 73 21 8 Cyanide (as CN) IS 3025 (Part 27): 1986 0.2 mg/l BDL(DL-0.1) BDL(DL-0.1) 9 Phenolic Compounds (as C6H5OH) mg/l IS 3025 (Part 43): 2022 1.0 BDL(DL-0.1) BDL(DL-0.1)

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

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







Test Report

Test Report No.	: ALPL/3105		dated 31/05/202	23		Pag	ge 2 of 2
Issued To :		Sample Inward No.	ALPL/23052023/	/MON-3/60-13&14	Analysi	s Start	24/05/2023
	/s Noamundi Iron Mine I/s TATA Steel Limited)		23/05/2023		Analysi	s End	30/05/2023
(M/s TATA Stee Noamundi, Jhark		Reference	W.O 470009892	28/962	Report	Issue Date	31/05/2023
Postal Code! 833	217	Reference Date	22.03.2022		Sample	Category	Water
Sample Name	Sam	ple Source	Sample Part	iculars	Sample C	Condition	Quantity Received
Sewage Water		ETP 10 KLD Inlet Coutlet	Sample Code-W	W-13 & 14	Sealed & Ic	e Preserved	5.0 Ltr & 250 ml
	nple Collected	l By r.Sovan Giri	Sampling Date	Sampling Ti 10.40 am to 4.5	onenders:	Contraction of the second s	oling Location ETP 10 KLD Inlet &

Standards **Test Result** Measurement (In Land S.N. **Test Parameter** Test Method Unit Surface Inlet Outlet Water) **Chemical Testing** п 2. Residues In Water 10 Iron (as Fe) mg/l IS 3025 (Part 2): 2019 3.0 0.79 0.14 11 Copper (as Cu) mg/l IS 3025 (Part 2): 2019 3.0 BDL(DL-5) BDL(DL-5) 12 Manganese (as Mn) mg/l IS 3025 (Part 2): 2019 2.0 BDL(DL-0.1) BDL(DL-0.1) 13 Mercury (as Hg) mg/l IS: 3025 (Part 48): 1994 0.01 BDL(DL-0.01) BDL(DL-0.01) 14 Cadmium (as Cd) mg/l IS: 3025 (Part 41): 1992 2.0 BDL(DL-0.1) BDL(DL-0.1) 15 Selenium (as Se) mg/l IS: 3025 (Part 56): 2003 0.05 BDL(DL-0.1) BDL(DL-0.1) 16 Lead (as Pb) mg/l IS 3025 (Part 47): 2003 0.1 BDL(DL-0.1) BDL(DL-0.1) 17 Arsenic (as As) mg/l IS: 3025 (Part 37): 2022 0.2 BDL(DL-0.05) BDL(DL-0.05) 18 Nickel (as Ni) mg/l IS:13428 : 2005(Annexure L) 3.0 BDL(DL-0.1) BDL(DL-0.1) 19 Zinc (as Zn) IS 3025 (Part 2): 2019 mg/l 5.0 BDL(DL-0.1) BDL(DL-0.1) 20 **Total Chromium** mg/l IS 3025 (Part 2) : 2019 2.0 BDL(DL-0.1) BDL(DL-0.1) 21 Vanadium (as V) mg/l IS 3025 (Part 2): 2019 0.2 BDL(DL-0.1) BDL(DL-0.1)

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

Verified By

Mangesh Fande Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab



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

Test Report

		1			_	*						
Test I	Report No.	: ALPL/3105	2023/3-1	0B		dated 31/05/20	23			Page	:10	f 1
	d To :			e Inward No	D.	ALPL/23052023	/MON-3/6	50-13&14	Analysi	is Start	2	4/05/2023
M/s N	loamundi	Iron Mine	Inwar	d Date		23/05/2023 .			Analysi	Analysis End 30/0		0/05/2023
(M/s '	TATA Stee	l Limited)	Refere			W.O 47000989	28/062					1/05/2023
Noam	undi, Jhark	chand							Category		ater	
Posta	l Code: 833	3217	Refere	nce Date		22.03.2022			Sample	Category	N	ater
Sam	ple Name	Sam	ple Sour	ce		Sample Par	ticulars		Sample (Condition	Qu	antity Received
Sewa	ge Water	Bottom Bin &	ETP 10 I & Outlet	KLD Inlet		Sample Code-WW-13 & 14			Sealed & Ic	e Preserved	5.	0 Ltr & 250 ml
	Sar	nple Collected	l By		Sampling Date Sampling Ti			ime	Samp	ling	Location	
		presentative M		Giri						Bottom Bin I	ETP	10 KLD Inlet &
						18/05/2023	10.4	0 am to 4.	50 pm		Out	let
						TEST RESU	LTS			4		
	T	. D		Measurem	ent	TestMad			ards (In	T	est F	Result
S.N.	N Test Parameter		Unit		Test Meth	oa	Land Surface Water)		Inlet		Outlet	
ľ	Biological	Testing 1.W	ater					2				
1	Faecal coli	form		MPN/100	ml	IS 1622 : 19	981	4		40		21
п	Chemical Pollution	Testing & Environm	ient			.1.	. <	2				
2	Colour			Hazen un	its	IS 3025 (Part 4):1983	Cole	ourless	2		0 (Colourless
3	Odour			-		IS 3025 (Part 5) : 2018		Odourless		Disagreeabl	e	Agreeable
4	Temperatu	re		°C		APHA Meth	2	5°C a receivi	ot exceed bove the ing water erature	25°C		25°C
5	Free residu	al chlorine		mg/l		IS 3025 (Part 26)):1986		.0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate	size of SS			1	Gravimetric N	lethod		pass 850 IS Sieve	<850		<850
7		onia (as NH3)		mg/l		APHA Met	hod	11. 11.	5	BDL(DL-0.	1)	BDL(DL-0.1
8	Fluoride (a			mg/l		IS 3025 (Part 60			2.0	0.26		BDL(DL-0.1
9	Sulphide (a			mg/l		IS 3025 (Part 29			2.0	BDL(DL-0.0)3)	BDL(DL-0.03
10	Nitrate Nit	rogen		mg/l		APHA Met	ıod		10	7.13		BDL(DL-2)
11.	Bio Assay	Test		%		APHA 22nd I	SPECIE STATES T	fish afte	urvival of er 96 hours % effluent	68%		92%
12	Hexavalen	t Chromium (a	is Cr ⁺⁶)	mg/l		IS 3025 (Part 5)	2):2003		0.1	BDL(DL-0.0	1)	BDL(DL-0.01
13	Dissolved	Phosphate (as	P)	mg/l		IS 3025 (Part 31			5.0	BDL(DL-0.		BDL(DL-0.1

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Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

Poola Kathane Technical Manager

Dr. (Mrs.) S.D. Garway

Quality Manager



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Test Report

1

ULR No.- TC545823000001289F

Test Report No. :	ALPL/3105	2023/3-12A	dated 31/05/202	23		Pag	ge 1 of 2	
Issued To :		Sample Inward No.	ALPL/23052023/	MON-3/60-17&18	Analys	is Start	24/05/2023	
M/s Noamundi I		Inward Date	23/05/2023	23/05/2023		is End	30/05/2023	
	M/s TATA Steel Limited)		W.O 4700098928/962		Report	Issue Date	31/05/2023	
Noamundi, Jharkhand Postal Code: 833217 Refere		Reference Date	22.03.2022	Sample	e Category	Water		
Sample Name	Sam	ple Source	Sample Particulars		Sample	Condition	Quantity Received	
Sewage Water	Sewage Water Hospital ETP 10 KLD Inlet & Outlet		Sample Code-WW-17 & 18		Sealed & I	ce Preserved	5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr.Sovan Giri		Sampling Date 18/05/2023			Hospi	pling Location tal ETP 10 KLD let & Outlet		

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
0.14.	rest i arameter	Unit	Test Method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			24			
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.71 at 25°C	7.14 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	84	34	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	28	16	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	36	18	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	24	12	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	76	38	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

1.

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ALPL/31052					Page 2 of 2
N. P.T. NC.		ALPL/23052023/	/MON-3/60-17&18	Analysis Start	24/05/2023
1/s TATA Steel Limited) Reference		23/05/2023 W.O 4700098928/962		Analysis End	30/05/2023
				Report Issue Da	ite 31/05/2023
17	Reference Date	22.03.2022		Sample Categor	y Water
Samp	le Source	Sample Part	iculars	Sample Condition	Quantity Received
		Sample Code-WW-17 & 18		Sealed & Ice Preserv	ved 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr.Sovan Giri		Sampling Date 18/05/2023		II.	Sampling Location ospital ETP 10 KLD Inlet & Outlet
	on Mine Limited) and 17 Samp Hospital Inlet ole Collected	Limited) and 17 Reference Reference Date Sample Source Hospital ETP 10 KLD Inlet & Outlet Sole Collected By	Sample Inward No.ALPL/23052023Inward Date23/05/2023Inward Date23/05/2023ReferenceW.O 470009893Reference Date22.03.2022Sample SourceSample PartHospital ETP 10 KLD Inlet & OutletSample Code-WDe Collected BySampling Date	Sample Inward No. ALPL/23052023/MON-3/60-17&18 Inward Date 23/05/2023 Inward Date 23/05/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 Sample Source Sample Particulars Hospital ETP 10 KLD Sample Code-WW-17 & 18 Inlet & Outlet Sampling Date Sampling T	Sample Inward No. ALPL/23052023/MON-3/60-17&18 Analysis Start Inward Date 23/05/2023 Analysis Start Limited) Reference W.O 4700098928/962 Report Issue Date 17 Reference Date 22.03.2022 Sample Categor Sample Source Sample Particulars Sample Code-WW-17 & 18 Hospital ETP 10 KLD Sample Code-WW-17 & 18 Sealed & Ice Preserv Del Collected By Sampling Date Sampling Time

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land	Test Result		
		Unit	rest method	Surface Water)	Inlet	Outlet	
п	Chemical Testing 2. Residues In Water			R			
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	0.85	0.47	
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)	
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
13	Mercury (as Hg)	mg/l	IS: 3025 (Rart 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l	IS 3025 (Part 47): 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
18	Nickel (as Ni)	mg/l	IS:13428 : 2005(Annexure L)	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified By

les Mangesh Fande Technical Manager

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----End of Report----

Authorized Signatory

Jaw

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test	Report No. :	ALPL/310520)23/3-12B		dated 31/05/20	23				Page 1 of 1
	ed To :		Sample Inward No).	ALPL/23052023		60-17&18	Analys	is Start	24/05/2023
M/s	Noamundi I		Inward Date		23/05/2023					
(M/s	TATA Steel	Limitad)	Reference		controls V III is created when when all			Analys		30/05/2023
Noan	nundi, Jhark	hand	Reference		w.O 47000989	28/962			Issue Date	31/05/2023
Posta	l Code: 833	217	Reference Date		22.03.2022			Sampl	e Category	Water
Sam	ple Name		e Source		Sample Par	ticulars		Sample	Condition	Quantity Receive
Sewa	age Water		ETP 10 KLD & Outlet		Sample Code-W	W-17 &	18	Sealed & I	ce Preserved	5.0 Ltr & 250 ml
		ple Collected I		S	Sampling Date Sampling Tin		me	Sampl	ing Location	
	Anacon Rep	resentative Mr.S	Sovan Giri		. o					ETP 10 KLD
					18/05/2023	10.4	40 am to 4.5	0 pm		t & Outlet
					TEST RESU	LTS			d.	
S.N.	Tes	t Parameter	Measurem	ent	Test Meth	od		rds (In Surface	Te	st Result
	Unit		Unit		14		100000000000000000000000000000000000000	ter)	Inlet	Outlet
I	Biological 7	Festing 1.Wat	er				6	1		
1	Faecal colife	orm	MPN/100 1	ml	IS 1622 : 19	081	100	-	33	22
п	Chemical 7 Pollution &	Testing & Environmer	nt			-	2.1			
2	Colour		Hazen uni	ts	IS 3025 (Part 4)	• 1983	Color	irlece	2	0 (Colourless
3	Odour		-	-	IS 3025 (Part 4) : 1985		Odourless		Disagreeable	the second se
4	Temperature	e	°C		APHA Meth	de la		t exceed ove the	25°C	Agreeable 25 ⁰ C
							tempe	-		
5	Free residua	l chlorine	mg/l		IS 3025 (Part 26)	: 1986	1.0		BDL(DL-0.1)	BDL(DL-0.1)
6.	Particulate s	1111111		0	Gravimetric M		Shall pa micron l		<850	<850
7	Free Ammon	nia (as NH ₃)	mg/l		APHA Meth	nod	5		BDL(DL-0.1)	BDL(DL-0.1
8	Fluoride (as		mg/l		IS 3025 (Part 60):2008	2.		0.18	BDL(DL-0.1
9	Sulphide (as		mg/l		IS 3025 (Part 29)		2.		BDL(DL-0.03	
10	Nitrate Nitro	ogen	mg/l		APHA Meth		1		7.24	BDL(DL-0.03
11	Bio Assay T		%		APHA 22nd E		90% Sur fish after in 100%	vival of 96 hours	82%	94%
12		Chromium (as C	Cr ⁺⁶) mg/l		IS 3025 (Part 52):2003	0.	and the second se	BDL(DL-0.01) BDL(DL-0.01
13	Dissolved Ph	nosphate (as P)	mg/l		IS 3025 (Part 52) : 2003 IS 3025 (Part 31) : 1988		5.		BDL(DL-0.1)	BDL(DL-0.1)

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End of Report----

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Kathand Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager



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UI D No

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Test Report

Test Report No. : ALPL/30062023/3-20A Issued To : Sample Inward No.							
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, JharkhandInward Date ReferencePostal Code: 833217Reference Date		22/06/2023 W.O 4700098928/962		Analys	sis Start sis End	23/06/2023 30/06/2023 30/06/2023 Water	
		22.03.2022		t Issue Date e Category			
Sample Name Sewage Water	New Town	ple Source Ship STP 50 KLD t & Outlet	Sample Part Sample Code-W			Condition ce Preserved	Quantity Receive
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date 17/06/2023	Sampling T 11.20 am to 4.	ime Sampling Loca 55 pm New Town Ship STI		pling Location

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Standards (In Land Surface	Test Result	
		Om		Water)	Inlet	Outlet
I	Chemical Testing Pollution & Environment			1		Outlet
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.86	-
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991		6.76 at 25°C	6.82 at 25°C
3	Total Suspended Solid (TSS)	mg/l	IS 2025 (Part 17) 1004	10	BDL(DL-4)	BDL(DL-4)
4	Ammonical Nitrogen (as N)		IS 3025 (Part 17) : 1984	100	87	26
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	19.2	14.7
6	ROD (2 daws at 2700)	mg/l	IS 3025 (Part 34) : 1988	100	26.1	18.4
7	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	18
/	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	78	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986			47
9	Phenolic Compounds (as C6H3OH)	mg/l		0.2	BDL(DL-0.1)	BDL(DL-0.1
	(in e813011)	mg/1	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1

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Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

Gam

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000001716F

Test Report No. Issued To :	: ALPL/3006	Sample Inward No.		dated 30/06/2023			ge 2 of 2	
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand		Sample Inward No. ALPL/220620 Inward Date 22/06/2023 Reference W.O 470009 Reference Date 22.03.2022		928/962 Ana Rep		sis Start sis End t Issue Date e Category	23/06/2023 30/06/2023 30/06/2023 Water	
Sample Name Sewage Water	New Town	ple Source Ship STP 50 KLD t & Outlet	Sample Part Sample Code-W		Sample	Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date 17/06/2023	3 11.20 am to 4.55 pm New To		New Town	npling Location vn Ship STP 50 KLD	
			TEST RESU	LTS		I In	let & Outlet	
					and all			

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land	Test Result	
	CI 1 1 m	Unit	i est method	Surface Water)	Inlet	Outlet
П	Chemical Testing 2. Residues In Water		14			
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1 20		
11	Copper (as Cu)	mg/l		3.0	0.98	0.32
12	Manganese (as Mn)		IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)
13	Mercury (as Hg)	mg/l	IS 3025 (Part 2): 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)
15		mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)
	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1		BDL(DL-0.1)
17	Arsenic (as As)	mg/l	IS : 3025 (Part 37) : 2022		BDL(DL-0.1)	BDL(DL-0.1)
18	Nickel (as Ni)	mg/l		0.2	BDL(DL-0.05)	BDL(DL-0.05)
19	Zinc (as Zn)		IS 3025 (Part 2) : 2019	- 3.0	BDL(DL-0.1)	BDL(DL-0.1)
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
~1	vanaulum (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)

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

Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

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		: ALPL/3006			dated 30/06/20					e 1 of 1
	d To :		Sample	Inward No.	ALPL/22062023/MON-4/24-11&12 An		Analys	is Start	23/06/2023	
M/s Noamundi Iron Mine Inwar		Inward	Date	22/06/2023			Analys	is End	30/06/2023	
(M/s TATA Steel Limited) Refer		Referen	ice	W.O 47000989	28/962		Report	Issue Date	30/06/2023	
	undi, Jhark		Referen	ce Date	22.03.2022				e Category	Water
	Usial Code. 833217							and the second		10/00162010
Sam	ple Name		ple Sourc		Sample Par	ticulars		Sample	Condition	Quantity Receiv
Sewage Water New Town Ship STP 50 KLD Inlet & Outlet				Sample Code-WW-11 & 12 Sea			Sealed & I	ealed & Ice Preserved 5		
	San	nple Collected	By		Sampling Date	Sa	ampling Ti	me	Sampl	ing Location
	Anacon Representative Mr.Sovan Giri			iri	17/06/2023 11.20 am to 4.55		55 pm	New Town	Ship STP 50 KLD	
					TEST RESU	LTS				
S.N.	Te	st Parameter	8 m. 1	Measuremen	t Test Meth	od		ards (In Surface	Test Result	
	The second		Unit			iter)	Inlet	Outlet		
I	Biological	Testing 1.W	ater					and the second s		
1	Faecal coli	Faecal coliform MPN/100		MPN/100 ml	IS 1622 : 1981		-	39	32	
п	Chemical Pollution	Testing & Environm	ent			1.5	6			
2	Colour			Hazen units	IS 3025 (Part 4) : 1983 Co		Colo	urless	2	0 (Colourle
3	Odour				IS 3025 (Part 5) : 2018		Odourless		Disagreeable	
4	Temperature		°C	APHA Method		Shall not exceed 5°C above the receiving water temperature		25ºC	25°C	
5	Free residu	al chlorine		mg/l	IS 3025 (Part 26) : 1986		1.0		BDL(DL-0.1	BDL(DL-0.1
6	Particulate	size of SS			Gravimetric Method			ass 850 IS Sieve	<850	<850
7		onia (as NH ₃)		mg/l	APHA Met	hod	5		BDL(DL-0.1) BDL(DL-0.
8	Fluoride (as F) mg/l		mg/l	IS 3025 (Part 60) : 2008		2	.0	0.38	BDL(DL-0	
9	Sulphide (a			mg/l	IS 3025 (Part 29) : 1986		2	.0	BDL(DL-0.0	
10	Nitrate Nitrogen mg/l		mg/l	APHA Meth		10		4.6	BDL(DL-2	
11	Bio Assay Test		0	%	APHA 22nd Edition		90% Survival of fish after 96 hours in 100% effluent		82%	94%
12		Chromium (as		mg/l	IS 3025 (Part 2) : 2019		0.		BDL(DL-0.01) BDL(DL-0.0
13	Dissolved H	hosphate (as F	2)	mg/l		IS 3025 (Part 31) : 1988 5.0		BDL(DL-0.1		

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Verified By

Mangesh Fande Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Rathane Technical Manager

ea

Dr. (Mrs.) S.D. Garway Quality Manager

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



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Test Report

ULR No.- TC545823000001716F

Test Report No.	: ALPL/3006	2023/3-22A	dated 30/06/202	23		Page 1 of 2	
Issued To :	ssued To : Sample Inward No.		ALPL/22062023	ALPL/22062023/MON-4/24-15&16		is Start	23/06/2023
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217Inward Date Reference Reference Date		22/06/2023	22/06/2023		is End	30/06/2023	
		Reference	W.O 47000989	Report	Issue Date	30/06/2023	
		Reference Date	22.03.2022		Sample	e Category	Water
Sample Name	Central Camp STP 50 KLD		Sample Part	ticulars	Sample Condition		Quantity Received
Sewage Water			Sample Code-WW-15 & 16		Sealed & I	ce Preserved	5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date Sampling Ti			Central Comp STP 5	
			17/06/2023	11.20 am to 4.	.55 pm	Inlet & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Mathed	Standards (In	Test Result		
5.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment		-	6			
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.72 at 25°C	6.91 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	86	42	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	16.3	11.4	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	21.9	16.7	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	14	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	78	36	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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 shalltnot 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'. • BDL-Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent'.

Verified by

Snéhal Raut

Deputy Technical Manager

14

----End of Report----

Authorized Signatory

Toamp

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000001716F

Test Report No. :	ALPL/3006	2023/3-22A	dated 30/06/2023		20	Pag	ge 2 of 2	
Issued To :		Sample Inward No.	ALPL/22062023/MON-4/24-15&16		Analys	is Start	23/06/2023	
M/s Noamundi I		Inward Date	22/06/2023		Analys	is End	30/06/2023	
Noamundi, Jharkhand		Reference	W.O 4700098928/962			Issue Date	30/06/2023	
		Reference Date	22.03.2022			e Category	Water	
Sample Name		ple Source	Sample Particulars		Sample (Condition	Quantity Received	
Sewage Water	Sewage Water Central Camp STP 50 KLD Inlet & Outlet		Sample Code-WW-15 & 16		Sealed & Io	ce Preserved	5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr.Sovan Giri		l By	Sampling Date Sampling Ti		lime	Sam	pling Location	
		17/06/2023	11.20 am to 4			Camp STP 50 KLD let & Outlet		

TEST RESULTS

		Measurement		Standards (In Land	Test	Result	
S.N.	.N. Test Parameter	Test Parameter Unit		Test Method	Surface Water)	Inlet	Outlet
п	Chemical Testing 2. Residues In Water		4				
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	2.81	0.89	
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)	
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
18	Nickel (as Ni)	mg/l	IS 3025, (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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-End of Report----

Verified By

Mangesh Fande Technical Manager

Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test	Report No.	: ALPL/3006			dated 30/06/20				Page 1 of 1	
	ed To :		Sample Inward	No.	ALPL/22062023	MON-4	/24-15&16	Analy	sis Start	23/06/2023
	Noamundi		Inward Date		22/06/2023			Analy	sis End	30/06/2023
	TATA Stee		Reference		W.O 4700098928/962				t Issue Date	30/06/2023
	nundi, Jhark		Reference Date		22.03.2022				e Category	Water
	l Code: 833	Contraction in the second			22.03.2022			Sump	e category	water
Sam	ple Name	A TRACTAGE AND	ole Source		Sample Par	ticulars		Sample	Condition	Quantity Received
Sewa	ige Water	Inle	np STP 50 KLD & Outlet		Sample Code-W	W-15 &	16	Sealed & I	ce Preserved	5.0 Ltr & 250 ml
		ple Collected		1 :	Sampling Date	S	ampling T	ime	Samp	ling Location
	Anacon Rep	resentative Mi	Sovan Giri		17/06/2023	11 *	20 am to 4.	55	and the second sec	amp STP 50 KLD
_							20 am 10 4.	55 pm		et & Outlet
-	1000				TEST RESU	LTS	_	1	-	
S.N.	, Test Parameter Measuren				Test Meth	bd		ards (In Surface	T	est Result
	/ Unit		L			w	ater)	Inlet	Outlet	
I	Biological	Testing 1.Wa	iter				1	100		
1	Faecal coliform MPN/100 r		00 ml	IS 1622 : 19	81	Car		84	34	
П	Chemical Pollution	Testing & Environme	ent		· ~ + · ·					
2	Colour		Hazen u	inits	IS 3025 (Part 4)	• 1983	Col	ourless	2	0.(C-11
3	Odour		-		IS 3025 (Part 5) : 2018				Disagreeable	0 (Colourless e Agreeable
4	Temperature	e	°C		APHA Method		Shall not exceed 5°C above the receiving water temperature		25°C	25°C
5	Free residua	al chlorine	mg/	1	IS 3025 (Part 26)	: 1986	1.		BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate s				Gravimetric M			ass 850 IS Sieve	<850	<850
7	Free Ammo	nia (as NH ₃)	mg/		APHA Meth	od		5	BDL(DL-0.1) BDL(DL-0.1)
8	Fluoride (as		mg/l		IS 3025 (Part 60)	Second 1		.0	0.14	BDL(DL-0.1)
9	Sulphide (as		mg/l		IS 3025 (Part 29)			.0	BDL(DL-0.03	
10	Nitrate Nitro	ogen	mg/l		APHA Meth			0	2.93	BDL(DL-0.03)
11	/ Bio Assay T		%		APHA 22nd E	lition	fish after	rvival of 96 hours effluent	86%	92%
12		Chromium (as			IS 3025 (Part 2)	: 2019		.1	BDL(DL-0.01) BDL(DL-0.01)
13	Dissolved Pl	hosphate (as P	mg/l		IS 3025 (Part 31)			.0	BDL(DL-0.1	

1.

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-----End of Report---

Verified By

1 Mangesh Fande Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

as

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

ULR No.- TC545823000001716F

Test Report No.	:ALPL/3006	2023/3-21A	dated 30/06/202	23		Page 1 of 2		
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand		Sample Inward No Inward Date Reference Reference Date	22/06/2023 W.O 4700098928/962 22.03.2022 Sample Particulars		Analys	sis Start sis End t Issue Date e Category	23/06/2023 30/06/2023 30/06/2023 Water Quantity Received 5.0 Ltr & 250 ml	
Sample Name Sewage Water	Bottom Bin ETD 10 KI D Islat					Condition ce Preserved		
Sample Collected By Anacon Representative Mr.Sovan Giri			Sampling Date 17/06/2023	Sampling Date Sampling Tin			pling Location ETP 10 KLD Inlet & Outlet	

TEST RESULTS

S.N.	/ Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
		Unit		Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			65			
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.43 at 25°C	6.71 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)		
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17) : 1984	100	87	BDL(DL-4)	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50		38	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	26.58	14.93	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	21.67	12.31	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006		24	18	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	250	72	43	
9	Phenolic Compounds (as C6H3OH)			0.2	BDL(DL-0.1)	BDL(DL-0.1)	
-	Thenene compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1	

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

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Dr. (Mrs.) S. D. Garway **Quality Manager**

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Test Report

1:

ULR No.- TC545823000001716F

2023/3-21A	dated 30/06/202	23		Page 2 of 2	
Sample Inward No. Inward Date Reference Reference Date	ALPL/22062023/MON-4/24-13&14 22/06/2023 W.O 4700098928/962 22.03.2022 Sample Particulars		Analy Repor	sis Start sis End t Issue Date	23/06/2023 30/06/2023 30/06/2023 Water
ETP 10 KLD Inlet			Sample Condition Sealed & Ice Preserved		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr.Sovan Giri					pling Location ETP 10 KLD Inlet & Outlet
	TEST RESU	LTS			outlet
	Inward Date Reference Reference Date ple Source ETP 10 KLD Inlet COutlet	Sample Inward No.ALPL/22062023Inward Date22/06/2023ReferenceW.O 47000989Reference Date22.03.2022ple SourceSample PartETP 10 KLD InletSample Code-WI BySampling Dater.Sovan Giri17/06/2023	Sample Inward No.ALPL/22062023/MON-4/24-13&14Inward Date22/06/2023ReferenceW.O 4700098928/962Reference Date22.03.2022ple SourceSample ParticularsETP 10 KLD Inlet 2 OutletSample Code-WW-13 & 14I BySampling DateSampling T	Sample Inward No.ALPL/22062023/MON-4/24-13&14AnalyInward Date22/06/2023AnalyReferenceW.O 4700098928/962ReporReference Date22.03.2022Sampleple SourceSample ParticularsSampleETP 10 KLD InletSample Code-WW-13 & 14Sealed & 100000000000000000000000000000000000	Sample Inward No. ALPL/22062023/MON-4/24-13&14 Analysis Start Inward Date 22/06/2023 Analysis Start Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Category ple Source Sample Particulars Sample Condition ETP 10 KLD Inlet Sample Code-WW-13 & 14 Sealed & Ice Preserved Iby Sampling Date Sampling Time Sample r.Sovan Giri 17/06/2023 11.20 am to 4.55 pm Bottom Bin

S.N.	Test Parameter	Measurement	ement Test Method		Test Result	
	rest i manieter	Unit	Test Method	Surface Water)	Inlet	Outlet
П	Chemical Testing 2. Residues In Water			X		
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	1.65	0.45
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.03) BDL(DL-0.1)
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)

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

Verified By

Mangesh Fande

Technical Manager

--- End of Report----

Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

		: ALPL/30062		Cardon and the Cardon Car	dated 30/06/20				Page 1 of 1		
	ed To :		Sample Inv	ward No.	ALPL/22062023	3/MON-4	/24-13&14	Analy	sis Start	2	3/06/2023
	Noamundi		Inward Da	te	22/06/2023			Analy	sis End		0/06/2023
(M/s	TATA Stee	el Limited)	Reference		W.O 47000989	28/962			t Issue Date		
Noai	nundi, Jharl	khand	Reference I	D.4.		20/702			e Category		0/06/2023 Vater
-	al Code: 833	3217	Reference	Date	22.03.2022			Samp	e Category	v	vater
Sam	ple Name		le Source		Sample Par	ticulars		Sample	Condition	Ou	antity Received
Sew	ewage Water Bottom Bin ETP 10 KLD Inlet & Outlet			Inlet	Sample Code-W	/W-13 &	14	Sealed & 1	ce Preserved		0 Ltr & 250 ml
		nple Collected		5	Sampling Date	S	ampling Ti	me	Samn	ling	Location
	Anacon Rej	presentative Mr.	.Sovan Giri		17/06/2023		20 am to 4.5				10 KLD Inlet &
	1. 18				TEST RESU	LTS			A	Out	let
S.N.	1 cst rarameter			asurement	Test Meth	od	Standa Land S		Т	Test Result	
				Unit			Water)		Inlet		Outlet
I	Biological	Testing 1.Wa	ter				20				
1	Faecal coli	form	MP	PN/100 ml	IS 1622 : 19	981	60.2		27		21
II:	Chemical Pollution	Testing & Environme	nt						1		
2	Colour			zen units	IS 3025 (Part 4)	: 1983	Colou	rless	2		0 (Colourless)
3	Odour				IS 3025 (Part 5)		Odou		Disagreeabl	0	Agreeable
4	Temperatur			°C	120		Shall not exceed 5°C above the receiving water temperature		25°C		25°C
5	Free residu	al chlorine		mg/l	IS 3025 (Part 26)	: 1986	1.0		BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate			1	Gravimetric M	ethod	Shall pa micron I		<850		<850
7		onia (as NH ₃)		mg/l	APHA Meth	nod	5		BDL(DL-0.1	1)	BDL(DL-0.1)
8	Fluoride (as			mg/l	IS 3025 (Part 60		2.0)	0.37	/	BDL(DL-0.1)
9	Sulphide (a			mg/l	IS 3025 (Part 29)		2.0		BDL(DL-0.0	3)	BDL(DL-0.03)
10	Nitrate Nitr	ogen		mg/l	APHA Meth		10		6.94		BDL(DL-0.03) BDL(DL-2)
11	Bio Assay 7			%	APHA 22nd E		90% Sur fish after 9 in 100% d	vival of 96 hours	74%		92%
12		Chromium (as		mg/l	IS 3025 (Part 2)	: 2019	0.1		BDL(DL-0.01	1)	BDL(DL-0.01)
13	Dissolved P	hosphate (as P)		mg/l	IS 3025 (Part 31)		5 (DDL(DL-0.01		DDL(DL-0.01)

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IS 3025 (Part 31): 1988

Verified By

Dissolved Phosphate (as P)

Mangesh Fande

Technical Manager

Snehal Raut Deputy Technical Manager

mg/l

Pooja Kathane

Technical Manager

5.0

Authorized Signatories yan

BDL(DL-0.1)

Dr. (Mrs.) S.D. Garway Quality Manager

BDL(DL-0.1)

-----End of Report--



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Test Report

1.

ULR No.- TC545823000001716F

Test Report No. :	ALPL/3006	2023/3-23A	dated 30/06/2023			Page 1 of 2		
Issued To : Sample Inwa M/s Noamundi Iron Mine (M/s TATA Steel Limited) Reference Noamundi Ibarkhand		Sample Inward No. Inward Date	22/06/2023 W.O 4700098928/962 22.03.2022 Sample Particulars Sample Code-WW-17 & 18		Analysis Start Analysis End Report Issue Date Sample Category		23/06/2023 30/06/2023 30/06/2023 Water	
Sample Name Sewage Water	Sample Name Sample Source Hospital ETP 10 KLD				10-10-10-10-10-10-10-10-10-10-10-10-10-1	Condition	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative Mr.Sovan Giri		Sampling Date			Hospi	pling Location tal ETP 10 KLD ilet & Outlet		

TEST RESULTS

-		Measurement	100 B 10 B	Standards (In	Test Result		
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment				6.87 at 25 ⁰ C	7.16 at 25 ⁰ C	
1	pH value	4	IS 3025 (Part 11) : 2022	5.5 to 9.0		BDL(DL-4)	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)		
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	82	36	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	32	21	
	Total Kjeldahl Nitrogen (as N)	mg/l	1S 3025 (Part 34) : 1988	100	46	28	
5		mg/l	IS 3025 (Part 44) :1993	30	28	16	
6.	BOD (3 days at 27°C)		IS 3025 (Part 58) :2006	250	81	42	
7	Chemical Oxygen Demand	mg/l			BDL(DL-0.1)	BDL(DL-0.1)	
8	Cvanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.2			
9	Phenolic Compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut

Deputy Technical Manager

----End of Report----

Authorized Signatory

Jan

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000001716F

Test Report No. :	Fest Report No. : ALPL/30062023/3-23A			dated 30/06/2023		Page 2 of 2	
Issued To :		Sample Inward No.	ALPL/22062023/	MON-4/24-17&18	Analys	is Start	23/06/2023
M/s Noamundi Iron Mine (M/s TATA Steel Limited)Inward Date ReferenceNoamundi, Jharkhand Postal Code: 833217Reference Date		Reference	22/06/2023, W.O 4700098928/962 22.03.2022		Analysis End Report Issue Date Sample Category		30/06/2023 30/06/2023 Water
Sample Name Sewage Water	Hospital FTP 10 KLD		Sample Particulars Sample Code-WW-17 & 18		Sample Condition Sealed & Ice Preserved		Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative Mr.Sovan Giri		Sampling Date Sampling Ti 17/06/2023 11.20 am to 4.5			Hospi	pling Location tal ETP 10 KLD let & Outlet	

TEST RESULTS

· S.N.	Test Parameter	Measurement	Test Method	Standards (In Land	Test Result		
5.14.	rest r arameter	Unit	Test Method	Surface Water)	Inlet	Outlet	
• П.	Chemical Testing 2. Residues In Water			275			
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	1.82	0.54	
11	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	3.0	BDL(DL-5)	BDL(DL-5)	
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l	IS 3025 (Part 47): 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2): 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified By

Mangesh Fande

Technical Manager

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

Authorized Signatory

Gan

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab



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Test Report

1

Test l	Report No. :	ALPL/300620	023/3-23B		dated 30/06/20	23			Page 1 of 1		
Issue	d To :		Sample Inward	No.	ALPL/22062023	/MON-4/	24-17&18	Analys	is Start	23/06/2023	
	Noamundi I		Inward Date		22/06/2023			Analys		30/06/2023	
	TATA Steel		Reference		W.O 47000989	28/962		Report Issue Date		30/06/2023	
	undi, Jharkl				the second second	20/ 702			e Category	Water	
Posta	l Code: 8332	217	Reference Date		22.03.2022			Sampi	category	water	
Sam	ple Name	Samp	e Source		Sample Particulars			Sample	Quantity Received		
Sewa	ige Water		ETP 10 KLD & Outlet		Sample Code-WW-17 & 18			Sealed & I	ce Preserved	5.0 Ltr & 250 ml	
-	/ Sam	ple Collected	By	S	ampling Date	S	mpling Tir	ne	Sampl	ing Location	
	Anacon Rep	resentative Mr.	Sovan Giri		17/06/2023	11.2	0 am to 4.5:	5 pm	Hospita	ETP 10 KLD t & Outlet	
		televity. So			TEST RESU	LTS			E.		
S.N.	Tes	t Parameter	Measure		Test-Meth	od	Standa Land S		Te	st Result	
			Uni	t	resquirem	ou	Wat		Inlet	Outlet	
I	Biological Testing 1.Water					0	Surger of the second second				
1	Faecal colif	orm	MPN/10	00 ml	IS 1622 : 19	981	1 () <u>1</u>		43	40	
п	Chemical Pollution a	Testing & Environme	nt			. 4	2				
2	Colour	The desire	Hazen u	inits	IS 3025 (Part 4): 1983	Colou	rless	2	0 (Colourless	
3	Odour		-		IS 3025 (Part 5) : 2018		Odourless		Disagreeable		
4	Temperature		°C		APHA Meth	nod	Shall not 5°C abo receivin temper	exceed ove the g water	25ºC	25°C	
5	Free residua	l chlorine	mg/	1	IS 3025 (Part 26)	: 1986	1.0		BDL(DL-0.1)	BDL(DL-0.1)	
6	Particulate s	size of SS			Gravimetric M	lethod	Shall pa micron I		<850	<850	
7		nia (as NH3)	mg/	1	APHA Met	hod	5		BDL(DL-0.1) BDL(DL-0.1	
8	Fluoride (as		mg/	1	IS 3025 (Part 60		2.	0	0.28	BDL(DL-0.1	
9	Sulphide (as		mg/	1	IS 3025 (Part 29		2.	0	BDL(DL-0.03	3) BDL(DL-0.03	
10	Nitrate Nitro	ogen	mg/	1	APHA Meth	od	10)	7.93	BDL(DL-2)	
11	Bio Assay Test %			APHA 22nd E	dition	90% Sur fish after in 100%	96 hours	74%	92%		
12	Hexavalent	Chromium (as	Cr ⁺⁶) mg/	1	IS 3025 (Part 2):2019	0.		BDL(DL-0.01) BDL(DL-0.01	
13	Dissolved P	hosphate (as P)	mg/	1	IS 3025 (Part 31		5.	0	BDL(DL-0.1		

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Verified By

Mangesh Fande Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

1 an

Dr. (Mrs.) S.D. Garway Quality Manager



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-----End of Report--



TTCE 15000000

TTT TO ME

Anacon Laboratories





TC 5458

Test Report

Test Report No.	: ALPL/31072	2023/3-9A	dated 31/07/20	23			Page 1 of 2	
Issued To :		Sample Inward No.	ALPL/25072023	3/MON-1/24-11&12	Analys	is Start	25/07/2023	
M/s Noamundi		Inward Date	25/07/2023		Analys	is End	31/07/2023	
(M/s TATA Stee Noamundi, Jhark		Reference	W.O 47000989	28/962	Report	Issue Date	31/07/2023	
and the second	Ostal Code: 833217 Reference Date			22.03.2022			Water	
Sample Name Sample Source		Sample Par	Sample (Condition	Quantity Received			
Sewage Water	Sewage Water New Town Ship STP 50 KLD Inlet & Outlet		Sample Code-WW-11 & 12 Se		Sealed & Io	e Preserved	5.0 Ltr & 250 ml	
Sar	ple Collected	Ву	Sampling Date	Sampling T	ìme	Sam	pling Location	
Anacon Representative			21/07/2023	Nam To				
			TEST RESU	LTS		N. 1999.00		

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test F	Result
2.1.0	r ost i urameter	Unit	i est Miethou	Water)	Inlet	Outlet
I	Chemical Testing Pollution & Environment			S.		I
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.87 at 25°C	7.13 at 25°C
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	76	28
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	18.4	13.9
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	24.1	17.6
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	24	16
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	73	42
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)

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Verified by

Snehal Raut Deputy Technical Manager Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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19

20

21

Zinc (as Zn)

Total Chromium

Vanadium (as V)

Anacon Laboratories





TC 5458

BDL(DL-0.1)

BDL(DL-0.1)

BDL(DL-0.1)

Test Report

ULR No TC545823000002079F	F)79	020	00	00	30	582	4	C5	T	No	RM	JLI	1
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		: ALPL/31072		9A		dated 31/07/20)23			Page	e 2 of 2
Issue	d To :		Samp	le Inward N	0.	ALPL/2507202	3/MON-1/24-1	1&12	Anal	ysis Start	25/07/2023
	Noamundi		Inwar	d Date		25/07/2023			Anal	ysis End	31/07/2023
	TATA Stee		Refere	ence		W.O 4700098	078/062			rt Issue Date	31/07/2023
	nundi, Jhark						201702			ole Category	Water
Posta	1 Code: 833	217	Refere	ence Date		22.03.2022			Joam	ne Category	water
Sam	ple Name	Sam	ple Sour	ce		Sample Particulars				e Condition	Quantity Received
Sewa	ige Water	New Town S Inle	Ship STI t & Outl			Sample Code-W				Ice Preserved	5.0 Ltr & 250 ml
	San	ple Collected	By		Sa	ampling Date	Samp	ling T	ime	Samp	ling Location
	Ana	con Representa	ative			21/07/2023	11.50 ar			New Town	Ship STP 50 KLD et & Outlet
						TEST RESU	JLTS				
S.N.	N. Test Parameter Measur			Measurem	ent				ndards Land	Te	st Result
5.14.	16	st i ar ameter		Unit		Test Me	thod		rface (ater)	Inlet	Outlet
п	Chemical 7 2. Residue	Festing s In Water									
10	Iron (as Fe)			mg/l		IS 3025 (Part	2):2019	C.o.	3.0	0.46	0.34
11	Copper (as		-Vielini	mg/l		IS 3025 (Par	t 2): 2019	1	3.0	BDL(DL-5)	BDL(DL-5)
12	Manganese		1000	mg/l		IS 3025 (Par	t 2): 2019		2.0	BDL(DL-0.1)	
13	Mercury (a			mg/l		IS: 3025 (Part	48): 1994	(0.01	BDL(DL-0.01)	
14	Cadmium (mg/l	1	IS: 3025 (Part	41):1992		2.0	BDL(DL-0.1)	BDL(DL-0.1)
15	Selenium (a			mg/l		IS : 3025 (Par	t 56): 2003	().05	BDL(DL-0.1)	BDL(DL-0.1)
16	Lead (as Pb			mg/l		IS 3025 (Part	47):2003		0.1	BDL(DL-0.1)	BDL(DL-0.1)
17	Arsenic (as			mg/l		IS: 3025 (Part	37):2022		0.2	BDL(DL-0.05)	
18	Nickel (as 1	Ni)		mg/l		IS 3025 (Part	(2):2019		3.0	BDL(DL-0.1)	BDL(DL-0.1)

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IS 3025 (Part 2) : 2019

IS 3025 (Part 2): 2019

IS 3025 (Part 2): 2019

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

mg/l

mg/l

mg/l

Verified By

Mangesh Fande

Technical Manager

----End of Report----

Authorized Signatory

BDL(DL-0.1)

BDL(DL-0.1)

BDL(DL-0.1)

5.0

2.0

0.2

au

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

		ALPL/3107	2023/3-9	B		dated 31/07/20	23			Pag	ge 1 d	of 1
	d To :	APPENDE MOLT	Sampl	e Inward No).	ALPL/2507202	3/MON-1/	24-11&12	2 Anal	ysis Start	_	5/07/2023
	Noamundi 1		Inward	d Date		25/07/2023			Anal	ysis End	3	1/07/2023
(M/s)	TATA Stee	l Limited)	Refere	nce		W.O 47000989	28/062			ort Issue Date		1/07/2023
	nundi, Jhark						20/902			ole Category		Vater
	l Code: 833	217	Refere	nce Date	41	22.03.2022			Sam	one Category	,	valei
Sam	ple Name	Sam	ple Sour	ce		Sample Par	ticulars		Sampl	e Condition	Qu	antity Received
Sewa	ige Water	New Town Inle	Ship STF t & Outle		1	Sample Code-W	/W-11 & 1	12	Sealed &	Ice Preserved	5.	0 Ltr & 250 ml
	San	ple Collected	By		5	Sampling Date	Sa	ampling	Time	Sami	oling	Location
	Anad	con Representa	ative	A FINAL M								p STP 50 KLD
de Sala	20057005					21/07/2023	11.5	50 am to 4	.20 pm			Outlet
		Sale Land	in the second		No.	TEST RESU	LTS	a sugar	A section	1		
S.N.	Te	st Parameter		Measurem	ent	Test Meth	ad		dards (In I Surface	1	Fest I	Result
0111		st i arameter		Unit		I est Meth	lou		ater)	Inlet		Outlet
I	Biological Testing 1.Water					and the sta		1	300			
1	Faecal colif	form		MPN/100	ml	IS 1622 : 1	981	2	-	40		21
ш	Chemical Pollution	Testing & Environm	ent			a nesara An			in hait	usat bouers.		
2	Colour	a de la	2010	Hazen uni	ts	IS 3025 (Part 4): 1983	Co	ourless	2		0 (Colourless
3	Odour			C		IS 3025 (Part 5) : 2018		Odourless		Disagreeat	ole	Agreeable
4	Temperatur	e		°C		APHA Met		Shall 1 5°C a receiv	not exceed above the ving water perature	25°C		25°C
5	Free residua	al chlorine		mg/l		IS 3025 (Part 26)	: 1986		1.0	BDL(DL-0.	1)	BDL(DL-0.1)
6	Particulate	size of SS			0	Gravimetric N	12000		pass 850 n IS Sieve	<850		<850
7	Free Ammo	nia (as NH ₃)	Constant of the	mg/l		APHA Met	hod		5	BDL(DL-0	.1)	BDL(DL-0.1
8	Fluoride (as			mg/l		IS 3025 (Part 60):2008		2.0	0.26	,	BDL(DL-0.1
9	Sulphide (a			mg/l		IS 3025 (Part 29			2.0	BDL(DL-0.	03)	BDL(DL-0.03
10	Nitrate Nitr	ogen		mg/l		APHA Meth			10	4.3		BDL(DL-2)
11	Bio Assay 7			%		APHA 22nd I		fish aft	Survival of er 96 hours % effluent	s 84%		94%
12		Chromium (as		mg/l		IS 3025 (Part 52	2):2003		0.1	BDL(DL-0.	.1)	BDL(DL-0.1)
13	Dissolved P	hosphate (as F	P)	mg/l		IS 3025 (Part 31			5.0	BDL(DL-0		BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Shehal Raut Deputy Technical Manager

Authorized Signatories

Pooja Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager



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-- End of Report--





TC 5458

Test Report

ULR No TC545 Test Report No.			dated 31/07/20	23		Page 1 of 2			
Issued To :	• ALI LIJIVI.	Sample Inward No		3/MON-1/24-15&10	5 Analysi		25/07/2023		
M/s Noamundi		Inward Date	25/07/2023		Analysi	s End	31/07/2023		
(M/s TATA Stee		Reference	W.O 47000989		Issue Date	31/07/2023			
Noamundi, Jhark Postal Code: 833		Reference Date	22.03.2022	Sample	Category	Water			
Sample Name	Sam	ple Source	Sample Par	Sample (Condition	Quantity Received			
Sewage Water		mp STP 50 KLD t & Outlet	Sample Code-WW-15 & 16		Sealed & Ic	e Preserved	5.0 Ltr & 250 ml		
San	Sample Collected By			Sampling Date Sampling Tir			pling Location		
Ana	Anacon Representative			11.50 am to 4	1.20 pm	Central Camp STP 50 KLD Inlet & Outlet			

TEST RESULTS

CN	T (D)	Measurement	The AM (I all	Standards (In	Test Result		
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
T	Chemical Testing				a. The second second		
1	Pollution & Environment						
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.92 at 25°C	7.13 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17) : 1984	100	87	46	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	18.2	12.7	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	23.6	18.2	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	21	12	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	68	34	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut Deputy Technical Manager Authorized Signatory

in

Dr. (Mrs.) S. D. Garway Quality Manager

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TC 5458

ULR No.- TC545823000002079F

Test Report No.	: ALPL/3107	2023/3-11A	dated 31/07/20)23		Page 2 of 2			
(M/s TATA Stee Noamundi, Jhark	I/s Noamundi Iron MineInward DateM/s TATA Steel Limited)Inward DateIoamundi, JharkhandReferenceOstal Code: 833217Reference Date		 ALPL/2507202 25/07/2023 W.O 4700098 22.03.2022 	Analys Report	is Start	25/07/2023 31/07/2023 31/07/2023 Water			
Sample Name Sewage Water	ame Sample Source				CHANNEL STORE	Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml		
Sample Collected By Anacon Representative		Sampling Date 21/07/2023	11.50 am to 4.20 pm Central			L pling Location Camp STP 50 KLD let & Outlet			
			TEST RESI	ILTS		<u> </u>			

Test Report

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land	Test	Result
1 <u>.</u>		Unit	i est Miethou	Surface Water)	Inlet	Outlet
П	Chemical Testing 2. Residues In Water					
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	0.52	0.22
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-3) BDL(DL-0.1)
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.1) BDL(DL-0.01)
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.01)	BDL(DL-0.1)
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1) BDL(DL-0.1)
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.03) BDL(DL-0.1)
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1) BDL(DL-0.1)
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1) BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1) BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

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						Test Repo	<u>rt</u>					
Test	Report No.	: ALPL/31072	2023/3-1	1B		dated 31/07/20	023			Page 1 of 1		
	ed To :		Sample	e Inward No).	ALPL/2507202	3/MON-1/	24-15&16	Analys	is Start	2	5/07/2023
	Noamundi		Inward	l Date		25/07/2023			Analys	is End	3	1/07/2023
	TATA Stee		Refere	nce		W.O 4700098	28/962			Issue Date		1/07/2023
	nundi, Jharl		Defense	nes Data			201702			e Category		Vater
Posta	1 Code: 833	3217	Keiere	nce Date	122	22.03.2022			Sumpr	category		, ator
Sam	ple Name	Samj	ole Sour	ce		Sample Par	mple Particulars			Condition	Qu	antity Received
Sewa	ige Water	Central Can Inlet	mp STP : & Outle			Sample Code-W	/W-15 & 2	16	Sealed & I	ce Preserved	5.	0 Ltr & 250 ml
	Sar	nple Collected	By		S	ampling Date	S	ampling Ti	me	Sam	oling	Location
	Ana	con Representa	ative	n Break and							0	STP 50 KLD
	123.5972.1	post of the state	4000	STALLS:		21/07/2023	11.5	50 am to 4.2	0 pm			Outlet
	12. 54		Francis	a survey and	415	TEST RESU	JLTS			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
S.N.	Te	st Parameter		Measurem	ent	Test Meth	hou		rds (In Surface	r sources	^r est I	Result
			1.0.11	Unit				Wa		Inlet		Outlet
Ι	I Biological Testing 1.Water		a she she									
1	Faecal coli	form		MPN/100 1	ml	IS 1622 : 1	981	200	-	41		21
п	Chemical Pollution	Testing & Environme	ent	nition de la s		19450 (1941)			- or the	atrostan		
2	Colour		12.2.5	Hazen uni	ts	IS 3025 (Part 4): 1983	Color	irless	2		0 (Colourless)
3	Odour	La Maria	man	-	0.75	IS 3025 (Part 5) : 2018		Odourless		Disagreeab	le	Agreeable
4	Temperatu	re	Marent	°C	APHA Method		hod	5°C ab receivin	Shall not exceed 5°C above the receiving water temperature			25°C
5	Free residu	al chlorine	100	mg/l	-	IS 3025 (Part 26):1986	1.0		BDL(DL-0.	1)	BDL(DL-0.1)
6	Particulate		191		0	Gravimetric N	lethod	Shall p micron		<850		<850
7		onia (as NH ₃)		mg/l		APHA Met	hod	4		BDL(DL-0.	.1)	BDL(DL-0.1)
8	Fluoride (a			mg/l		IS 3025 (Part 60	0):2008	2.	0	0.17	-	BDL(DL-0.1)
9	Sulphide (a			mg/l		IS 3025 (Part 29):1986	2.	0	BDL(DL-0.0	03)	BDL(DL-0.03)
10	Nitrate Nitr	rogen		mg/l		APHA Met	nod	1	0	3.16		BDL(DL-2)
11	Bio Assay		à	%		APHA 22nd I		90% Sun fish after in 100%	96 hours	82%		94%
12		Chromium (as		mg/l		IS 3025 (Part 5	2):2003	0.	1	BDL(DL-0.	1)	BDL(DL-0.1)
13	Dissolved I	Phosphate (as F)	mg/l		IS 3025 (Part 31		5.	0	BDL(DL-0.		BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Snehal-Raut

Deputy Technical Manager

Authorized Signatories

Pooja Katharle Technical Manager

10

Dr. (Mrs.) S.D. Garway Quality Manager



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





TC 5458

Test Report

ULR No.- TC545823000002079F

Test Report No.	: ALPL/31072	2023/3-10A	dated 31/07/20		Page 1 of 2			
Issued To :		Sample Inward No	. ALPL/2507202	3/MON-1/24-13&1	4 Analysi	s Start	25/07/2023	
M/s Noamundi		Inward Date	25/07/2023		Analysi	s End	31/07/2023	
(M/s TATA Stee Noamundi, Jhark		Reference				Issue Date	31/07/2023	
	ostal Code: 833217 Reference Date				Sample	Category	Water	
Sample Name	Bottom Bin FTP 10 KLD Inlet		Sample Par	Sample (Condition	Quantity Received		
Sewage Water			Sample Code-W	Sealed & Io	e Preserved	5.0 Ltr & 250 ml		
Sar	Sample Collected By Anacon Representative			Sampling DateSampling Time21/07/202311.50 am to 4.20 pmBotton			oling Location	
Ana							ETP 10 KLD Inlet & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In	Test F	Result
0.14.		Unit	Test Method	Land Surface Water)	Inlet	Outlet
I	Chemical Testing Pollution & Environment		0	V.		
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.52 at 25°C	6.83 at 25°C
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	84	32
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	21.92	16.18
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	17.38	14.94
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	16
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	78	43
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)

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Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory Damp

Dr. (Mrs.) S. D. Garway Quality Manager

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TC 5458

ULR No.- TC545823000002079F

Test Report No.	: ALPL/3107	2023/3-10A	dated 31/07/202	23		Pa	ge 2 of 2
(M/s TATA Stee Noamundi, Jharl	Issued To : Sample Inward I M/s Noamundi Iron Mine Inward Date (M/s TATA Steel Limited) Inward Date Noamundi, Jharkhand Reference Postal Code: 833217 Reference Date Sample Name Sample Source Sewage Water Bottom Bin ETP 10 KLD Inlet		ALPL/25072023 25/07/2023 W.O 47000989 22.03.2022	/MON-1/24-13&1 28/962	Analy: Repor	sis Start sis End t Issue Date e Category	25/07/2023 31/07/2023 31/07/2023 Water
Sample Name			Sample Particulars Sample Code-WW-13 & 14		Sample	Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative		Sampling Date 21/07/2023	Sampling 11.50 am to			pling Location ETP 10 KLD Inlet & Outlet	
			TEST RESU	LTS			
				SI	andards	m	

Test Report

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land	Test	Result
		Unit	i est Miethod	Surface Water)	Inlet	Outlet
П	Chemical Testing 2. Residues In Water		A Contractory		Charles and the second	
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	0.67	0.27
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0,1)
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.01)	BDL(DL-0.01) BDL(DL-0.1)
15	Selenium (as Se)	mg/l	IS : 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1) BDL(DL-0.1)
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS : 3025 (Part 37) : 2022	0.2	BDL(DL-0.05)	BDL(DL-0.1)
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.03) BDL(DL-0.1)	BDL(DL-0.05)
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0		BDL(DL-0.1)
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019		BDL(DL-0.1)	BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019 IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
		ing/i	13 5025 (Fart 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)

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

Verified By

Mangesh Fande

Mangesh Fande Technical Manager

----End of Report----

Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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						Test Repo	<u>rt</u>					
		ALPL/31072				dated 31/07/20				Pag	e 1 c	of 1
	d To :		Sampl	e Inward N	0.	ALPL/2507202	3/MON-1/	24-13&14	Analys	is Start	2	5/07/2023
	Noamundi I		Inward	d Date	25/07/2023			Analys	is End	3	1/07/2023	
	TATA Steel		Refere	nce		W.O 4700098	928/962		-	Issue Date		1/07/2023
	undi, Jhark									e Category		Vater
Posta	l Code: 833	217	Keiere	nce Date		22.03.2022			Sumpro	category		, ator
Sam	ple Name	Sam	ple Sour	ce	12	Sample Par	rticulars		Sample	Condition	Qu	antity Received
Sewa	ige Water	Bottom Bin &	ETP 10 I Outlet	KLD Inlet		Sample Code-V	VW-13 & 1	14	Sealed & I	ce Preserved	5.	0 Ltr & 250 ml
	Sam	ple Collected	By		S	ampling Date	S	ampling T	ime	Samr	oling	Location
	Anac	con Representa	ative									10 KLD Inlet &
	1.1.1.1.1.1.1.1	Carl Markan	12311	and an estimate		21/07/2023	11.5	50 am to 4.	20 pm		Out	
						TEST RESU	JLTS	Sterring and	Contractory of	R	1	
S.N.	Tes	st Parameter		Measuren	ient	Test Meth	iod		ards (In Surface	Г	est I	Result
	a data data	and let i	10.00	Unit					ater)	Inlet		Outlet
I	Biological	Testing 1.Wa	nter						CO :			
1	Faecal colif	òrm	CONTRACTOR OF	MPN/100	ml	IS 1622 : 1	981	\mathbb{Z}^{\times}	-	43	374	27
п	Chemical Pollution	Testing & Environme	ent	47 . K . K . M	5.191			1. S		- Alternation		
2	Colour	Saul Andre	612202	Hazen un	its	IS 3025 (Part 4): 1983	Colo	urless	2		0 (Colourless)
3	Odour		in a down	-	- Calif	IS 3025 (Part 5)			urless	Disagreeab	le	Agreeable
4	Temperatur			°C	10.12	APHA Met	hod	5°C al receivi	ot exceed pove the ng water erature	25°C		25°C
5	Free residua	al chlorine		mg/l		IS 3025 (Part 26): 1986		.0	BDL(DL-0.1	1)	BDL(DL-0.1)
6	Particulate s	size of SS				Gravimetric N			ass 850 IS Sieve	<850	.,	<850
7		nia (as NH ₃)		mg/l		APHA Met	thod		5	BDL(DL-0.	1)	BDL(DL-0.1)
8	Fluoride (as			mg/l		IS 3025 (Part 60	0):2008	2	0	0.38	-	BDL(DL-0.1)
9	Sulphide (as			mg/l	>	IS 3025 (Part 29			0	BDL(DL-0.0	03)	BDL(DL-0.03)
10	Nitrate Nitre	ogen		mg/l		APHA Met	hod		10	5.87		BDL(DL-2)
11	Bio Assay T			%		APHA 22nd I		fish afte	rvival of 96 hours 6 effluent	78%		92%
12		Chromium (as		mg/l		IS 3025 (Part 5)		(.1	BDL(DL-0.	1)	BDL(DL-0.1)
13	Dissolved P	hosphate (as P)	mg/l		IS 3025 (Part 31):1988	5	.0	BDL(DL-0.		BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories Pooja Kathare Technical Manager

a

Dr. (Mrs.) S.D. Garway Quality Manager

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TC 5458

Test Report

ULR No TC545	823000002079	F						
Test Report No.	: ALPL/3107	2023/3-12A	dated 31/07/20)23	Page 1 of	f 2		
Issued To :		Sample Inward No	o. ALPL/25072023/MON-1/24-17&18		Analys	is Start	25/07/2023	
	M/s Noamundi Iron Mine Inward Date		25/07/2023		Analys	is End	31/07/2023	
	M/s TATA Steel Limited) Noamundi, Jharkhand			W.O 4700098928/962			31/07/2023	
	Postal Code: 833217 Reference Date				Sample	Category	Water	
Sample Name	Sam	ple Source	Sample Particulars		Sample (Condition	Quantity Received	
Sewage Water	Sewage Water Hospital ETP 10 KLD Inlet & Outlet		Sample Code-WW-17 & 18		Sealed & Io	e Preserved	5.0 Ltr & 250 ml	
	Sample Collected By			Sampling Date Sampling Ti		Sam	pling Location	
Ana	Anacon Representative			11.50 am to 4	.20 pm		tal ETP 10 KLD let & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
On the	rest i arameter	Unit	I est Method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment					1	
1	pH value		IS 3025 (Part 11) : 2022	5.5 to 9.0	6.72 at 25°C	6.97 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	92	38	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	31	24	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	53	26	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	24	18	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	78	46	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut Deputy Technical Manager Authorized Signatory

Gam

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TC 5458

ULR No - TC545823000002070F

		8230000020791 : ALPL/31072		dated 31/07/20	123			Page 2 of 2
1000 C 1000 C 1000	ed To :		Sample Inward No			-17&18 A	nalysis Start	25/07/2023
M/s]	Noamundi	Iron Mine	Inward Date	25/07/2023			nalysis End	31/07/2023
(M/s	TATA Stee	l Limited)	Reference		W.O 4700098928/962			
Noan	nundi, Jhark	hand			928/962	And the second se	eport Issue Date	31/07/2023
Posta	l Code: 833	217	Reference Date	22.03.2022			ample Category	Water
Sam	ple Name		le Source	Sample Pa	rticulars	Sai	nple Condition	Quantity Received
Sewage Water Hospital ETP 10 KLD Inlet & Outlet				Sample Code-V	VW-17 & 18	Seale	d & Ice Preserved	5.0 Ltr & 250 ml
	San	nple Collected	By	Sampling Date	Sam	pling Time	Sam	pling Location
	Ana	con Representa	tive	21/07/2023	11.50	am to 4.20 pm	Hosp	ital ETP 10 KLD nlet & Outlet
Troff				TEST RESU	JLTS		~	
S.N.	Test	Parameter	Measurement	Test Metho	Test Method (In La		1	est Result
			Unit			Surface Wate	r) Inlet	Outlet
П	Chemical 7 2. Residue	Festing s In Water						
10	Iron (as Fe)		mg/l	IS 3025 (Part 2) : 2019 3.0		3.0	1.19	0.47
11	Copper (as		mg/l	IS 3025 (Part 2)	: 2019	3.0	BDL(DL-5	
12	Manganese	(as Mn)	mg/l	IS 3025 (Part 2)	: 2019	2.0	BDL(DL-0.	
13	Mercury (a		mg/l	IS : 3025 (Part 48)):1994	0.01	BDL(DL-0.0	/
14	Cadmium (mg/l	IS: 3025 (Part 41)):1992	2.0	BDL(DL-0.1	
15	Selenium (a		mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1	· · · · · · · · · · · · · · · · ·
16	Lead (as Ph		mg/l	IS 3025 (Part 47)	: 2003	0.1	BDL(DL-0.1	
10.0	17 Arsenic (as As) mg/l			IS : 3025 (Part 37)	: 2022	0.2	BDL(DL-0.0	5) BDL(DL-0.05)
18	Nickel (as 1		mg/l	IS 3025 (Part 2)	: 2019	3.0	BDL(DL-0.1	
	19 Zinc (as Zn) mg/l			IS 3025 (Part 2)		5.0	BDL(DL-0.	I) BDL(DL-0.1)
20	Total Chron		mg/l	IS 3025 (Part 2) :		2.0	BDL(DL-0.1) BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) :	2019	0.2	BDL(DL-0.1) BDL(DL-0.1)

Test Report

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Verified By

Mangesh Fande Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway 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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Test Report

Test I	Report No. :	ALPL/3107	2023/3-1	2B		dated 31/07/20	23				Page 1 of	1
	d To :		Sampl	e Inward No		ALPL/25072023	B/MON-1/2	24-17&18	Analysi	s Start	25/07/2023	18
M/s N	Noamundi l	Iron Mine	Inward	1 Date	25/07/2023 Analysi						31/07/2023	
(M/s '	TATA Steel	l Limited)	Refere							Issue Date	31/07/2023	
Noam	undi, Jhark	hand					20/902			Category	Water	
Posta	l Code: 833	217	Refere	nce Date	22.03.2022 Samj			Sample	Category	water	2	
Sam	ple Name	Sam	ple Sour	ce		Sample Par	ticulars		Sample G	Condition	Quantity Recei	ved
Sewa	Sewage Water Hospital ETP 10 KLD Inlet & Outlet					Sample Code-W	/W-17 & 1	8	Sealed & Ic	e Preserved	5.0 Ltr & 250 i	ml
	Sample Collected By					ampling Date	Sa	mpling	Time	Sampl	ng Location	
	Anacon Representative					21/07/2023	11.5	0 am to 4	.20 pm	Hospital	ETP 10 KLD & Outlet	
	and tool and one open and the					TEST RESU	JLTS	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
S.N.	Te	st Parameter		Measurem	ent	Test Meth			dards (In	Te	st Result	
5.11.	. Test Parameter Unit			Unit		I est Mieth	lou		l Surface /ater)	Inlet	Outlet	:
I	Biological	Testing 1.W	ater						0			
1	Faecal colif	form		MPN/100 1	ml	IS 1622 : 1	981		4	48	26	1
п	Chemical Pollution	Testing & Environm	ent	atur Sala								
2	Colour			Hazen uni	nits IS 3025 (Part 4) : 1983		Co	lourless	2	0 (Colouri	lece	
3	Odour			-		IS 3025 (Part 5) : 2018		Odourless		Disagreeable		
4	Temperatur		3.51.291	°C		APHA Met		Shall 5°C receiv	not exceed above the ving water perature	25°C	25°C	ne
5	Free residu	al chlorine		mg/l		IS 3025 (Part 26):1986		1.0	BDL(DL-0.1)	BDL(DL-0).1)
6	Particulate		Pania		-	Gravimetric N	Aethod		pass 850 n IS Sieve	<850	<850	
7	Free Ammo	onia (as NH ₃)	Le capacita	mg/l		APHA Me	thod		5	BDL(DL-0.1) BDL(DL-	0.1
8	Fluoride (as			mg/l		IS 3025 (Part 6	0):2008	0.0105	2.0	0.21	BDL(DL-	-
9	Sulphide (a			mg/l		IS 3025 (Part 29			2.0	BDL(DL-0.0.		
10	Nitrate Nitr	ogen		mg/1		APHA Met	the second s		10	6.53	BDL(DL-0	
11	Bio Assay Test		%		APHA 22nd I		fish aft	Survival of er 96 hours % effluent	72%	92%	4)	
12		Chromium (a		mg/l		IS 3025 (Part 5	2):2003		0.1	BDL(DL-0.1) BDL(DL-(01)
13	Dissolved F	Phosphate (as]	P)	mg/1	17	IS 3025 (Part 31			5.0	BDL(DL-0.1		

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Verified By

Mangesh Fande Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

CALLEORATORIS

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







Test Report

ULR No.- TC545823000002497F

Test Report No.	: ALPL/3108	2023/3-9A	dated 31/08/202	23		Pa	ge 1 of 2
(M/s TATA Stee Noamundi, Jhar	M/s Noamundi Iron Mine M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217 Reference Date		ALPL/24082023/ 24/08/2023 W.O 470009892 22.03.2022	Analy Analy Repor Sampl	24/08/2023 31/08/2023 31/08/2023 Water		
Sample Name Sewage Water	New Town Ship STP 50 KLD		Sample Particulars Sample Code-WW-11 & 12			Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml
	Sample Collected By Anacon Representative			Sampling 7 11.40am to 5		New Tow	pling Location n Ship STP 50 KLD let & Outlet

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
		Unit	rest method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment				a.	Concy Cas	
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.72 at 25°C	6.94 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	82	34	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	16.24	14.28	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	21.59	18.73	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	18	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	76	52	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)		IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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----End of Report----

Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

jam-Dr. (Mrs.) S. D. Garway

Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab





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Test Report

					Page 2 of 2			
	No. ALPL/24082023	ALPL/24082023/MON-2/60-11&12			24/08/2023			
(s TATA Steel Limited)		24/08/2023			31/08/2023			
() Reference	W.O 47000989	W.O 4700098928/962 22.03.2022			31/08/2023			
Reference Date	22.03.2022				Water Quantity Received			
Sample Name Sample Source Sewage Water New Town Ship STP 50 KLD		Sample Particulars						
Inlet & Outlet	Sample Code-W	W-11 & 12	Sealed & Ic	e Preserved	5.0 Ltr & 250 ml			
	Sampling Date	Sampling 7	Гіт <mark>е</mark>	Sam	pling Location			
esentative	18/08/2023	18/08/2023 11.40am to 5.1		New Town	n Ship STP 50 KLD			
	ine d) Inward Date Reference Reference Date Sample Source own Ship STP 50 KLD	Sample Inward No.ALPL/24082023Inward Date24/08/2023ReferenceW.O 47000989Reference Date22.03.2022Sample SourceSample PartTown Ship STP 50 KLDSample Code-WInlet & OutletSampling Date	Sample Inward No. ALPL/24082023/MON-2/60-11&12 Inward Date 24/08/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 Sample Source Sample Particulars Town Ship STP 50 KLD Sample Code-WW-11 & 12 Inlet & Outlet Sampling Date Sampling T	Sample Inward No. ALPL/24082023/MON-2/60-11&12 Analysi Inward Date 24/08/2023 Analysi Reference W.O 4700098928/962 Report Reference Date 22.03.2022 Sample Source Sown Ship STP 50 KLD Sample Code-WW-11 & 12 Sealed & Ic Inlet & Outlet Sampling Date Sampling Time	Sample Inward No. ALPL/24082023/MON-2/60-11&12 Analysis Start Inward Date 24/08/2023 Analysis End Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Category Sample Source Sample Particulars Sample Condition Town Ship STP 50 KLD Sample Code-WW-11 & 12 Sealed & Ice Preserved Intet & Outlet Sampling Date Sampling Time Sampling Time			

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land	Test Result		
0	rest rurameter	Unit	Test Method	Surface Water)	Inlet	Outlet	
п	Chemical Testing 2. Residues In Water						
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	0.59	0.19	
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)	
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0,1)	BDL(DL-0.1)	
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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

Verified By

esh Fande

Technical Manager

----End of Report----

Authorized Signatory

1au

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

		:ALPL/3108				dated 31/08/20				Page		
Issue	d To :		Sampl	e Inward No.	10	ALPL/24082023	/MON-2/6	50-11&12	Analysi	s Start	24	//08/2023
M/s N	loamundi	Iron Mine	Inwar	d Date		24/08/2023			Analysi	s End	31	/08/2023
	TATA Stee		Refere	nce		W.O 47000989	28/962		Report	Issue Date	31	/08/2023
	undi, Jhark					NUMBER STRUCTURES				Category	W	ater
Posta	l Code: 833	3217	Refere	nce Date		22.03.2022			oumpre cutegory			
Sam	ple Name	Sam	ple Sour	ce		Sample Par	ticulars		Sample (Condition	Qua	ntity Received
Sewa	ge Water	New Town Inle	Ship STI et & Outle			Sample Code-W	W-11 & 1	2	Sealed & Ic	e Preserved	5.0) Ltr & 250 ml
	Sar	nple Collected	d By		S	ampling Date	Sa	mpling Ti	me	Samp	ling	Location
								OSTP 50 KLD Outlet				
						TEST RESU	LTS		0			
S.N.	Test Parameter			Measureme	nt	Test Meth	ad		urds (In Surface	Т	est R	esult
5.N.	Test Parameter Unit		Unit	I est Method L		and by the second	iter)	Inlet		Outlet		
I	Biological	Testing 1.W	ater				-	0	Seal .			
1	Faecal coli	iform		MPN/100 n	nl	IS 1622 : 1	981	60		40		26
п	Chemical Pollution	Testing & Environm	ient				1	LY.				
2	Colour			Hazen unit	ts IS 3025 (Part 4) : 1983		Colo	urless	2		0 (Colourless)	
3	Odour			-		IS 3025 (Part 5)	: 2018	Odourless		Disagreeabl	e	Agreeable
4	Temperatu	ire		°C		APHA Method		5°C al receivi	ot exceed ove the ng water crature	25ºC		25°C
5	Free residu	ual chlorine	_	mg/l		IS 3025 (Part 26)):1986	1,	0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate	size of SS		1	N. Salar	Gravimetric N	lethod		ass 850 IS Sieve	<850		<850
7	Free Amm	onia (as NH3)		mg/l	-31	APHA Met	hod		5	BDL(DL-0.	1)	BDL(DL-0.1)
8	Fluoride (a	ns F)		mg/l		IS 3025 (Part 60		2	0	0.42		BDL(DL-0.1)
9	Sulphide (mg/l		IS 3025 (Part 29		12	.0	BDL(DL-0.0)3)	BDL(DL-0.03)
10	Nitrate Nit	rogen	-	mg/l		APHA Meth	nod		0	5.6		BDL(DL-2)
11		Bio Assay Test		%		APHA 22nd I	Edition	fish after	rvival of 96 hours effluent	86%		92%
12	Hexavalen	t Chromium (a	as Cr^{+6})	mg/l		IS 3025 (Part 52) : 2003		2): 2003 0.1		BDL(DL-0.0	1)	BDL(DL-0.01
13		Phosphate (as		mg/l		IS 3025 (Part 31):1988	5	.0	BDL(DL-0.	1)	BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Shehal Raut

Deputy Technical Manager

Pooja Kathane Technical Manager

Authorized Signatories au

Dr. (Mrs.) S.D. Garway Quality Manager

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



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Test Report

ULR No.- TC545823000002497F

Test Report No.	ALPL/3108	2023/3-11A	dated 31/08/202	13		Pag	ge 1 of 2	
Issued To :		Sample Inward No.	ALPL/24082023/	MON-2/60-15&16	Analys	is Start	24/08/2023	
M/s Noamundi l		Inward Date	24/08/2023	Analys	is End	31/08/2023		
Joamundi, Jharkhand		Reference Reference Date	W.O 4700098928/962 22.03.2022		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Issue Date Category	31/08/2023 Water	
Sample Name Sewage Water	Sample Name Sample Source		Sample Part Sample Code-W		1.40	Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative		Sampling Date 18/08/2023	•••		Central C	pling Location Camp STP 50 KLD alet & Outlet		

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
5.14.	restratameter	Unit	Test Method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment			1	-		
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.87 at 25°C	6.98 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	86	52	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	17.24	16.48	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	26.58	21.93	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	24	16	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	72	48	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

Test Report No.	ALPL/3108	2023/3-11A	dated 31/08/202	3		Page 2 of 2	
Issued To :		Sample Inward No.	ALPL/24082023/MON-2/60-15&16		Analysi	s Start	24/08/2023
M/s Noamundi l	Iron Mine	Inward Date	24/08/2023		Analysi	s End	31/08/2023
A second s	A/s TATA Steel Limited) oamundi, Jharkhand		W.O 4700098928/962		Report Issue Date Sample Category		31/08/2023 Water
and a state of the second s	Postal Code: 833217 Reference Date		22.03.2022	Sample	Category	Water	
Sample Name Sewage Water	Sample Name Sample Source		Sample Parti Sample Code-WV		20-0	Condition	Quantity Received 5.0 Ltr & 250 ml
Sample Collected By Anacon Representative		Sampling Date Sampling Tim 18/08/2023 11.40am to 5.10			Central C	pling Location Camp STP 50 KLD hlet & Outlet	

TEST RESULTS

		Measurement		Standards (In Land	Test Result	
S.N.	Test Parameter	Unit	Test Method	Surface Water)	Inlet	Outlet
II	Chemical Testing 2. Residues In Water					
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	1.19	1.06
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	. BDL(DL-0.1)	BDL(DL-0.1)
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)

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'. • BDL-Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent'. REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By

Margesh Fande

Technical Manager

----End of Report----

Authorized Signatory yan

Dr. (Mrs.) S.D. Garway Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab P 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

Test Report

	Report No. : A d To :	LPL/3108		IB e Inward No.	dated 31/08/20 ALPL/24082023		0-15&16	Analysi	Page 1 of 1	24/08/2023
	u 10 : Joamundi Irc	n Mino				5/101014-2/0	0-15010			
	TATA Steel L		Inwar	l Date	24/08/2023			Analysi		31/08/2023
	undi, Jharkha		Refere	nce	W.O 47000989	928/962		1000 C 1000 C 1000 C 1000 C	Issue Date	31/08/2023
	l Code: 83321		Refere	nce Date	22.03.2022			Sample Category		Water
Sam	ole Name	Sam	ple Sour	ce	Sample Particulars			Sample (Condition	Quantity Received
Sewa	ge Water	Central Ca Inle	mp STP t & Outle		Sample Code-W	VW-15 & 1	6	Sealed & Io	e Preserved	5.0 Ltr & 250 ml
	Samp	le Collected	By		Sampling Date	Sa	mpling Ti	me	Sampli	ng Location
		n Represent			18/08/2023	11.4	Central Central			np STP 50 KLD & Outlet
					TEST RESU	JLTS		6		. ce ouner
	Test Deremeter Measuren			Measuremen	t	1 11		ards (In	Te	st Result
S.N.	Test Parameter Ur		Unit	Test Method L		1.0000000000000000000000000000000000000	Surface ater)	Inlet	Outlet	
I	Biological Te	esting 1.W	ater				0	Sal .		
1	Faecal colifor	m	*	MPN/100 m	IS 1622 : 1	981	6		43	21
п	Chemical Te Pollution &	-	ent		3	-				1
2	Colour			Hazen units	ts IS 3025 (Part 4) : 1983		Colo	urless	2	0 (Colourless
3	Odour			-	IS 3025 (Part 5):2018	Odourless		Disagreeable	Agreeable
4	Temperature			°C	APHA Method		Shall not exceed 5°C above the receiving water temperature		25ºC	25ºC
5	Free residual	chlorine		mg/l	IS 3025 (Part 26): 1986	1.	.0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate siz	ze of SS		5	Gravimetric N	Method		ass 850 IS Sieve	<850	<850
7	Free Ammoni	ia (as NH ₃)		mg/l	APHA Me	thod		5	BDL(DL-0.1) BDL(DL-0.1
8	Fluoride (as F			mg/l	IS 3025 (Part 6	0):2008	2	2.0	0.31	BDL(DL-0.1
9	Sulphide (as \$			mg/l	IS 3025 (Part 29	and the second second second second		0	BDL(DL-0.03	
10	Nitrate Nitrog		-	mg/l	APHA Met			10	4.57	BDL(DL-2)
11			%	APHA 22nd	Edition	fish after	rvival of 96 hours 6 effluent	84%	92%	
12	Hexavalent C	hromium (a	r^{+6}	mg/l	IS 3025 (Part 5	52):2003).1	BDL(DL-0.01) BDL(DL-0.01
13	Dissolved Phe			mg/l	IS 3025 (Part 3	1):1988	5	5.0	BDL(DL-0.1	

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Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories Pooja Kathane Technical Manager

a

Dr. (Mrs.) S.D. Garway Quality Manager

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



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Test Report

ULR No.- TC545823000002497F

Test Report No.	: ALPL/3108	2023/3-10A	dated 31/08/202	23		Page 1 of 2		
Issued To :		Sample Inward No.	ALPL/24082023/	MON-2/60-13&14	Analys	is Start	24/08/2023	
M/s Noamundi	and a second	Inward Date	24/08/2023	Analys	is End	31/08/2023		
	A/s TATA Steel Limited) Reference oamundi, Jharkhand Reference Date ostal Code: 833217 Reference Date		W.O 4700098928/962			Issue Date	31/08/2023	
and a second s			22.03.2022	Sampl	e Category	Water		
Sample Name		ple Source	Sample Particulars		Sample	Condition	Quantity Received	
Sewage Water	Sewage Water Bottom Bin ETP 10 KLD Inlet & Outlet		Sample Code-WW-13 & 14		Sealed & I	ce Preserved	5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative			Sampling Date				pling Location ETP 10 KLD Inlet &	
			10/00/2025 11.40am to 5.1		opin		Outlet	

TEST RESULTS

C N	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
S.N.	l est Parameter	Unit	i est Method	Water)	Inlet	Outlet	
1	Chemical Testing Pollution & Environment		0				
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.82 at 25°C	7.13 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17) : 1984	100	92	46	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	26.57	21.52	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	38.16	24.93	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	28	21	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	81	64	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

Test Report No.	: ALPL/3108	2023/3-10A	dated 31/08/202	3		Pag	ge 2 of 2	
Issued To :		Sample Inward No.	ALPL/24082023/	MON-2/60-13&14	Analys	is Start	24/08/2023	
M/s Noamundi		Inward Date	24/08/2023		Analys	is End	31/08/2023	
Noamundi, Jharl	M/s TATA Steel Limited) Joamundi, Jharkhand Postal Code: 833217 Re		W.O 4700098928/962 22.03.2022		Statistics and the state	t Issue Date e Category	31/08/2023 Water	
Sample Name Sewage Water	Sample Name Sample Source		Sample Particulars Sample Code-WW-13 & 14 S			Condition	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative		Sampling Date Sampling Tir 18/08/2023 11.40am to 5.10				pling Location ETP 10 KLD Inlet & Outlet		

TEST RESULTS

		Measurement		Standards (In Land	Test Result		
S.N.	Test Parameter	Unit	Test Method	Surface Water)	Inlet	Outlet	
п	Chemical Testing 2. Residues In Water						
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	2.88	0.37	
11	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-5)	BDL(DL-5)	
12	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l -	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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

Verified By

Mangesh Fande Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Issued		ALPL/31082	Sample	Inward No.		dated 31/08/20 ALPL/24082023		0-13&14	Analysi	Page s Start		/08/2023
	l 10 . Ioamundi I	ron Mine				24/08/2023			Analysi		31	/08/2023
	TATA Steel		Inward	25.42.2.2								and the second
	undi, Jharkl	215	Referen	ce		W.O 47000989	28/962			Issue Date		/08/2023 ater
	Code: 8332		Referen	ce Date	1	22.03.2022			Sample	Category	w	ater
Samp	ole Name	Sam	ple Source	2		Sample Par	ticulars		Sample C	Condition	Qua	ntity Received
Sewa	ge Water	Bottom Bin &	ETP 10 Kl c Outlet	LD Inlet		Sample Code-W	W-13 & 1	4	Sealed & Ic	e Preserved	5.0	Ltr & 250 ml
	Sam	ple Collected	l By	-	Sar	npling Date	Sa	mpling T	ime	Sampl	ing l	Location
		on Represent	100		1	8/08/2023	11.4	0am to 5.				0 KLD Inlet &
_					216.5	TEST RESU	ULTS		A	2		
	Measurem						2		ards (In	Те	est R	esult
S.N.	Test Parameter		Unit	Test Method I		A CONTRACTOR OF	Surface ater)	Inlet		Outlet		
I	Biological	Testing 1.W	ater					C	Sand?			
1	Faecal colif	îorm -		MPN/100 n	nl	IS 1622 : 1	981	Se?	<u>.</u> .	34		17
п	Chemical Pollution	Testing & Environm	ient				-	L.		37		
2	Colour			Hazen unit	IS	IS 3025 (Part 4):1983	Col	ourless	2		0 (Colourless)
3	Odour			-		IS 3025 (Part 5):2018	Odourless		Disagreeabl	e	Agreeable
4	Temperatur	-e		°C		APHA Method		5°C a receiv	ot exceed bove the . ing water erature	25ºC		25°C
5	Free residua	al chlorine		mg/l		IS 3025 (Part 26): 1986	1	.0	BDL(DL-0.1)	BDL(DL-0.1)
6	Particulate			-	1000	Gravimetric M	Method		pass 850 IS Sieve	<850		<850
7	Free Ammo	onia (as NH ₃)	-	mg/l	- 01	APHA Me	thod		5	BDL(DL-0.1	1)	BDL(DL-0.1)
8	Fluoride (a			mg/l		IS 3025 (Part 6	0):2008		2.0	0.41		BDL(DL-0.1)
9	Sulphide (a	is S)		mg/l		IS 3025 (Part 29	9):1986		2.0	BDL(DL-0.0	3)	BDL(DL-0.03)
10	Nitrate Nitr		in.	mg/l		APHA Met			10	5.29		BDL(DL-2)
11			and the		APHA 22nd	Edition	fish afte	urvival of er 96 hours % effluent	72%		92%	
12	Hexavalent	Chromium (a	as Cr^{+6})	mg/l		IS 3025 (Part 5	(2):2003		0.1	BDL(DL-0.0	1)	BDL(DL-0.01)
13		Phosphate (as		mg/l		IS 3025 (Part 3			5.0	BDL(DL-0.	1)	BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories Pooja Kathane Technical Manager

lan Dr. (Mrs.) S.D. Garway

Dr. (Mrs.) S.D. Garwa Quality Manager

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

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Test Report

ULR No.- TC545823000002497F

Test Report No. :	ALPL/3108	2023/3-12A	dated 31/08/202	3			Page 1 of 2	
Issued To :	_	Sample Inward No.	ALPL/24082023/	MON-2/60-17&18	Analys	is Start	24/08/2023	
M/s Noamundi I		Inward Date	24/08/2023		Analys	is End	31/08/2023	
Victoria and a second second second	A/s TATA Steel Limited) Reference oamundi, Jharkhand Reference Date ostal Code: 833217 Reference Date		W.O 4700098928/962			Issue Date	31/08/2023	
and the second se			22.03.2022	Sample	e Category	Water		
Sample Name		ple Source	Sample Particulars		Sample	Condition	Quantity Received	
Sewage Water		ETP 10 KLD	Sample Code-WW-17 & 18		Sealed & Ice Preserved		5.0 Ltr & 250 ml	
Sample Collected By			Sampling Date	Sampling Date Sampling Tim 18/08/2023 11.40am to 5.10			pling Location ital ETP 10 KLD nlet & Outlet	
Anac	Anacon Representative					5.52		

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
5.14.	rest rarameter	Unit	Test Method	Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment					1	
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.93 at 25°C	7.16 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	94	46	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	36	28	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	47	32	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	28	24	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250 .	87	72	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H3OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut Deputy Technical Manager

----End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000002497F

Test Report No. :	ALPL/3108	2023/3-12A	dated 31/08/202	dated 31/08/2023			Page 2 of 2		
Issued To :		Sample Inward, No.	ALPL/24082023/	Analysis	s Start	24/08/2023			
M/s Noamundi In		Inward Date	24/08/2023	Analysis	End	31/08/2023			
(M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217Reference Reference I		Reference Reference Date	W.O 4700098928/962 22.03.2022			lssue Date Category	31/08/2023 Water		
Sample Name Sample Source Sewage Water Hospital ETP 10 KLD Inlet & Outlet Inlet & Outlet			Sample Particulars Sample Code-WW-17 & 18		Sample Condition Sealed & Ice Preserved		Quantity Received 5.0 Ltr & 250 ml		
			Sampling Date Sampling Tir 18/08/2023 11.40am to 5.10		A Law and	Hospi	pling Location tal ETP 10 KLD let & Outlet		

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards	Test Result		
5.N.		Unit	Test Method	(In Land Surface Water)	Inlet	Outlet	
п	Chemical Testing 2. Residues In Water			191			
10	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	3.0	1.41	0.37	
11	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	3.0	BDL(DL-5)	BDL(DL-5)	
12	Manganese (as Mn)	mg/l '	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
13	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
14	Cadmium (as Cd)	mg/l	IS: 3025 (Part'41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
15	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
16	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
17	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
18	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
21	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified By

Mangesh Fande

Technical Manager

Authorized Signatory

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Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

	Report No. : A	LI L/3108			dated 31/08/20			_		el of l	
	Noamundi Iro	n Mina	Conservation and	le Inward No.	ALPL/2408202.	3/MON-2/	60-17&18	Analy	sis Start	24/08/2023	
	TATA Steel Li		Inwar	d Date	24/08/2023		Analy	sis End	31/08/2023		
1000	nundi, Jharkhar		Refer	ence	W.O 47000989	28/962		Repor	t Issue Date	31/08/2023	
	l Code: 833217		Refer	ence Date	22.03.2022				e Category	Water	
Sam	ple Name	Sam	ple Sou	rce	Sample Par	ticulars		Sample	Condition	Quantity Received	
Sewa	Sewage Water Hospital ETP 10 KLD Inlet & Outlet				Sample Code-W	/W-17 &	18		ce Preserved	5.0 Ltr & 250 ml	
	Sample	Collected	By		Sampling Date	S	ampling T	ime	Samp	ing Location	
	Anacon	Represent	ative		18/08/2023		40am to 5.		Hospita	l ETP 10 KLD et & Outlet	
					TEST RESU	LTS		1		a & Outlet	
S.N.	lest Parameter			Measuremen	t Test Meth	od		ards (In Surface	Т	Test Result	
		U		Unit			Water)		Inlet	Outlet	
I	Biological Tes	ting 1.W	ater				8	Se al		hi n	
1	Faecal coliform	Faecal coliform MPN/100 r		MPN/100 m	IS 1622 : 19	981	160		46	22	
п	Chemical Tes Pollution & E		ent			4	24	_			
2	Colour			Hazen units	s IS 3025 (Part 4) : 1983 Colourl		urless	2	0 (Colourless)		
3	Odour			-	IS 3025 (Part 5) : 2018		Odourless		Disagreeable		
4	Temperature			°C	APHA Method		Shall not exceed 5°C above the receiving water temperature		25°C	25°C	
5	Free residual ch	nlorine		mg/l	IS 3025 (Part 26)	: 1986	1.		BDL(DL-0.1)	BDL(DL-0.1)	
6	Particulate size	access in concerning		Q.,	Gravimetric M	lethod		ass 850 IS Sieve	<850	<850	
7	Free Ammonia	(as NH ₃)		mg/l	APHA Met	nod		5	BDL(DL-0.1) BDL(DL-0.1)	
8	Fluoride (as F)			mg/l	IS 3025 (Part 60			.0	0.26	BDL(DL-0.1)	
9	Sulphide (as S)			mg/l	IS 3025 (Part 29)			.0	BDL(DL-0.03		
10	Nitrate Nitroger	1		mg/l	APHA Meth			0	7.14	BDL(DL-0.03) BDL(DL-2)	
11	Bio Assay Test	-AT	S	%	APHA 22nd E		90% Su fish after	rvival of 96 hours effluent	86%	94%	
12	Hexavalent Chr			mg/l	IS 3025 (Part 52				BDL(DL-0.01) BDL(DL-0.01)	
13	Dissolved Phos	phate (as P	1	mg/l	IS 3025 (Part 52) : 2003 0.1 IS 3025 (Part 31) : 1988 5.0			0	BDL(DL-0.1		

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Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories

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Dr. (Mrs.) S.D. Garway Quality Manager

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



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Test Report

ULR No.- TC545823000003000F

Test Report No.	: ALPL/3009	2023/3-20A	dated 30/09/202	dated 30/09/2023				
Issued To :Sample Inward No.M/s Noamundi Iron MineInward Date(M/s TATA Steel Limited)ReferenceNoamundi, JharkhandReference Date		ALPL/25092023 25/09/2023 W.O 47000989 22.03.2022	Analys	Page 1 of 2 sis Start sis End t Issue Date e Category	26/09/2023 30/09/2023 30/09/2023 Water			
Sample Name Sewage Water	New Town	ple Source Ship STP 50 KLD t & Outlet	Sample Particulars Sample Code-WW-11 & 12 S			Condition ce Preserved	Quantity Received 5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative			Sampling Date 22/09/2023			New Tow	pling Location n Ship STP 50 KLD let & Outlet	

TEST RESULTS

S.N.	Test Parameter	Measurement	Test Method	Standards (In Land Surface	Test Result		
		Unit	Unit		Inlet	Outlet	
I	Chemical Testing Pollution & Environment		1				
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.63 at 25°C	6.87 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	76	32	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	18.24	13.91	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	22.86	16.32	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	22.80	16.32	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	72	48	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	48 BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)		IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1) BDL(DL-0.1)	

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Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No.- TC545823000003000F

: ALPL/3009	2023/3-20A	dated 30/09/2023			Page 2 of 2		
	Sample Inward No.	ALPL/25092023/	Analys	is Start	26/09/2023		
Iron Mine	Inward Date	25/09/2023	Analys	is End	30/09/2023		
(M/s TATA Steel Limited) Reference Noamundi, Jharkhand		W.O 4700098928/962 22.03.2022				30/09/2023 Water	
Postal Code: 833217			Sample Particulars		Condition	Quantity Received	
		Sample Code-W	Sealed & I	ce Preserved	5.0 Ltr & 250 ml		
Sample Collected By Anacon Representative			Sampling Time 11.35 am to 4.20 pm		New Tow	Sampling Location New Town Ship STP 50 KLD Inlet & Outlet	
	Iron Mine I Limited) thand 217 Sam New Town Inte nple Collected	Iron Mine Inward Date I Limited) Reference hand Reference Date 217 Sample Source New Town Ship STP 50 KLD Inlet & Outlet nple Collected By Inlet & Inlet	Iron Mine Sample Inward No. ALPL/25092023/ Iron Mine Inward Date 25/09/2023 I Limited) Reference W.O 470009892 hand Reference Date 22.03.2022 Sample Source Sample Part New Town Ship STP 50 KLD Sample Code-W Inlet & Outlet Sample Date	Sample Inward No. ALPL/25092023/MON-2/24-11&12 Iron Mine Inward Date 25/09/2023 Inward Date 25/09/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 Sample Source Sample Particulars New Town Ship STP 50 KLD Inlet & Outlet Sample Code-WW-11 & 12 Inlet Collected By Sampling Date Sampling T	Sample Inward No. ALPL/25092023/MON-2/24-11&12 Analysi Iron Mine Inward Date 25/09/2023 Analysi I Limited) Reference W.O 4700098928/962 Report Sample Source Sample Source Sample Particulars Sample Code-WW-11 & 12 New Town Ship STP 50 KLD Sample Code-WW-11 & 12 Sealed & Id Inlet & Outlet Sampling Date Sampling Time	Sample Inward No. ALPL/25092023/MON-2/24-11&12 Iron Mine I Limited) thand 217 Sample Inward No. ALPL/25092023/MON-2/24-11&12 Sample Collected By Inlet & Outlet Sample Code-WW-11 & 12 Sample Collected By Con Representative Sampling Date Sampling Date Sample Collected By Sampling Date Sampling Date	

TEST RESULTS

		Measurement		Standards (In Land	Test Result		
S.N.	Test Parameter	Unit Test Method		Surface Water)	Inlet	Outlet	
п	Chemical Testing 2. Residues In Water						
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	2.42	1.09	
11	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	· BDL(DL-0.1)	BDL(DL-0.1)	
12	Mercury (as Hg)	mg/l	1S: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
13	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
14	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
15	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
16	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
17	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Total Chromium	mg/l	1S 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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---- End of Report----

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

Verified By

Mangesh Fande

Technical Manager

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

					1 . 1 . 20//	0/2022			D	1 of 1	
		: ALPL/3009			dated 30/0	2 1 H 2 H 4	4 118 12	Analasi		1 of 1 26/09/	2023
	d To :		- C	e Inward No.		ALPL/25092023/MON-2/24-11&12			Analysis Start		
		Iron Mine	Inward	l Date	25/09/2023			Analysi	s End	30/09/	2023
	TATA Stee		Refere	nce	W.O 4700	098928/962			Issue Date	30/09/	2023
	undi, Jhark Code: 833		Refere	nce Date	22.03.2022			Sample	Category	Water	
Sam	Sample Name Sample Source			ce	Sampl	e Particulars		Sample (Condition	Quantit	y Received
Sewa	ge Water	New Town Inle	Ship STP t & Outle		Sample Co	de-WW-11 & 1	2	Sealed & Ic	e Preserved	5.0 Ltr	& 250 ml
	Sar	nple Collected	l By		Sampling Dat	e Sa	mpling Ti	me	Sampl	ing Loca	ation
	Ana	con Represent	ative		22/09/2023	11.3	5 am to 4.2	20 pm	New Town Inle	Ship STI t & Outl	
					TEST R	ESULTS			2		
S.N.	Measure			Measureme	nt Test	Method		ards (In Surface	T	est Resul	t
5.IN.	Test Parameter		Unit				iter)	Inlet		Outlet	
I	Biological	Testing 1.W	ater								
1	Faecal coliform MPN/1		MPN/100 m	nl IS 162	22:1981	2		43		22	
п	Chemical Pollution	Testing & Environm	ient			<	2.V				
2	Colour			Hazen units	s IS 3025 (1	Part 4): 1983	Colo	ourless	2	0 (Colourless
3	Odour			-	IS 3025 (Part 5) : 2018		Odourless		Disagreeabl	e .	Agreeable
4	Copper (as	Cu)		mg/l	IS 3025 (IS 3025 (Part 2) : 2019		3.0) B	DL(DL-5)
5	Temperatu			°C	APHA	APHA Method		ot exceed pove the ng water erature	25ºC		25 ⁰ C
6	Free residu	al chlorine		mg/l	IS 3025 (Pa	urt 26) : 1986	1.	.0	BDL(DL-0.1) BD	L(DL-0.1)
7	Particulate	size of SS			Gravime	tric Method		bass 850 IS Sieve	<850		<850
8	Free Amm	onia (as NH ₃)		mg/l	APH	A Method	and the second se	5	BDL(DL-0.	1) Bl	DL(DL-0.1
9	Fluoride (a			mg/l	IS 3025 (F	art 60) : 2008	2	2.0	0.36		DL(DL-0.1
10	Sulphide (as S)		mg/l	IS 3025 (P	art 29) : 1986		2.0	BDL(DL-0.0	3) BD	L(DL-0.03
11	Nitrate Nit			mg/l	APHA	Method		10	5.2	B	DL(DL-2)
12	Bio Assay		~	%	APHA 2	2nd Edition	90% Survival fish after 96 ho in 100% efflue		84%		92%
13	Hexavalen	t Chromium (a	as Cr^{+6})	mg/l	IS 3025 (I	Part 52): 2003	().1	BDL(DL-0.0	1) BD	L(DL-0.01
14		Phosphate (as		mg/l	IS 3025 (P	art 31): 1988			BDL(DL-0.	1) BI	DL(DL-0.1

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DL- Indicates detection limit of instrument/method and shall be considered as 'absent'. REMARKS : As requested by the client, sample was tested for above parameters only.

Verified By

Mangesh Fande Technical Manager

nehal Raut Deputy Technical Manager

Authorized Signatories Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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



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Test Report

ULR No.- TC545823000003000F

Test Report No.	: ALPL/3009	2023/3-22A	dated 30/09/202	dated 30/09/2023			Page 1 of 2		
Issued To :		Sample Inward No.	ALPL/25092023/	ALPL/25092023/MON-2/24-15&16		s Start	26/09/2023		
M/s Noamundi		Inward Date	25/09/2023	Analysi	s End	30/09/2023			
Noamundi, Jharkhand		Reference Reference Date	W.O 4700098928/962 22.03.2022			Issue Date Category	30/09/2023 Water		
Sample Name Sample Source Sewage Water Central Camp STP 50 KLD Inlet & Outlet Sample Collected By Anacon Representative			Sample Particulars Sample Code-WW-15 & 16		Sample Condition Sealed & Ice Preserved		Quantity Received 5.0 Ltr & 250 ml		
			Sampling Date 22/09/2023			Central (pling Location Camp STP 50 KLD let & Outlet		

TEST RESULTS

CN		Measurement	Tranking	Standards (In	Test Result		
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment		10				
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.82 at 25°C	7.16 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	84	46	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	16.43	13.91	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	23.51	18.74	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	21	16	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	64	47	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Shehal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

30092023/3-22A		23	Page	2 of 2		
Sample Inward No.	ALPL/25092023	/MON-2/24-15&16	Analysis Star	rt	26/09/2023 30/09/2023 30/09/2023	
iniwaru Date	25/09/2023		Analysis End	i		
1) Reference	W.O 47000989	28/962	Report Issue	Date		
Noamundi, Jharkhand Postal Code: 833217 Reference Date		22.03.2022			Water	
Sample Source	Sample Part	Sample Condi	Quantity Received			
al Camp STP 50 KLD Inlet & Outlet	Sample Code-W	Sealed & Ice Pres	5.0 Ltr & 250 ml			
	Sampling Date	Sampling Ti	me	Samp	ling Location	
Anacon Representative		22/09/2023 11.35 am to 4.20			amp STP 50 KLD et & Outlet	
1	ne Sample Inward No. Inward Date Inward Date d) Reference Reference Date Sample Source al Camp STP 50 KLD Inlet & Outlet lected By Interview	Ne Sample Inward No. ALPL/25092023 Inward Date 25/09/2023 Reference W.O 47000989 Reference Date 22.03.2022 Sample Source Sample Part al Camp STP 50 KLD Sample Code-W Inlet & Outlet Sampling Date	Sample Inward No.ALPL/25092023/MON-2/24-15&16Inward Date25/09/2023Inward Date25/09/2023ReferenceW.O 4700098928/962Reference Date22.03.2022Sample SourceSample Particularsal Camp STP 50 KLDSample Code-WW-15 & 16Inlet & OutletSampling DateSampling Ti	Sample Inward No. ALPL/25092023/MON-2/24-15&16 Analysis Sta Inward Date 25/09/2023 Analysis Sta Reference W.O 4700098928/962 Report Issue Reference Date 22.03.2022 Sample Cate Sample Source Sample Particulars Sample Code al Camp STP 50 KLD Sample Code-WW-15 & 16 Sealed & Ice Pre Inlet & Outlet Sampling Date Sampling Time	Sample Inward No. ALPL/25092023/MON-2/24-15&16 Analysis Start Inward Date 25/09/2023 Analysis End Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Category Sample Source Sample Particulars Sample Condition al Camp STP 50 KLD Sample Code-WW-15 & 16 Sealed & Ice Preserved Inlet & Outlet Sampling Date Sampling Time Sample Sected By Sampling Date Sampling Time Central C Central C 22/09/2023 11 35 am to 4 20 pm Central C	

TEST RESULTS

CN	TID	Measurement	surement Test Method		Test Result		
S.N.	Test Parameter	Unit	Init	Inlet	Outlet		
п	Chemical Testing 2. Residues In Water						
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	2.38	0.78	
11	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
12	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
13	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0,1)	
14	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
15	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
16	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
17	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	· BDL(DL-0.1)	BDL(DL-0.1)	

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---- End of Report----

Verified By

Mangesh Fande

Technical Manager

Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test	Report No.	: ALPL/3009	2023/3-2	22B		dated 30/09/20	23			Page 1 of 1		
	d To:			e Inward No.		ALPL/25092023	MON-2/	24-15&16	Analys	is Start	20	5/09/2023
M/s M	Noamundi	Iron Mine	Inwar	d Date		25/09/2023				Analysis End)/09/2023
(M/s	TATA Stee	l Limited)	Refere			W.O 4700098928/962				Report Issue Date)/09/2023
Noan	undi, Jhark	chand					26/902			e Category		ater
Posta	l Code: 833	217	Refere	ence Date		22.03.2022			Jampie	category		ater
Sam	ple Name	Sam	ple Sour	ce		Sample Par	ticulars		Sample	Condition	Qua	antity Received
Sewa	ige Water	Central Ca Inle	ump STP et & Outl			Sample Code-W	W-15 & 1	16	Sealed & I	ce Preserved	5.() Ltr & 250 ml
	San	nple Collected	d By		S	ampling Date	Si	ampling Ti	me	Samp	ling	Location
	Ana	con Represent	ative			22/00/2022	11.2		0	Central Ca	amp	STP 50 KLD
					_	22/09/2023	11.3	5 am to 4.2	20 pm			Outlet
						TEST RESU	LTS			-		
S.N.	Te	st Parameter		Measureme	ent	Test Meth	od		ards (In Surfa <mark>ce</mark>	T	est R	esult
01111	Test Parameter		Unit			2,002,000,002,002	iter)	Inlet		Outlet		
I	Biological	Testing 1.W	ater									
1	Faecal coli	form		MPN/100 r	nl	IS 1622 : 1	981	2		27		17
п	Chemical Pollution	Testing & Environm	ient				<	21				
2	Colour			Hazen unit	s	IS 3025 (Part 4):1983	Colo	urless	2		0 (Colourless
3	Odour					IS 3025 (Part 5	: 2018	Odo	urless	Disagreeabl	e	Agreeable
4	Copper (as	Cu)		mg/l		IS 3025 (Part 2):2019	3	.0	BDL(DL-5)	BDL(DL-5)
5	Temperatu	re		°C		APHA Met	hod	5°C ab receivii	ot exceed ove the ng water erature	25°C		25°C
6	Free residu	al chlorine		mg/l		IS 3025 (Part 26): 1986	1.	0	BDL(DL-0.1)	BDL(DL-0.1)
7	Particulate	size of SS		1		Gravimetric M	lethod		ass 850 IS Sieve	<850		<850
8	Free Amm	onia (as NH ₃)		mg/l		APHA Met	hod		5	BDL(DL-0.1	1)	BDL(DL-0.1
9	Fluoride (a			mg/l		IS 3025 (Part 6): 2008	2	.0	0.27		BDL(DL-0.1
10	Sulphide (a			mg/l		IS 3025 (Part 29):1986	2	.0	BDL(DL-0.0	(3)	BDL(DL-0.03
11	Nitrate Nit	rogen		mg/l		APHA Met	nod		0	3.94		BDL(DL-2)
12	Bio Assay		\$	%		APHA 22nd I	Edition	fish after	rvival of 96 hours effluent	86%		94%
13		t Chromium (a		mg/l		IS 3025 (Part 5			.1	BDL(DL-0.0		BDL(DL-0.01
14	Dissolved l	Phosphate (as	P)	mg/l		IS 3025 (Part 31):1988	5	.0	BDL(DL-0.1	1)	BDL(DL-0.1)

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Verified By

Mangesh Fande Technical Manager

Snehål Raut Deputy Technical Manager

Authorized Signatories Pooja Kathane Technical Manager

Dr. (Mrs.) S.D. Garway

Quality Manager

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



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Test Report

ULR No.- TC545823000003000F

Test Report No.	: ALPL/3009	2023/3-21A	dated 30/09/202	3		Pag	ge 1 of 2
Issued To :		Sample Inward No.	ALPL/25092023/	Analy	sis Start	26/09/2023	
M/s Noamundi	Iron Mine	Inward Date	25/09/2023		Analy	sis End	30/09/2023
(M/s TATA Steel Limited) Noamundi, Jharkhand		Reference	W.O 470009892		t Issue Date	30/09/2023	
Postal Code: 833		Reference Date	22.03.2022		Samp	e Category	Water
Sample Name Sample Source Sewage Water Bottom Bin ETP 10 KLD Inlet & Outlet Sample Collected By Anacon Representative		ETP 10 KLD Inlet	Sample Particulars Sample Code-WW-13 & 14		Sample Condition Sealed & Ice Preserved		Quantity Received 5.0 Ltr & 250 ml
		Sampling Date Sampling Tim 22/09/2023 11.35 am to 4.2				pling Location ETP 10 KLD Inlet & Outlet	

TEST RESULTS

		Measurement		Standards (In	Test Result		
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment						
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.61 at 25°C	6.93 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	86	53	
4	Ammonical Nitrogen (as N)	mg/l	1S 3025 (Part 34) :1988	50	23.37	18.34	
5	Total Kjeldahl Nitrogen (as N)	mg/l	1S 3025 (Part 34) : 1988	100	28.19	21.46	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	16	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	74	48	
8	Cvanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C ₆ H ₅ OH)	-	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Shehal Raut

Deputy Technical Manager

Authorized Signatory

Gan

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

Test Report No.	: ALPL/3009	2023/3-21A	dated 30/09/202	3		Page 2 of 2		
Issued To :		Sample Inward No.	ple Inward No. ALPL/25092023/MON-2/24-13&14		Analys	is Start	26/09/2023	
M/s Noamundi Iron Mine (M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Inward Date	25/09/2023		Analys	is End	30/09/2023	
		Reference	W.O 4700098928/962 22.03.2022			Issue Date	30/09/2023	
		Reference Date				e Category	Water	
Sample Name	Sam	ple Source	Sample Particulars		Sample Condition		Quantity Received	
Sewage Water	Sewage Water Bottom Bin ET & O		Sample Code-WW-13 & 14		Sealed & Ice Preserved		5.0 Ltr & 250 ml	
Sample Collected By Anacon Representative		Sampling Date	Sampling Date Sampling Ti		a second second second	pling Location		
		22/09/2023 11.35 am to 4.2		20 pm Bottom Bir		ETP 10 KLD Inlet & Outlet		

TEST RESULTS

	Test Descentes	Measurement		Standards (In Land	Test Result		
S.N.	Test Parameter	Unit	Test Method	Surface Water)	Inlet	Outlet	
П	Chemical Testing 2. Residues In Water						
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	0.98	0.26	
11	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
12	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01	
13	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
14	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
15	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
16	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
17	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Total Chromium	mg/l	IS 3025 (Part 2) : 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Vanadium (as V)	mg/l	IS 3025 (Part 2) : 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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---- End of Report----

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

Verified By

Mangesh Fande

Technical Manager

Authorized Signatory

ian

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

		1										
Test F	Report No.	:ALPL/3009	2023/3-2	1B		dated 30/09/20				Page		
	To:			Inward No.		ALPL/25092023	/MON-2/2	4-13&14	Analysi	s Start	26	/09/2023
M/s N	oamundi	Iron Mine	Inward	Date	25/09/2023			Analysi	Analysis End 30/0		/09/2023	
(M/s 1	TATA Stee	l Limited)	Refere				Report			/09/2023		
Noam	undi, Jhark	chand				DATES AND	20/2/02			Category	W	ater
Postal	Code: 833	217	Refere	nce Date		22.03.2022						
Samp	ole Name		ple Sour			Sample Par	ticulars		Sample (Condition	Qua	intity Received
Sewa	ge Water	Bottom Bin	ETP 10 k & Outlet	KLD Inlet		Sample Code-W	/W-13 & 1	4	Sealed & Id	e Preserved	5.0) Ltr & 250 ml
	Sar	nple Collected	d By		S	ampling Date	Sa	mpling Ti	me	Samp	ling	Location
		con Represent				22/09/2023	11.2	5 am to 4.2	0.000	Bottom Bin I	ETP	10 KLD Inlet &
								5 am to 4.2	o più		Out	et
						TEST RESU	JLTS					
S.N.	т	of Paramatar		Measurem	ent	Test Meth	hou		irds (In Surfa <mark>ce</mark>	T	est R	esult
5.IN.	.N. Test Parameter		Unit		Test Method		Water)		Inlet		Outlet	
I	Biological	Testing 1.W	ater					20				_
1	Faecal coli	iform		MPN/100	ml	IS 1622 : 1	981	2.		43		21
п	Chemical Pollution	Testing & Environn	nent				<	2^{\vee}				
2	Colour			Hazen uni	ts	IS 3025 (Part 4):1983	Colo	urless	2		0 (Colourless
3	Odour			-		IS 3025 (Part 5):2018	Odo	urless	Disagreeabl		Agreeable
4	Copper (as	s Cu)		mg/l		IS 3025 (Part 2	2):2019		.0	BDL(DL-5)	BDL(DL-5)
5	Temperatu			°C		APHA Met	hod	5°C at receivi	ot exceed oove the ng water erature	25°C		25°C
6	Free residu	ual chlorine		mg/l	10	IS 3025 (Part 26): 1986	1.	0	BDL(DL-0.1)	BDL(DL-0.1)
7		size of SS				Gravimetric 1	Method		oass 850 IS Sieve	<850		<850
8	Free Amm	ionia (as NH ₃)	(mg/l		APHA Me	thod		5	BDL(DL-0.	1)	BDL(DL-0.1
9	Fluoride (a			mg/l	2	IS 3025 (Part 6			2.0	0.43		BDL(DL-0.1
10	Sulphide (as S)		mg/l		IS 3025 (Part 29	9):1986		2.0	BDL(DL-0.0)3)	BDL(DL-0.03
11	Nitrate Nit			mg/l		APHA Met	hod		10	4.97		BDL(DL-2)
12	Bio Assay		~~	%		APHA 22nd	Edition	fish afte	irvival of r 96 hours 6 effluent	82%		94%
13	Hexavaler	t Chromium (as Cr ⁺⁶)	mg/l		IS 3025 (Part 5	(2):2003	().1	BDL(DL-0.0		BDL(DL-0.01
14		Phosphate (as		mg/l		IS 3025 (Part 3		4	5.0	BDL(DL-0.	1)	BDL(DL-0.1

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

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories Kathane Pooja Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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



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TC 5458

ULR No.- TC545823000003000F

Test Report No. :	ALPL/3009	2023/3-23A	dated 30/09/202	23			Page 1 of 2
Issued To :		Sample Inward No.	ALPL/25092023/	Analysis	Start	26/09/2023	
M/s Noamundi I		Inward Date	25/09/2023		Analysis	End	30/09/2023
(M/s TATA Steel Limited) Noamundi, Jharkhand Postal Code: 833217		Reference Reference Date	W.O 470009892 22.03.2022	Report Is Sample (ssue Date Category	30/09/2023 Water	
Sample Name Sample Source Sewage Water Hospital ETP 10 KLD Inlet & Outlet Sample Collected By Anacon Representative		I ETP 10 KLD	Sample Particulars Sample Code-WW-17 & 18		Sample Co Sealed & Ice		Quantity Received 5.0 Ltr & 250 ml
		Sampling Date Sampling Tir 22/09/2023 11.35 am to 4.20			Hospi	pling Location ital ETP 10 KLD nlet & Outlet	

Test Report

TEST RESULTS

	T + P	Measurement	Tables	Standards (In	Test Result		
S.N.	Test Parameter	Unit	Test Method	Land Surface Water)	Inlet	Outlet	
I	Chemical Testing Pollution & Environment	, , ,					
1	pH value	-	IS 3025 (Part 11) : 2022	5.5 to 9.0	6.71 at 25°C	6.87 at 25°C	
2	Oil & Grease	mg/l	IS 3025 (Part 39) : 1991	10	BDL(DL-4)	BDL(DL-4)	
3	Total Suspended Solid (TSS)	mg/l	IS 3025 (Part 17): 1984	100	86	52 .	
4	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) :1988	50	34	26	
5	Total Kjeldahl Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	100	52	41	
6	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	30	26	16	
7	Chemical Oxygen Demand	mg/l	IS 3025 (Part 58) :2006	250	82	54	
8	Cyanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.2	BDL(DL-0.1)	BDL(DL-0.1)	
9	Phenolic Compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) : 2022	1.0	BDL(DL-0.1)	BDL(DL-0.1)	

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Verified by

Snehal Raut

Deputy Technical Manager

Authorized Signatory

154am

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

ULR No TC545823000003000F	
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LPL/30092	2023/3-23A	dated 30/09/202	3			Page 2 of 2	
sued To : Sample In		ALPL/25092023/	Analysis Star	rt	26/09/2023		
n Mine	Inward Date	25/09/2023		Analysis End	1	30/09/2023	
imited)	Reference	W.O 470009892			30/09/2023		
Noamundi, Jharkhand Postal Code: 833217		22.03.2022	gory	Water			
		Sample Part	Sample Condi	tion	Quantity Received		
		Sample Code-W	Sealed & Ice Preserved		5.0 Ltr & 250 ml		
Sample Collected By Anacon Representative		Sampling Date 22/09/2023		Hospi		pling Location ital ETP 10 KLD nlet & Outlet	
	n Mine imited) nd 7 Sam Hospita Inle e Collected	Initial Oute ad 7 Reference Sample Source Hospital ETP 10 KLD Inlet & Outlet	In Mine Sample Inward No. ALPL/25092023/ Inward Date 25/09/2023 Reference W.O 470009892 Reference Date 22.03.2022 Sample Source Sample Part Hospital ETP 10 KLD Sample Code-W Inlet & Outlet Sampling Date	Sample Inward No. ALPL/25092023/MON-2/24-17&18 Inward Date 25/09/2023 Reference W.O 4700098928/962 Reference Date 22.03.2022 Sample Source Sample Particulars Hospital ETP 10 KLD Sample Code-WW-17 & 18 Inlet & Outlet Sampling Date Sampling T	Sample Inward No. ALPL/25092023/MON-2/24-17&18 Analysis Stat n Mine imited) nd 7 Inward Date Reference 25/09/2023 Analysis End Report Issue 22.03.2022 Sample Source Hospital ETP 10 KLD Inlet & Outlet Sample Particulars Sample Code- Sample Code-WW-17 & 18 e Collected By Sampling Date Sampling Date	Sample Inward No. ALPL/25092023/MON-2/24-17&18 Analysis Start Inward Date 25/09/2023 Analysis End Inward Date 25/09/2023 Analysis End Reference W.O 4700098928/962 Report Issue Date Reference Date 22.03.2022 Sample Category Sample Source Sample Code-WW-17 & 18 Sample Condition Inlet & Outlet Sampling Date Sampling Time Sample Sample Sample Sampling Time e Collected By Sampling Date Sampling Time Sample Sample Sample Sample Sampling Time	

TEST RESULTS

		Measurement		Standards	Test Result		
S.N.	Test Parameter	Unit Test Method		(In Land Surface Water)	Inlet	Outlet	
п	Chemical Testing 2. Residues In Water						
10	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	3.0	1.27	0.41	
11	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
12	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994	0.01	BDL(DL-0.01)	BDL(DL-0.01)	
13	Cadmium (as Cd)	mg/l	IS: 3025 (Part 41): 1992	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
14	Selenium (as Se)	mg/l	IS: 3025 (Part 56): 2003	0.05	BDL(DL-0.1)	BDL(DL-0.1)	
15	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.1)	BDL(DL-0.1)	
16	Arsenic (as As)	mg/l	IS: 3025 (Part 37): 2022	0.2	BDL(DL-0.05)	BDL(DL-0.05)	
17	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	3.0	BDL(DL-0.1)	BDL(DL-0.1)	
18	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5.0	BDL(DL-0.1)	BDL(DL-0.1)	
19	Total Chromium	mg/l	IS 3025 (Part 2): 2019	2.0	BDL(DL-0.1)	BDL(DL-0.1)	
20	Vanadium (as V)	mg/l	IS 3025 (Part 2): 2019	0.2	BDL(DL-0.1)	BDL(DL-0.1)	

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---- End of Report----

Verified By

Mangesh Fande

Technical Manager

Authorized Signatory

ain

Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test F	Report No. :	ALPL/3009	2023/3-2	3B	dated 30/0				Page	1 of	
	1 To :			e Inward No.	ALPL/250	92023/MON-2/2	4-17&18	Analysis	s Start	26/0	09/2023
M/s N	loamundi l	ron Mine	Inward	l Date	25/09/2023	1		Analysis	s End	30/0	09/2023
(M/s	TATA Stee	Limited)	Refere			0098928/962			Issue Date	30/	09/2023
Noam	undi, Jhark	hand						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Category	Wa	
	Code: 833		Refere	nce Date	22.03.2022			Sumpre		10.5	
Sam	ole Name	Sam	ple Sour	ce	Sampl	e Particulars		Sample C	Condition	Quan	tity Received
Sewa	ge Water		d ETP 10 et & Outle		Sample Co	ode-WW-17 & 1	8 S	ealed & Ic	e Preserved	5.0	Ltr & 250 ml -
	San	ple Collecter	d By		Sampling Da	te Sa	mpling Tin	ne	Sampl	ing L	ocation
		con Represent			22/09/2023	11.3	5 am to 4.20) pm		al ETP 10 KLD et & Outlet	
					TEST I	RESULTS					
S.N.	Test Parameter Measur			Measureme	ant		Standar Land S		Test Result		sult
5.IN.	Te	st rarameter		Unit	Test	Method	Wat	100.000	A DECEMBER OF A		Outlet
I	Biological	Testing 1.W	ater			*	-	3			
1	Faecal coliform		MPN/100 n	nl IS 16	22:1981	<u> </u>		46		17	
п	Chemical Pollution	Testing & Environn	nent			• <					
2	Colour			Hazen unit	s IS 3025 (Part 4): 1983	Color	irless	2		0 (Colourless)
3	Odour			-	IS 3025 (I	Part 5): 2018	Odou	rless	Disagreeabl		Agreeable
4	Copper (as	Cu)		mg/l	IS 3025 (Part 2): 2019	3.	0	BDL(DL-5)	BDL(DL-5)
5	Temperature		°C	APH	A Method	Shall no 5°C abo receivin tempe	ove the g water	25°C		25°C	
6	Free residu	al chlorine		mg/l	IS 3025 (P	art 26): 1986	1.0)	BDL(DL-0.1)	BDL(DL-0.1)
7	Particulate			1	Gravim	etric Method	Shall pa micron		<850		<850
8	Free Amm	onia (as NH ₃))	mg/l	APH	A Method	5	5	BDL(DL-0.	1)	BDL(DL-0.1)
9	Fluoride (a			mg/l	IS 3025 (Part 60) : 2008	2.	0	0.31		BDL(DL-0.1
10	Sulphide (mg/l		Part 29) : 1986	2.	0	BDL(DL-0.0)3)	BDL(DL-0.03
11	Nitrate Nit		N .	mg/l		A Method		0	6.92		BDL(DL-2)
Canal I			%	APHA	22nd Edition		rvival of 96 hours	84%		92%	
12	Bio Assay						in 100%	emuent			
12		t Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 52) : 2003	0		BDL(DL-0.0)1)	BDL(DL-0.01 BDL(DL-0.1)

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'. • Result for test no. 5 is not relevant. • BDL- Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent'. **REMARKS :** As requested by the client, sample was tested for above parameters only.

Verified By

Mangesh Fande

Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories Pooja Kathane

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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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 endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in

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

Annexure-III

Naomundi PH Implementation Status

SL.No	Particulars/ PH Requirements	Quantity	Status
1	Road Maintenance in village area- (Road from Mohudi village	8 Km	Work Completed
_	to Sarbil Road from Bobonga petrol pump to Dondiya sahi)		······································
2	Provision of drinking water with pipeline (Noamundi, Mahudi)	2 Areas	NOC work is in process
3	Providing toilets in schools (5 schools in surrounding villages)	5 Nos.	Finishing work under progress in Mahudi, Jampani, Bara Baljodi. Sialjora and Pachaisai(Mahudi) under progress.
4	Solar-powered micro lift irrigation (Surrounding villages)	5 Nos.	Work in progress
5	Provision of toilet facility (Noamundi Bazaar, DVC Gate Bus Stand)	2 Nos.	Work Completed. Toilet facility provided at two locations
6	Provision of critical care ambulance (Surrounding villages)	2 Nos.	Work completed. 2 numbers of critical care ambulances provided
7	Provision of community toilet and bathing complex (Azad Basti, Lakhansaahi)	2 Nos.	NOC work is in progress
8	Augmentation of solid waste management facility (Noamundi Bazar, Kotgarh)	2 Units	Work completed
9	Installation of electric crematorium for ensuring cleaner ghats (Dukasai)		Yet to start
10	Provision of school bus (Baitarini route)	1 Bus	Work Completed. School bus provided
11	Provision of lab-on-wheels (Noamundi Block)	1 No.	Work Completed. Modification done in existing vehicle. Handed over to Jagannathpur ITI Principal.
12	Construction of Science Lab (Kothghar, Sialjoda)	2 No.	Completed.
13	Construction of rooms, hostel, computer lab and auditorium (Noamundi)	1 Unit	Finishing work on progress
14	Increase in capacity of ITI College, construction & equipping of related infrastructure (Jagannath)	1 Unit	200 mtrs Boundary wall completed. Entrance gate work is on progress.
15	Development of playgrounds for promoting sport activities (Mahudi, Sarbil, Bhangaon)	3 Nos.	NOC is awaited for Mahudi, Sarbil. Bhangaon work is under progress
16	Construction of haat (market sheds) (Bhangaon, Kotgarh, Jetia)	3 Nos.	NOC is awaited
17	Infrastructure support for Mushroom cultivation (Surrounding villages)	100 Nos.	Beneficiary identified. Work to start
18	Provision of Goatery sheds (Surrounding villages)	100 Nos.	Beneficiary identified. Work to start

ANNEXURE-IV



Mukhiya, Diriburu Panchayat, AT/Po Noamundi, Dist:West Singhbhum, Jharkhand, Pin-833218

Ref: MD/ENV/ 215 / 97 /2021

Dated: 08.09.2021

 Sub: Environmental Clearance for Expansion of Noamundi Iron Ore Mine from 10 MTPA To 19 MTPA (ROM) with total excavation of 27 MTPA (ML Area 1160.06 Ha) along with increase of Iron Ore Beneficiation Plant Capacity (feed to plant) from 18 MTPA To 27 MTPA in total project area 1230.42 Ha located at Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori Villages, West Singhbhum District, Jharkhand of M/s Tata Steel Limited (File No. J-11015/104/2011-IA.II (M))

Ref: Vide letter ref no. J-11015/104/2011-IA.II (M) Dated 06.09.2021.

Dear Sir,

This is to inform you that Environment Clearance has been granted for expansion of Noamundi Iron Ore Mine from 10 MTPA To 19 MTPA (ROM) with total excavation of 27 MTPA (ML Area 1160.06 Ha) along with increase of Iron Ore Beneficiation Plant Capacity (feed to plant) from 18 MTPA To 27 MTPA in total project area 1230.42 Ha located at Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori Villages, West Singhbhum District, Jharkhand of M/s Tata Steel Limited. A copy of EC is enclosed for reference.

Thanking you,

Yours sincerely, f: Tata Steel Limited

Chief (Mine Planning & Projects) OMQ

Encl: EC of Noamundi Iron Mine



TATA STEEL LIMITED



Mukhiya, Kadajamda Panchayat, AT/Po Noamundi, Dist:West Singhbhum, Jharkhand, Pin-833218

Ref: MD/ENV/ 216 / 97 /2021

Dated: 08.09.2021

Sub: Environmental Clearance for Expansion of Noamundi Iron Ore Mine from 10 MTPA To 19 MTPA (ROM) with total excavation of 27 MTPA (ML Area 1160.06 Ha) along with increase of Iron Ore Beneficiation Plant Capacity (feed to plant) from 18 MTPA To 27 MTPA in total project area 1230.42 Ha located at Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori Villages, West Singhbhum District, Jharkhand of M/s Tata Steel Limited (File No. J-11015/104/2011-IA.II (M))

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Yours sincerely, f: Tata Steel Limited

Rematofurge Chief (Mine Planning & Projects) OMQ यंचायतः कादाजामवा EC of Noamundi Iron Mine

TATA STEEL LIMITED



Mukhiya, Mohudi Panchayat, AT/Po Noamundi, Dist: West Singhbhum, Jharkhand, Pin-833218

Ref: MD/ENV/ 217 / 97 /2021

Dated: 08.09.2021

 Sub: Environmental Clearance for Expansion of Noamundi Iron Ore Mine from 10 MTPA To 19 MTPA (ROM) with total excavation of 27 MTPA (ML Area 1160.06 Ha) along with increase of Iron Ore Beneficiation Plant Capacity (feed to plant) from 18 MTPA To 27 MTPA in total project area 1230.42 Ha located at Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori Villages, West Singhbhum District, Jharkhand of M/s Tata Steel Limited (File No. J-11015/104/2011-IA.II (M))

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Thanking you,

Yours sincerely, f: Tata Steel Limited

Chief (Mine Planning & Projects) OMQ

Encl: EC of Noamundi Iron Mine

TATA STEEL LIMITED



Mukhiya, Noamundi Panchayat, AT/Po Noamundi, Dist:West Singhbhum, Jharkhand, Pin-833218

Ref: MD/ENV/ 213 /97/2021

Dated: 08.09.2021

 Sub: Environmental Clearance for Expansion of Noamundi Iron Ore Mine from 10 MTPA To 19 MTPA (ROM) with total excavation of 27 MTPA (ML Area 1160.06 Ha) along with increase of Iron Ore Beneficiation Plant Capacity (feed to plant) from 18 MTPA To 27 MTPA in total project area 1230.42 Ha located at Mahudi, Balijore, Korta, Noamundi, Sarbil and Barabalijori Villages, West Singhbhum District, Jharkhand of M/s Tata Steel Limited (File No. J-11015/104/2011-IA.II (M))

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Jang

Chief (Mine Planning & Projects) OMQ

Encl: EC of Noamundi Iron Mine

TATA STEEL LIMITED



Mukhiya, Balijhore Panchayat, AT/Po Noamundi, Dist:West Singhbhum, Jharkhand, Pin-833218

Ref: MD/ENV/ 214 / 97 /2021

Dated: 08.09.2021

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Thanking you,

Yours sincerely, f: Tata Steel Limited

Chief (Mine Planning & Projects) OMQ

Encl: EC of Noamundi Iron Mine



TATA STEEL LIMITED

ANNEXURE-V



Regional Office Ministry of Environment, Forest & Climate Change Regional Office (ECZ), Bunglow No. A-2 Shyamali Colony Ranchi – 834002

MD/ENV/ 210 / 97 /2021 Date: 13.09.2021

Sub: Advertisement regarding grant of Environmental Clearance for expansion of Noamundi Iron Mine of M/s Tata Steel Limited.

Ref: Environmental Clearance letter no. J-11015/104/2011-IA.II (M) dated: 06.09.2021.

Dear Sir,

In compliance to the standard condition no. 13 in EC granted with vide letter no. J-11015/104/2011-IA.II (M) dated: 06.09.2021 which states that "The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of clearance letter mentioning that the instant project has been accorded EC and copy of EC letter is available with the State Pollution Control Board/Committee and website of Ministry of Environment, Forest and Climate Change(www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional office for compliance and record" we hereby advertised in two newspapers i.e Avenue Mail(English) and Prabhat Khabar(Hindi) on 12.09.2021. A copy is enclosed as annexure.

Thanking you,

Yours faithfully, f: Tata Steel Limited

Chief (Mine Planning & Projects), OMQ

Encl: As above

TATA STEEL LIMITED

Work for people, not position, Kejriwal's golden advice to AAP cadre

New Delki, Sep 13 (LANS) Ann Andrei Pary (LANS) Ann Andrei Pary (AAP) convenier Arvini Reprivat on Saturday advised his cade to work for people and not for some party protions, or electors taken as he does not wart manues to point fugues and ty that this purty loss, here comes just like the BJP and Compress. We have to a and we have to work for our people. Do your a so beliantly that we to come to you to to come to you for a positi not you for a positi senders, of your have to reach to for a position or et then it escato you do deserve it. Your e deserve it. Your opiness should come serving the service



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NCW takes cognizance of Sakinaka rape case

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Congress

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gong to a log-of-war the chief minimum Tr corr faid like desiring a

then metaans year king hours. Work and k until that fooling seips of year," the

By Moloranad Suid-

New Delhi, Sep 11 New Belki, Sep 11 (EANS) Soon after Kerner 195 officer Ighal Simple Catpurs took arear the charge of National Commission in Minerities the Chatman, he started ing the prievances

tearing the privation of the people. Laboratory that solving the pending cases quickly will be a challinge for him he as exclusive conversations with IANS on Frides, he und, "Ne will work for the vertice beinging to the animority conserve that no wrong matters is being set." "Many add and sets are being pending and they will be depend of score," he added "Sector The Chartenne's "Score the Chartenne's

from Maharad sce the Chairman's Harvana, Hiltor and others has been lying vacant for a long time, story, will be any also p

soon," he noted. On the other hand, the several research studies in the Minorities Commission taken to provid public to the vici-Lalputa asserted As per the automation, over 500 caura subient, over are pending before the Commission, "We have a total of 524

NATION

Congress announces

new chief in poll-

bound Manipur Imphal, Sep 13 (EANS)

Congress maries Periodent Sonia Gandhi on Friday appointed N. Loken Singh as the President of the

an the President of the Mangua unit, while also naming stress Working Presidents for the poll-housed

compliants pending cases Delhi has the highest namber of pending cases -187, while the incident from states like P

the Minorities Continuing are also yet to be completed Lalpara is also considering to merit as many people in possible, know their produces and ty to ensure gather, so that a reset can be enablished anong the people " will personally more people or well contact them where resonance, or here and the second time.

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Vivekananda's message: President Kovind Prayagraj, Sep 11 (13.55) Provident Ram Nath Kovand on Saturday etted the message of pence.

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Could've averted 9/11 if world had accepted

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'Blot on humanity,' says Thackeray as Mumbai

rape-assault victim dies in hospital

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Vijay Rupani: Fourth BJP CM to quit in 6 months Karnal standoff ends: Haryana

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TATA

India, Sudan navies carry out maritime drill in Red Sea

Gandhinagar, Sep 11 (IANS) Soov after Goparat Chief Minister Vijay Rupans subtained his

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Ide Mol F&CC letter no: F.No. 1A-J-11015/104/2011-IA-8 (M) dated In mber, 2021, Noamundi Iron Mine of M/s Tata Steel Ltd. has be environmental clearance for its expansion in production of Iron Ore from 10 MTPA to 19 MTPA (ROM) with total excavation of 27 MTPA (ML Area 1162.06 Hal along with increase of inte Ose Beneficiation Plant Capacity Reed to plant) toris 18 MTPA To 27 MTPA in total project area 1280-42 Ha located at Mahadi Baljore, Korta, Noamundi, Sarbil and Barabalijori Villages, West Singhlithur District, Jharkhand, The copy of EC tetter is available with Jharkhand State ution Control Board and also on website of Ministry of En

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New Delhi, Sep 11 (LANS) filling models DATE IN

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ANNEXURE-VII



The Member Secretary Jharkhand State Pollution Control Board T A Division Building, HEC Campus, Dhurwa Ranchi – 834004

Sub: Environmental monitoring report for the month of May 2023 of Noamundi Iron Mine, M/s Tata Steel Limited.

MD/ ENV/ 646 /140 - A/2023 Date: 06.06.2023

Dear Sir

In compliance to the conditions stated in the consent order no. JSPCB/HO/RNC/CTO-13904751/2022/1713, dated: 06.12.2022, we are submitting the following reports for Noamundi Iron Mine for your kind perusal.

- 1. Ambient Air Quality Monitoring Report of Core & Buffer Zone
- 2. Fugitive Emission Report
- 3. Drinking Water Quality Report
- 4. Domestic Effluent Quality Report
- 5. Ground Water Level
- 6. Ground water Quality Report
- 7. Surface water Quality Report
- 8. Noise Survey Report
- 9. Meteorological Report
- 10. Plantation Data

Thanking you,

Yours faithfully f: Tata Steel Limited

Sr Manager (Environment), OMQ

Encl: As above

Copy to: The Regional Officer, Jharkhand State Pollution Control Board, MB/12 New Housing Colony, Adityapur, Jamshedpur - 831013, Jharkhand

TATA STEEL LIMITED



The Member Secretary Jharkhand State Pollution Control Board T A Division Building, HEC Campus, Dhurwa Ranchi – 834004

Sub: Environmental monitoring report for the month of August 2023 of Noamundi Iron Mine, M/s Tata Steel Limited.

MD/ ENV/ 801 /140 - A/2023 Date: 07.09.2023

Dear Sir

In compliance to the conditions stated in the consent order no. JSPCB/HO/RNC/CTO-13904751/2022/1713, dated: 06.12.2022, we are submitting the following reports for Noamundi Iron Mine for your kind perusal.

- 1. Ambient Air Quality Monitoring Report of Core & Buffer Zone
- 2. Fugitive Emission Report
- 3. Drinking Water Quality Report
- 4. Domestic Effluent Quality Report
- 5. Ground Water Level
- 6. Ground water Quality report
- 7. Noise Survey Report
- 8. Meteorological Report
- 9. Plantation Data

Thanking you,

Yours faithfully f: Tata Steel Limited

Head (Planning), OMQ

Encl: As above

Copy to: The Regional Officer, Jharkhand State Pollution Control Board, MB/12 New Housing Colony, Adityapur, Jamshedpur - 831013, Jharkhand

TATA STEEL LIMITED

ANNEXURE-VIII



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

Test Report

1

Test Report No. : Issued To :		Sample Inward No.	ALPL/23052023/ENV-116- SW	-1 & 2	Analysis Star	t 24/05/2023	
M/s Noamundi I	ron Mines	Inward Date	23/05/2023	-	Analysis End	30/05/2023	
(M/s TATA Steel Noamundi, Jhark		Reference	W.O 4700098928/962		Report Issue Date	31/05/2023	
Postal Code: 833	217	Reference Date	22.03.2022		Sample Category Water		
Sample Name	Sample Name Sample Source Surface Water 1.Balijhore Nallah Upstream (SW-15) 2.Balijhore Nallah Downstream (SW-16)		Sample Particulars	Sample C	Quantity Received		
•			Sample Code-SW-1 & 2	Sealed & Ice Preserved		2.0 Ltr & 250 ml each	
Sample Collected By Sampling Date Anacon Representative Mr.Sovan Giri 18/05/2023			Sampling Time	Sampling Location			
			12.40 & 1.20 pm	1.Balijhore Nallah Upstream (SW-1) 2. Downstream (SW-2)			

TEST RESULTS

	aparette des contractos de contractos			Standards as	Test Result		
S.N.	Test Parameter	Measurement Unit	Test Method	per IS 2296:1992 Class C	SW-1	SW-2	
I	Biological Testing 1.Water						
1	Total Colifom	MPN/100ml	IS 1622 : 1981	5000	BDL(DL-2)	BDL(DL-2)	
11	Chemical Testing 1.Water						
2	pH value	-	IS 3025 (Part 11) : 1983	6.0 to 9.0	8.14 at 25°C	7.98 at 25°C	
3	Colour	Hazen units	IS 3025 (Part 4): 2021	300	6	4	
4	Dissolved Oxygen	mg/l	IS 3025 (Part 38) :1989	4.0	6.8	6.2	
5	Total Suspended Solid (as TSS)	mg/l	IS 3025 (Part 17):1984		BDL(DL-10)	BDL(DL-10)	
6.	BOD (3 days at 27°C)	mg/l	IS 3025 (Part 44) :1993	3.0	BDL(DL-2)	BDL(DL-2)	
7	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006		13.6	12.4	
8	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part 16) : 1984	1500	417	392	
9	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	1.5	BDL(DL-0.03)	BDL(DL-0.03)	
10	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	600	48.26	43.81	
11	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 1986	400	18.24	16.52	
12	Nitrate (as NO ₃)	mg/l	IS 3025 (Part 34) : 1988	50	9.27	7.64	
13	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.5	0.31	0.28	
14	Cvanide (as CN)	mg/l	IS 3025 (Part 27) : 1986	0.05	BDL(DL-0.005)	BDL(DL-0.005)	
15	Phenolic compounds (as C6H5OH)	mg/l	IS 3025 (Part 43) :1001	0.005	BDL(DL-0.001)	BDL(DL-0.001)	
16	Anionic Detergent	mg/l	IS 13428 : 2005 Annex K	1.0	BDL(DL-0.01)	BDL(DL-0.01)	
	Chemical Testing 2. Residues	s In Water					
17	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.5	0.37	0.26	
18	Cadmium (as Cd)	mg/l	IS 3025 (Part 41) : 1992	0.01	BDL(DL-0.001)	BDL(DL-0.001)	
19	Selenium (as Se)	mg/l	IS 3025 (Part 2): 2019	0.05	BDL(DL-0.001)	BDL(DL-0.001)	
20	Arsenic (as As)	mg/l	IS 3025 (Part 37): 1988	0.2	BDL(DL-0.001)	BDL(DL-0.001)	
21	Lead (as Pb)	mg/l	IS 3025 (Part 47) : 2003	0.1	BDL(DL-0.05)	BDL(DL-0.05)	
22	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	15	BDL(DL-0.05)	BDL(DL-0.05)	
23	Hexa Chromium (as Cr ⁺⁶)	mg/l	IS 3025 (Part 52) :2003	1.0	BDL(DL-0.001)	BDL(DL-0.001)	
24	Mercury (as Hg)	mg/l	IS: 3025 (Part 48): 1994		BDL(DL-0.005)	BDL(DL-0.005)	
25	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019		BDL(DL-0.05)	BDL(DL-0.05)	

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'. • BDL-Below detection limit • DL- Indicates detection limit of instrument/method and shall be considered as 'absent'.

1.

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

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Pooja Kathane Technical Manager

---End of Report-----

Authorized Signatories

Dr. (Mrs.) S.D. Garway Quality Manager



Thanks for putting in your faith and trust in our services, We at Anacon Laboratories cherish our relationship. We put in a lot of hard work to ensure that you have a seamless experience at every step of our relationship. in order to ensure that your next experience will be significantly better, we welcome your feedback over email 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

<u>Test Report</u>

Issued To :		Sample Inward No.	ALPL/24082023/ENV-200- SW	Analysis Star	rt 24/08/2023	
(M/s TATA Steel Limited) Noamundi, Jharkhand		Inward Date	24/08/2023	Analysis End	31/08/2023	
		Reference	W.O 4700098928/962	Report Issue Date	31/08/2023	
		Reference Date	22.03.2022		Sample Cate	gory Water
Sample Name Samp		Sample Source	Sample Particulars	•		Quantity Received
Surface Water	1.Balijhore Nallah Upstream (SW-15) 2.Balijhore Nallah Downstream (SW-16)		Sample Code-SW-1 & 2			2.0 Ltr & 250 ml each
Sample Collected By Sampling Date Anacon Representative 18/08/2023			Sampling Time	Sampling Location 1.Balijhore Nallah Upstream (SW-1) 2. Downstream (SW-2)		
			12.10 & 12.50 pm			

TEST RESULTS **Test Result** Standards as Measurement per IS S.N. **Test Parameter Test Method** SW-2 2296:1992 SW-1 Unit Class C **Biological Testing** 1.Water 1 1S 1622 : 1981 5000 BDL(DL-2) BDL(DL-2) MPN/100ml 1 Coliforn Chemical Testing 1.Water П 7.94 at 25°C IS 3025 (Part 11): 1983 6.0 to 9.0 8.21 at 25°C pH value 2 IS 3025 (Part 4): 2021 300 16 12 Hazen units 3 Colour 6.7 6.3 IS 3025 (Part 38) :1989 4.0 Dissolved Oxygen mg/l 4 BDL(DL-10) BDL(DL-10) Total Suspended Solid (as TSS) IS 3025 (Part 17):1984 5 mg/l IS 3025 (Part 44) :1993 3.0 BDL(DL-2) BDL(DL-2) BOD (3 days at 27°C) mg/l 6 14.6 11.9 Chemical oxygen demand mg/l IS 3025 (Part 58) :2006 7 1194 953 1500 IS 3025 (Part 16): 2023 8 Total Dissolved Solids (TDS) mg/l IS 3025 (Part 2): 2019 1.5 BDL(DL-0.03) BDL(DL-0.03) 9 Copper (as Cu) mg/l 56.27 48 19 IS 3025 (Part 32) :1988 600 10 Chloride (as Cl) mg/l 23.58 19.57 IS 3025 (Part 24) : 1986 400 11 Sulphate (as SO4) mg/l IS 3025 (Part 34): 1988 50 12.64 9.26 mg/l Nitrate (as NO₃) 12 0.57 0.48 1.5 IS 3025 (Part 60) : 2008 13 Fluoride (as F) mg/l BDL(DL-0.005) BDL(DL-0.005) IS 3025 (Part 27): 1986 0.05 14 Cyanide (as CN) mg/l Phenolic compounds BDL(DL-0.001) IS 3025 (Part 43) :1001 0.005 BDL(DL-0.001) 15 mg/l (as C6H5OH) IS 13428 : 2005 Annex K 1.0 BDL(DL-0.01) BDL(DL-0.01) mg/l 16 Anionic Detergent 2. Residues In Water **Chemical Testing** 0.5 0.42 0.36 IS 3025 (Part 2): 2019 17 Iron (as Fe) mg/l 0.01 BDL(DL-0.001) BDL(DL-0.001) IS 3025 (Part 41): 1992 mg/l 18 Cadmium (as Cd) BDL(DL-0.001) BDL(DL-0.001) IS 3025 (Part 2): 2019 0.05 Selenium (as Se) mg/l 19 BDL(DL-0.001) BDL(DL-0.001) IS 3025 (Part 37): 1988 0.2 20 Arsenic (as As) mg/l BDL(DL-0.05) BDL(DL-0.05) IS 3025 (Part 47) : 2003 0.1 mg/l Lead (as Pb) 21 BDL(DL-0.05) IS 3025 (Part 2) : 2019 15 BDL(DL-0.05) Zinc (as Zn) mg/l 22 BDL(DL-0.001) 23 IS 3025 (Part 52) :2003 1.0 BDL(DL-0.001) Hexa Chromium (as Cr+6) mg/l BDL(DL-0.005) IS: 3025 (Part 48): 1994 BDL(DL-0.005) 24 mg/l --Mercury (as Hg) BDL(DL-0.05) BDL(DL-0.05) IS 3025 (Part 2): 2019 25 mg/l Manganese (as Mn)

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

Verified By

Mangesh Fande Technical Manager

Snehal Raut Deputy Technical Manager

Authorized Signatories Pooja Kathane

Technical Manager

Dr. (Mrs.) S.D. Garway Quality Manager

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 endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in

-- End of Report-----