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Letter No: ESL-IOO/HSE/MoEF/24-25/01

Date: 31.05.2024

To,

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

Sub: Submission of Six-monthly EC compliance report for the Nadidihi Iron Ore Mines of M/s ESL Steel Limited for the period of 1st October 2023 to 31st March 2024.

Ref: - 1. Vesting Order, no 8469/ SM dated 22.10.2021., Bhubaneswar. issued by Govt of Odisha, Steel and Mines Department.

Sir,

We hereby submitting the half yearly Environmental clearance compliance report of reference letter from MoEF &CC, New Delhi- J-11015/135/2012-IA.II (M) dated: 18.06.2019 for Nadidihi Iron Ore Mines of M/S ESL Steel Ltd.

Thanking you

Yours Faithfully
For ESL Steel Ltd

Mr. Biswanath Sahoo Chief Operating Officer

## Copy to:

- 1. Zonal Office Kolkata, Central Pollution Control Board, South end Conclave, Block 502, 5th and 6th Floors, 1582 Razidanga Main Road, Kolkata, West Bengal 700107.
- 2. The Member Secretary, State Pollution Control Board, A/118, Nilakantha Nagar, Bhubaneswar, Odisha-751012.
- 3. The Regional Officer, State Pollution Control Board, Near Panposh Hockey Chawk, Rourkela, Sundargarh, Odisha-769004.





# ENVIRONMENT CLEARANCE COMPLIANCE STATUS -- Nadidihi Iron Ore Mines.

Six Monthly Compliance report of Environmental Clearance for Nadidihi Iron Ore Mines , ESL Steel Ltd. for the period from-1st October 2023 to 31st March 2024.

Reference letter from MoEF &CC, New Delhi- J-11015/135/2012-IA.II (M) dated: 18.06.2019. Capacity- 9.0 MTPA of iron Ore Production.

Status- Operating Mine of 2.53 MTPA iron ore production.

A. Specific Conditions

A.	Specific Conditions	
Sr.	Specific Conditions	Status
No.		
1.	The enhance production shall be on pro-rata basis for	The mining activity is done on pro-data
	the effective period of valid environment clearance	basis as per approved mining plan from IBM
	herein. The PP shall ensure its compliance by getting	
	concurrence in mining plan approved by concerned	
	authority in this regard.	
2.	The EC for expansion proposal (iron ore production	We Undertake to comply with all the
	from 5.3 million TPA (4.3 MTPA ROM Iron ore + 1.0	conditions and submit the status on six
	MTPA of low grade iron ore from old dump within	monthly basis
	lease area) to 9.0 million TPA (8.0 MTPA ROM + 1.0	
	MTPA of low grade iron ore from old dump within	
	lease area)) shall be operational after submission of an	
	undertaking through affidavit to MoEF & CC within	
	15 days of receipt of this letter, for compliance of all	
3.	conditions prescribed herein.	THE 1' 11 A 14' CONTROLL
٥.	Project Proponent and Department of Steel & Mines,	The applicable recommendations of NEERI
	Govt. of Odisha shall ensure the implementation of	are included in the specific conditions of EC
	recommendations of carrying capacity study report	and responses are provided on the same.
	conducted by CSIR-NEERI w.r.t. mining proposal of Iron ore and/or manganese in the State of Odisha.	
4.	Department of Steel & Mines, Govt. of Odisha should	Department of Steel &Mines, Govt, of
i ''	prepare 5 years regional plan for annual iron ore	Odisha has prepared 5 years Regional Plan
	requirement from the state, which in turn shall be met	for annual Iron Ore Requirement
	from different mines/zones (e.g. Joda, Koira) in the	Tor annual from Ore Requirement
	state. Accordingly, sustainable annual production	
	(SAP) for each zone/mine may be followed adopting	
	necessary environmental protection measures.	
5.	Project Proponent shall construct the cement concrete	The mine exit to main road is provided with
	road from mine entrance and exit to the main road with	Cement concrete road.
佳	proper drainage system and green belt development	F
	along the roads and construction of road with minimum	
	300 inside the mine. This should be done within 1 year	
	for existing mines and new mines should have it since	
	the beginning. The Department of Steel & Mines,	
	Govt. of Odisha should ensure the compliance and	
	should not issue the Mining permits, if mine lease	
	holder has not constructed proper cement concrete road	
	as suggested. The EC for the expansion project shall be	







6.	The Committee observed that as per the recommendations of the NEERI report, the PP needs to do regular vacuum cleaning of all minerals carrying roads aiming at "zero dust re-suspension within 3 months". The EC for the expansion project shall be operated only after the compliance of the specific conditions.	Dust suppression is done by the water sprinkling through mobile tankers hence there is no dust
7.	Project Proponent shall monitor the environmental quality parameters as per EC and CTE/CTO conditions, and implementation of suggested measures for control of road dust and air pollution. Odisha State Pollution Control Board must ensure the compliance of CTE/CTO. Regional office of the MoEF&CC, Bhubaneswar shall monitor the compliance of the EC conditions. Regional Office of the Indian Bureau of Mines (IBM) shall monitor the compliance of mining plan and progressive mine closure plan. Any violation by mine lease holder may invite actions per the provisions of applicable Acts.	Environmental quality parameters are monitored on monthly basis based on EC / CTO condition reports attached in Annexure 1 and measures are taken for control of road dust and air pollution by Sprinkling of water and dry mist canon system and also compliance of Mining plan is submitted to IBM office
8.	Project Proponent shall ensure the compliance of Suggested Ore Transport Mode (SOTM) with association of the State Govt. of Odisha. All existing mines should ensure adoption of SOTM within next 5 years. New mines or mines seeking expansion should incorporate provision of SOTM in the beginning itself and should have system in place within next 5 years.	There is no rail capacity hence we have to depend on Road Transport for most volumes. Out of entire capacity of despatch 15 % is rail transport and rest is road transport
9.	The State Govt. of Odisha shall ensure dust free roads in mining areas wherever the road transportation of mineral is involved. The road shoulders shall be paved with fence besides compliance with IRC guidelines. All the roads should have proper drainage system and apart from paving of entire carriage width, the remaining right of way should have native plantation (dust capturing species). Further, regular maintenance should also be ensured by the Govt. of Odisha. Progress on development of dust free roads, implementation of SOTM, increased use of existing rail network, development of additional railway network/conveyor belt/pipelines, etc. shall be submitted periodically to Regional office of the MoEF&CC.	Full cooperation will be provided from the PP side.
10.	Project Proponent shall develop the parking plazas for trucks with proper basic amenities/facilities inside the mine. This should be done within one year for existing mines and new mines should have since beginning.	As there is no space availability inside the mine, development of parking plaza is difficult the transport trucks are parked at the side of haul road during loading
11.	Department of Steel and Mines shall ensure the construction of NH 215 as minimum 4 lane road with	Government of Odisha has constructed NH 215 as 4





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	proper drainage system and plantation and subsequent regular maintenance of the road as per IRC guidelines.	lane road
	Construction of other mineral carrying roads with	
	proper width and drainage system along with roadside	
	plantation to be carried out. This shall be completed	
	within 2 years.	
12.	Regular vacuum cleaning of all mineral carrying roads	Dust suppression is done by
	aiming at "Zero Dust Re-suspension" shall be adopted	the water sprinkling through
	by PWD/NHAI/Mine Lease Holders within a time	mobile tankers hence there
	period of 3 months for existing roads.	is zero dust
13.	In case the total requirement of iron ore exceeds the	Full Cooperation given to
	suggested limit for that year, permission for annual	authority, as such there is no
	production by an individual mine may be decided	requirement if there is any
	depending on approved EC capacity (for total actual	requirement co-operation
	dispatch) and actual production rate of individual mine	will be given
	during last year or any other criteria set by the State	
	Govt., i.e. Dept. of Steel & Mines Dept. in consultation	
	with IBM. RO should prepare in advance mine-wise	
	annual production scenario so that demand for iron ore	
	can be anticipated, and actual production/dispatch does	
14.	not exceed the suggested annual production.	D & D studies was conducted
14.	R&D studies towards utilization of low-grade iron should be conducted through research/academic	R&D studies was conducted by IMMT for utilization of
	institutes like IMMT Bhubaneswar, NMI Jamshedpur	low grade iron ore.
	and concerned metallurgical departments in IITs,	However as it is an
	NITs, etc. targeting full utilization of low-grade iron	auctioned mine according to
	(Fe content upto 45% by 2020 and upto 40% by 2025).	the lease deed we have not
	LCA of whole process including environmental	received permission for
	considerations should be done for techno-economic	dump operation and we
	and environmental viability. R&D studies on	don't have any low grade
	utilization of mine wastewater having high	iron ore
	concentration of Fe content for different commercial	
	applications in industries such as cosmetics,	
	pharmaceutical, paint industry should also be explored.	
	Responsibility: IBM, Dept of Steel & Mines,	
	Individual Mine Lease Holders	
15.	Develop proper rail network in the Joda-Koira region	Rail network Developed
	for mining activities. Rail transport shall not only be	connecting, Banspani (Joda
	pollution free mode but also will be much economical	Region) and Roxy railway
	option for iron ore transport. The rail network and/or	siding in Koira region with
	conveyor belt system upto public railway siding needs	consultation of State
	to be created. The total length of the conveyor belt	government and Railway
	system/rail network to be developed from mines to nearest railway sidings by 11 mines in Joda region is	Department we will fully complete with govt for
	estimated to be about 64 km. In Koira region, total	development
	length of rail network/conveyor system for 8 mines	development
	(under SOTM 1&2) is estimated to be around 95 km.	
	Develop a rail network connecting Banspani (Joda	
	region) and Roxy railway sidings in Koira Region.	
	Responsibility: Dept. of Steel and Mines, Govt. of	
	Odisha and Concerned mines along with Indian	





Railways. Time period: Max 7 years (by 2025) The Dept. of Steel & Mines, Govt. of Odisha should follow up with the concerned departments and railways so that proposed proper rail network is in place by 2025.  16. State Govt. of Odisha shall make all efforts to ensure exhausting all the iron and manganese ore resources in the existing working mines and from disturbed mining leases/zones in Joda and Koira region. The criteria suggested shall be applicable while suggesting appropriate lease area and sustainable mining rate. Responsibility: Dept. of Steel and Mines, Govt. of Odisha.  17. Mining operations/Process related: Project proponent shall implement the following mitigation measures:  1	110		transforming elements	(Formerly known as Electrosteel Steels
the existing working mines and from disturbed mining leases/zones in Joda and Koira region. The criteria suggested shall be applicable while suggesting appropriate lease area and sustainable mining rate. Responsibility: Dept. of Steel and Mines, Govt. of Odisha.  17. Mining operations/Process related: Project proponent shall implement the following mitigation measures:  1. Appropriate mining process and machinery (viz. right capacity, fuel efficient) should be selected to carry out various mining operations that generate minimal dust/air pollution, noise, wastewater and solid waste e.g. drills should either be operated with dust extractors or equipped with water injection system.  2. After commencement of mining operation, a study should be conducted to assess and quantify emission load generation (in terms of air pollution, noise, wastewater and solid waste) from each of the mining activity (including transportation) on annual basis. Efforts should be made to further eliminate/minimize generation of air pollution/dust, noise, wastewater, solid waste, generation in successive years through use of better technology. This shall be ensured by respective mine lease holders.  3. Various machineries/equipment selected (viz. dumpers, excavators, crushers, screen plants etc.) and transport means should have optimum fuel/power consumption, and their fuel/power consumption should be recorded on monthly basis. Inspection and maintenance of all the machineries/equipment/transport vehicles should be followed as per manufacturer's instructions/recommended time schedule and record should be maintained by the respective mine lease holders.  4. Digital processing of the entire lease area using remote sensing technique should be carried out	16.	Time properties The Draw follows of that 2025.	period: Max 7 years (by 2025) ept. of Steel & Mines, Govt. of Odisha should up with the concerned departments and railways t proposed proper rail network is in place by Govt. of Odisha shall make all efforts to ensure	<u> </u>
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regularly ence in 4 years for monitoring land	17.	proportine as unit of the state	res:  Appropriate mining process and machinery (viz. right capacity, fuel efficient) should be selected to carry out various mining operations that generate minimal dust/air pollution, noise, wastewater and solid waste e.g. drills should either be operated with dust extractors or equipped with water injection system.  After commencement of mining operation, a study should be conducted to assess and quantify emission load generation (in terms of air pollution, noise, wastewater and solid waste) from each of the mining activity (including transportation) on annual basis. Efforts should be made to further eliminate/minimize generation of air pollution/dust, noise, wastewater, solid waste generation in successive years through use of better technology. This shall be ensured by respective mine lease holders.  Various machineries/equipment selected (viz. dumpers, excavators, crushers, screen plants etc.) and transport means should have optimum fuel/power consumption, and their fuel/power consumption should be recorded on monthly basis. Inspection and maintenance of all the machineries/equipment/transport vehicles should be followed as per manufacturer's instructions/recommended time schedule and record should be maintained by the respective mine lease holders.  Digital processing of the entire lease area using	process according to IBM approved mining plan is carried out, excavators are selected based on hauling road fleets and also drills are operated with wet drilling system  2. The machinery equipment are maintained properly, and the fuel consumption is recorded on monthly basis the diesel quantity is monitored.  3. Various machineries/equipment selected (viz. dumpers, excavators, crushers, screen plants etc.) are inspected and maintained as per instructions  4. Digital processing of the entire lease area using remote sensing technique should be carried out regularly every year by





extent of pit area excavated should also be demarcated based on remote sensing analysis. This should be done by ORSAC (Odisha Space Applications Centre, Bhubaneswar) or an agency of national repute or if done by a private agency, the report shall be vetted/authenticated by ORSAC, Bhubaneswar. Expenses towards the same shall be borne by the respective mine lease holders.

- 18. **Air Environment Related:** Project Proponent shall 1. implement the following mitigation measures:
  - 1. Fugitive dust emissions from all the sources should be controlled regularly on daily basis. Water spraying arrangement on haul roads, loading, and unloading and at other transfer points should be provided and properly maintained. Water fogging system to be used to minimize water consumption. Ensure that the ambient water quality parameters conform to the norms prescribed by the CPCB in this regard.
  - 2. The core zone of mining activity should be monitored on daily basis. Minimum 4 ambient air quality monitoring stations should be established in the core zone for SPM, PM10, PM2.5, SO2, NOx, and CO monitoring. Location of air quality monitoring stations should be decided based on the meteorological topographical features date. and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board (based on Emission Load Assessment Study). The number of monitoring locations may be more for larger capacity mines and working in larger area. Out of 4 stations, one should be online monitoring station in the mines having more than 3 MTPA EC capacity.
  - 3. Monitoring in buffer zone should be carried out by SPCB or through NABET accredited agency. Air quality parameters (SPM, PM10, PM2.5, SO2, NOx and CO) shall be regularly monitored at locations of nearest human habitation including schools and other public amenities located nearest to source of the dust generation as applicable.
  - 4. Emissions from vehicles as well as heavy machinery should be kept under control and regularly monitored. Measures should be taken for regular maintenance of vehicles used in mining operations and in transportation of mineral.





- 5. The vehicles shall be covered with a tarpaulin and should not be overloaded. Possibility of closed container trucks should be explored for direct to destination movement of iron ore. Air quality monitoring at one location should also be carried out along the transport route within the mine (periodically near truck entry and exit gate)
  - Responsibility: Individual mine lease holders and SPCB
- 19. **Noise and Vibration related:** Project Proponent shall implement the following mitigation measures:
  - 1. Blasting operation should be carried out only during daytime. Controlled blasting such as Nonel, should be practiced. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
  - 2. Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.
  - 3. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone. Date, time and distance of measurement also be indicated with the noise levels in the report. The data should be used to map the noise generation from different activities and efforts should be made to maintain the noise levels with the acceptable levels of CPCB (CPCB, 2000)
  - 4. Vibration at various sensitive locations should be monitored at least once in a month and mapped for any significant changes due to successive mining operations. Responsibility: Individual mine lease holders

- 1. Blasting operations conducted only in day time. Controlled blasting technique is adopted to mitigate ground vibrations and arrest fly rocks.
- 2. Workers are provided with ear plugs in their PPE kit to control, noise that can affect human environment
- 3. Noise zone is monitored regular basis in Core and Buffer Zone.
- Ground vibrations also monitored regularly during blasting record is maintained.

- 20. **Water/wastewater related:** Project Proponent shall 1. implement the following mitigation measures:
  - 1. Mining operations should be restricted to above ground water table, and it should not intersect groundwater table. If enough resources are estimated below the ground water table, the same may be explored after conducting detailed geological studies by GSI and hydrogeological studies by CGWB or NIH or Institute of National repute and ensuring that no damage to the land stability/water aquifer system shall happen. The details/outcome of such study may be reflected/incorporated in the EIA/EMP report of the mine appropriately.
  - 2. Natural watercourse and /or water resources 3.

- As per hydrogeological report the Depth to water at pre-monsoon is at 507 m but we are currently working at BL of 511 m/ There is no seepage
- 2. Natural water course exist with in the lease and water resources is not obstructed due to mining operations. Regular monitoring of upstream and downstream is done at karo river stream
- . Regular monitoring of





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should not be obstructed due to any mining operations. Regular monitoring of the flow rate of the springs and perennial nallas should be carried out and records should be maintained. Regular monitoring of water quality of nallas and river passing through the mine lease area (upstream and downstream locations) should 4. be carried out on monthly basis.

- 3. Regular monitoring of ground water level and its quality should be carried out within the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should 5. be carried out on monthly basis.
- 4. To optimize water requirement, suitable conservation measures to augment ground water resources in the area should be undertaken in consultation with Central Ground Water Board (CGWB)
- 5. Suitable rainwater harvesting measures on long term basis should be planned and implemented in consultation with CGWB, to recharge the ground water source. CGWB can prepare a comprehensive plan for the whole region.
- 6. Appropriate mitigation measures (viz. ETP, 6. STP, garland drains, retaining walls, collection of runoff etc.) should be taken to prevent pollution of nearby river/other water bodies. Water quality monitoring study should be conducted by State Pollution Control Board to ensure quality of surface and ground water sources on regular basis. The study can be conducted through NABL/NABET approved water testing laboratory. The report should be vetted by SPCB.
- 7. Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated in ETP to conform to the discharge standards applicable.
- 8. Oil and grease trap should be installed before 8. discharge of workshop effluents. STP should be installed for the employees/colony, 9. wherever applicable.
- 9. Mine lease holder should ensure that no silt originating due to mining activity is transported in the surface water course or any other water body. Appropriate measures for prevention and control of soil erosion and management of silt should be undertaken. Quantity of silt/soil generated should be measured on regular basis 10. Waste dump is protected for its better utilization.

ground water level is being carried out by piezometers – digital level recorder (piezometer), monitoring is done

- A suitable ground water conservation followed like harvesting rain water in unused pits and part of its getting recharged
- Suitable all rainwater diverted in to unused mine pits, harvesting measures on long term basis will be planned and implemented consultation with CGWB, to recharge the ground water source. CGWB can prepare a comprehensive plan for the whole region.
- **STP** installation is completed and it operational as the current workshop is planned to be shifted outside mine lease ETP will not be required, Water quality reported are submitted to Pollution Control Board six month once
- Industrial **Effluents** sources are wheel wash areas which is planned to shift outside the mine lease
- Oil and grease will be required for ETP alone
- Ensured that no originating due to mining activity is transported in the surface water course or any other water body as the silt is also a material it is been processed
- by providing plantation.



- 10. Erosion from dumps site should be protected by providing geo-textile matting or other suitable material, and thick plantation of native trees and shrubs should be carried out at the dump slopes. Dumps should be protected by retaining walls.
- 11. Trenches/garland drains should be constructed at the foot of dumps to arrest silt from being carried to water bodies. Adequate number of check dams should be constructed across seasonal/perennial nallahs (if any) flowing through the mine lease areas and silt be arrested. De-silting at regular intervals should 12. Mine accumulated water be carried out and quantity should be recorded for its better utilization, after proper soil quality analysis.
- 12. The water so collected in the reservoir within the mine should be utilized for the sprinkling on haul roads, green belt development.
- 13. There should be zero wastewater discharge from the mine. Based on actual water withdrawal and consumption/utilization in different activities, water balance diagram should be prepared on monthly basis and efforts should be made to optimize consumption of water per ton of ore production in successive years.

Responsibility: Individual mine lease holders, SPCB and CGWB

- Retaining wall constructed along the toe of dump. As there is no dump finalized geotextile s not planned when the dumps are finalized will be done
- 11. Trenches/garland drains constructed at the foot of dumps to arrest silt from being carried to water bodies.
- used for water sprinkling purpose.
- 13. There is zero waste water discharge as the water discharged from mine pits is passed through series of settling ponds and then discharged

- Land/soil/overburden related: Project Proponent 1. 21. shall implement the following mitigation measures:
  - 1. The topsoil should be temporarily stored at earmarked site(s) only and it should not be kept unutilized for long (not more than 3 years or as 2. per provisions mentioned in the mine plan/scheme). The topsoil should be used for land reclamation and plantation appropriately.
  - 2. Fodder plots should be developed in the nonmineralised area in lieu of use of grazing land,
  - 3. Overburden/low grade ore should be stacked at earmarked dump site(s) only and should not be kept active for long period. The dump height should be decided on case-to-case basis, depending on the size of the mine and quantity of waste material generated. However, slope 4. stability study should be conducted for larger heights, as per IBM approved mine plan and DGMS guidelines. The OB dump should be scientifically vegetated with suitable native species to prevent erosion and surface run-off.

- Top soil not available in mine as all the area are already mined previous lease
- There is no non mineralized area in the mine lease
- Overburden is dumped on the active dumps and stability slope conducted every month. The Ob dumps will be scientifically vegetated using geo-textiles once the dump finalized
- Garland drains and settling ponds are constructed to arrest silt and sediment, Drains are constructed for mine pit, dumps etc and before





In critical areas, use of geo-textiles should be taken for stabilization of dump. Monitoring and 5. management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Proper records should be maintained regarding species, their growth, area coverage etc.

- 4. Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine operation, soil, OB and mineral dumps. The water so collected can be utilized for watering the mine area, roads, green belt development etc. The drains should 6. be regularly de-silted, particularly after monsoon and should be maintained properly. Appropriate documents should be maintained. Garland drains of appropriate size, gradient and length should be constructed for mine pit, soil. OB and mineral dumps and sump capacity should be designed with appropriate safety margin based on long term rainfall data. Sump capacity should be provided for adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and de-silted at regular intervals.
- 5. Backfilling should be done as per approved mining plan/scheme. There should be no OB dumps outside the mine lease area. The backfilled area should be afforested, aiming to restore the normal ground level. Monitoring and management of rehabilitated areas should continue till the vegetation is established and becomes self-generating.
- 6. Hazardous waste such as waste oil, lubricants, resin, and coal tar etc. should be disposed of as per provisions of Hazardous Waste Management Rules, 2016, as amended from time to time. Responsibility: Individual mine lease holders

- monsoon
- S. Backfilling will be done as per approved mining plan/scheme. There is no OB dumps outside the mine lease area. The backfilled area will be afforested, aiming to restore the normal ground level as there is no backfilling area during the reporting period
- 6. Hazardous waste such as.
  Used oil generated is disposed of as per provisions of Hazardous Waste Management Rules, 2016,

- 22. **Ecology/Biodiversity (Flora-Fauna) Related:**Project Proponent shall implement the following mitigation measures:
  - 1. All precautionary measures should be taken during mining operation for conservation and protection of endangered fauna namely elephant, sloth bear etc. spotted in the study area. Action plan for conservation of flora and fauna should be prepared and implemented in consultation with the State Forest and Wildlife Department within the mine lease area, whereas outside the mine lease area, the same should be
- 1. Projects are taken as per Biodiversity Management plan. However, a site specific conservation plan was submitted by previous lessee
- 2. Plantation is done within the lease to promote biodiversity according to mining plan yearly plantation is carried out,





- maintained by State Forest Department. 2. Afforestation is to be done by using local and mixed species saplings within and outside the mining lease area. The reclamation and afforestation are to be done in such a manner like exploring the growth of fruit bearing trees which will attract the fauna and thus maintaining the biodiversity of the area. As afforestation done so far is very less, forest department needs to identify adequate land and do afforestation by involving local people in a time bound manner.
- 3. Green Belt development carried out by mines should be monitored regularly in every season and parameters like area under vegetation/plantation, type of plantation, type of tree species/grass species/scrubs etc., distance between the plants and survival rate should be recorded.
- 4. Green Belt is an important sink of air pollutants including noise, development of green cover in mining area will not only help reducing air and noise pollution but also will help improve the ecological conditions and prevent soil erosion to a greater extent. Further, selection of tree species for green belt should constitute dust removal/dust capturing plants since plants can act as efficient biological filters removing significant amounts of particulate pollution. Thus, the identified native trees in the mine area maybe encouraged for plantation. Tree species have small leaf area, dense hair on leaf surface (rough surface), deep channels on leaves should be included for plantation.
- 5. Vetiver plantation on inactive dumps may be encouraged as the grass species has high strength of anchoring besides medicinal value.
- 6. Details of compensatory afforestation done should be recorded and documented by respective forest divisions, and State Forest Department should present mine-wise annual status, along with mine-wise annual status, along with expenditure details. Responsibility: Individual mine lease holders and State Forest & Wildlife Department.

- local species like Jamun and medicinal values species like Neem etc are planted
- 3. Green belt is monitored regularly based on survival rate
- 4. Green belt is done inactive dumps and also planned further when the dumps gets finalized and also plantation is done at safety zones that act as barrier for noisr, light and reduce emission
- 5. As dumps are not finalized dumps are in working stage once finalized it will be complied 6. Full co-operation is given to Forest division

- 23. Socio-economic related: 1.

  Project Proponent shall implement the following mitigation measures:
  - i) Public interaction should be done on regular basis and social welfare activities should be done to meet the requirements of the local communities. Further, basic amenities and infrastructure facilities like education, medical, roads, safe drinking water, sanitation, employment, skill development, training institute, etc should be developed to alleviate the quality of life of the people of the region.

    ii) Land outees and land losers/affected people, if any,
- Being complied. For holistic community development, various community development initiatives such us health care support, children wellbeing & education, Water & Sanitation, Skilling & Livelihood initiatives, community asset creation etc has been carried out.from





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should be compensated and rehabilitated as per the national/state policy on Resettlement and Rehabilitation.

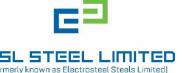
- iii) The socio-economic development in the region focused and aligned should guidelines/initiatives of Govt. Of India/NITI Aayog around prosperity, equality, justice, cleanliness, transparency, employment, respect to women, hope, etc. This can be achieved by providing adequate and quality facilities for education, medical and developing skills in the people of the region. District administration in association with mine lease holders should plan for "Samagra Vikas" of these blocks as well as other blocks of the district. While planning for different schemes in the region, the activities should be prioritized as per Pradhan Mantri Khanij Kshetra Kalyan Yojna (PMKKKY) notified by Ministry of Mines, Govt. Of India, vide letter no. 16/7/2017-M.VI dated September 16. Responsibility: District Administration and Individual Mine Lease Holders
- since operation of the mines. Need based assessment survey has been completed and action plan is under implementation for community upliftment.
- Not applicable as there is no affected people of land losers so compensation was not required
- 3. Complied as per the statutory guidelines.

- 24. **Transport** Road **Related:** 1) Project Proponent shall implement the following mitigation measures: i) All the mine lease holders should follow the suggested ore transport mode (SOTM), based on its EC within capacity next ii) The mine lease holders should ensure construction of cement road of appropriate width from and to the entry and exit gate of the mine. Further, maintenance 2) of all the roads should be carried out as per requirement ensure dust free road transport. iii) Transportation of ore should be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore/dust takes place. Further, air quality in terms of dust, PM10 should be monitored near the roads towards entry and exit gate on regular 3) basis and be maintained within acceptable limits. Responsibility: Individual Mine Lease Holders and
- hence we have to depend on Road Transport for most volumes. Out of entire capacity of dispatch 15 % is rail transport and rest is road transport
  - 2) Construction of Cement road is done at the exit gate of the mine maintenance of the road is done by sprinkling water for dust suppression
  - B) Transportation of ore is done by truck covered by tarpaulin and Ambient Air monitoring is done ta exit gate
- **Occupational** 25. Health **Related:** 1. Project Proponent shall implement the following mitigation measures: i) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects periodically. ii) Occupational health surveillance program for all the

Dept. of Steel and Mines

- Personnel working in the mine are provided protective respiratory devices and are made educated on safety and health aspects periodically by in house training.
- employees/workers (including casual workers) should 2. OHS programme of the





be undertaken periodically (on annual basis) to observe any changes due to exposure to dust, and corrective measures should be taken immediately, if needed. iii) Occupational health and safety measures related awareness programs including identification of work- \( \beta \). related health hazard, training on malaria eradication, HIV and health effects on exposure to mineral dust, etc should be carried out for all the workers on regular basis. A full-time qualified doctor should be engaged for the purpose. Periodic monitoring (on 6 monthly basis) for exposure to respirable minerals dust on the workers should be conducted and record should be maintained, including health record of all the workers. Review of impact of various health measures undertaken (at an interval of 3 years or less) should be conducted followed by follow-up of actions, wherever required. Occupational health centre should be mine established near site itself. Responsibility: Individual mine lease holders and District Administration (District Medical Officer)

workers are undertaken periodically by team of professional doctors engaged.

3. Periodical health monitoring is done by doctor through conducting health camps every month. Dispensary was set up with qualified doctor and paramedical staff

Sr.	Standard Conditions	Status
No.		
I.	Statutory Compliance	
1)	This Environment Clearance (EC) is subject to orders/judgement 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.	Implemented by Govt of Odisha
2)	This EC is valid upto 31.03.2071 as the lease validity is valid upto 31 <sup>st</sup> March 2071 as per the Ammended MMDR Act, 2015	Noted it will be complied
3)	The Project Proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated August 2 <sup>nd</sup> , 2017, in Writ Petition (Civil) no. 114 of 2014 in matter of Common Cause versus Union of India and Ors. before commencing the mining operations.	Complied and all the statutory documents are renewed on timely basis
4)	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining and Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2 <sup>nd</sup> August 2017 in Writ Petition (Civil) no. 114 of 2014 in matter of Common Cause versus Union of India and Ors.	The mining operation does not have any compensation and hence mining operation is started
5)	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC after the recommendations of the Standing Committee of National Board for	Complied by the lessee





	transforming elements	(Formerly known as Electrosteel Steels Limited)
	Wildlife, if applicable to the Project.	
6)	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.	Complied by the lessee
7)	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.	CTO obtained by the PP
8)	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development and 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.	Mines Act and MMDR act is adhered and various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
9)	The Project Proponent shall obtain consents from all the concerned landowners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.	The mine was got from auction hence there is no concerned landowner vesting order is there
10)	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 <sup>th</sup> October, 2014, titled "Impact of Mining activities on Habitations- Issues related to the Mining Projects wherein Habitations and villages are the part of mine lease areas in Habitations and villages are surrounded by the mine lease area."	According to the memorandum best mining practices are adopted as per approved mining plan, no water bodies are not disturbed, illuminance and noise level are within the limit during night hours, during blasting vibration study is made as there is no permanent haul road it is not feasible for fixed water sprinklers instead mobile water tankers are used, transportation is carried on bypass roads
11)	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	Permission from CGWA in under process, applied for renewal
12)	A copy of EC letter will be marked to concerned Panchayat/local NGO etc. if any, from whom suggestion/representation has been received while processing the proposal.	Complied by the previous lease
13)	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's Office for 30 days	Complied by the state govt
14)	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	Complied by previous lease





	if distorning elements	[Formerly known as Electrosteel Steels Limited]
	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 website 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	
15\	Office for compliance and record.	A
15)	PP shall inform the MoEF&CC for any change in	As we are operating with the vesting
	ownership of the mining lease. In case there is any	order Change of ownership is in
	change in ownership or mining lease is transferred than	progress
	mining operation shall only be carried out after transfer	
	of EC as per provisions of the para 11 of EIA	
TT	notification, 2006 as amended from time to time.	
II.	Air quality monitoring and preservation	Cinco managed to the mineric managed to the
16)	The Project Proponent shall install a minimum of 3	Since presently the mine is producing
	online Ambient Air Quality Monitoring Stations with	less than 3 MPTA iron ore per annum,
	1 in upwind and 2 in downwind direction based on long	we are carry out ambient air
	term climatological data about wind direction such that an angle of 120 degrees is made between the	monitoring through manual sampling mode.
	monitoring locations to monitor critical parameters,	As per renewed CTO
	relevant for mining operations, of air pollution viz.	recommendation one CAAQMS is
	PM10, PM2.5, NO2, CO and SO2 etc. as per the	enough for the mine. CAAQMS
	methodology mentioned in NAAQS Notification No.	installation on process and it will
	B-29016/20/90/PCI/I dated 18.11.2009 covering the	completed in FY 24-25
	aspects of transportation and use of heavy machinery	
	in the impact zone. The ambient air quality shall also	
	be monitored at prominent places like office building,	
	canteen etc. as per the site condition to ascertain the	
	exposure characteristics at specific places. The above	
	data shall be digitally displayed within 03 months in	
	front of the main gate of the mine site.	
17)	Effective safeguard measures for prevention of dust	For prevention of dust generation and
	generation and subsequent suppression (like regular	subsequent suppression water
	water sprinkling, metalled road construction etc.) shall	sprinkling is be carried out in areas
	be carried out in areas prone to air pollution wherein	prone to air pollution where in high
	high levels of PM10 and PM2.5 are evident such as	level of pm10 and pm 2.5 are evident
	haul road, loading and unloading point and transfer	and dry mist canon system in installed
	points. The fugitive dust emissions from all sources	dry fog system is also installed to
	shall be regularly controlled by installation of required	reduce water consumption with dust
	equipment/machineries and preventive maintenance.	suppression
	Use of suitable water-soluble chemical dust	
	suppressing agents may be explored for better	
	effectiveness of dust control system. It shall be ensured	
	air pollution level conform to the standards prescribed	
TTT	by the MoEFF/Central Pollution Control Board.	
III.	Water quality monitoring and preservation	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18)	In case, immediate mining scheme envisages	As per hydrogeological report the
	intersection of ground water table, then Environmental	Depth to water at pre-monsoon is at
	Clearance shall become operational only after	507 m but we are currently working at
	receiving formal clearance from CGWA. In case,	BL of 511 m/ There is no seepage





	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 hydrogeological study of the area.	
19)	Regular monitoring of the flow rate of the springs and	The natural water bodies or streams
	perennial nallahs flowing in and around the mine lease	are not disturbed. The ground water
	shall be carried out and records maintained. The	table is monitored by Digital water
	natural waterbodies and or streams which are flowing	level recorder (piezometer). Till now
	in and around the village, should not be disturbed. The	there is no water scarcity recorded in
	Water Table should be nurtured so as not to go down	the area
	below the pre-mining period. In case of any water	
	scarcity in the area, the PP has to provide water to the	
	villagers for their use. A provision for regular	
	monitoring of water table in open dug wall located in	
	village should be incorporated to ascertain the impact	
	of mining over ground water table. The Report on	
	changes in Ground Water level and quality shall be	
	submitted on 6-monthly basis to the Regional Office of	
	the Ministry, CGWA and State Groundwater	
	Department/State Pollution Control Board.	
20)	The Project Proponent shall regularly monitor and	Complied as per CGWA conditions.
20)	maintain records wrt ground water level and quality in	The ground water level is recorded by
	and around the mine lease by establishing a network of	Digital water level recorder
	existing wells as well as new piezometer installations	(piezometers) system inside the mine
	during the mining operations in consultation with	premises
	Central Ground Water Authority/ State Ground Water	premises
	Department. The Report on changes in Ground water	
	level and quality shall be submitted on 6-monthy basis	
	to the Regional Office of the Ministry, CGWA and	
	State Groundwater Department/ State Pollution	
	Control Board.	
21)	The PP shall undertake regular monitoring of natural	The Karo river water at upstream and
21)	water course/water resources/springs and perennial	downstream is monitored on monthly
	nallahs existing/flowing in and around the mine lease	basis and reports are attached as per
	and maintain its records. The project proponent shall	Annexure 1 as Karo river is adjacent
	undertake regular monitoring of water quality	to the mine and ground water is also
	upstream and downstream of water bodies passing	monitored monthly once as per CPCB
	·	guidelines
	within and nearby/adjacent to the mine lease and	guidennes
	maintain its records. Sufficient number of gullies shall	
	be provided at appropriate places within the lease for	
	management of water. PP shall carry out regular	
	monitoring wrt pH and include their water quality vis-	
	à-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	
	MoEFCC. 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	





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22)	(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 6-monthly basis.  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	Maintained and water quality monitored regularly, TSS, TDS, pH, COD, BOD and other parameters are monitored
	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-20012/1/2000-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	Monitoring data also shared SPCB and MOEFCC.
23)	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment groundwater 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.	Existing non-working pits are used as a Rainwater harvesting measures to recharge the ground water.
24)	Industrial wastewater (workshop and wastewater 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 CTO and issued by SPCB. The workshop effluent shall be treated after its initial passage through oil and grease trap.	Industrial workshop which was previously inside the mine lease is planned to shift outside the lease
25)	The water balance/water auditing shall be carried out and measured for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEFF&CC and State Pollution Control Board/Committee.	Action plan and taken for reduing water consumption, monthly MIS is tracked for water consumption
IV.	Noise and vibration monitoring and prevention	
26)	The peak particle velocity at 500m distance or within	PPV at a 500m distance or within the
	the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines	nearest habitation is maintained as per DGMS Guideline.
27)	The illumination and sound at night at project sites	Complied as per DGMS standard and
	disturb the villages in respect to both human and	noise monitoring is done monthly
	animal population. Consequent sleeping disorders and	once the value is under the limit
	stress may affect the health in the villages located close	prescribed by SPCB/ All the lights
	to mining operations. Habitations have a right for	which are installed in the mine are
	darkness and minimal noise levels at night. PPs must	focused towards working mine pit
	ensure that the biological clock of the villages is not	hence it does not reach to the village





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	disturbed; by orienting the floodlights/masks away	side
	from the villagers and keeping the noise levels well	
	within the prescribed limits for day/night hours.	
28)	The PP shall take measures for control of noise levels	Necessary precautions is in place to
20)	below 85 dbA in the work environment. The workers	prevent the noise pollution, workers
	engaged in operations of HEMM, etc should be	are provided with ear plugs in PPE kit
	provided with ear plugs/muffs. All personnel including	and also saplings are planted in safety
	laborers working in dusty areas shall be provided with	zone area as a barrier
	protective respiratory devices along with adequate	
	training, awareness and information on safety and	
	health aspects. The PP shall be held responsible in case	
	it has been found that workers/personnels/labourers are	
	working without personal protective equipment.	
V.	Mining Plan	
29)	PP shall adhere to the working parameters of mining	Complied as per Approved Mining
	plan which was submitted at the time of EC appraisal	Plan issued by the IBM,
	wherein year-wise plan was mentioned for total	Bhubaneswar. No change has been
	excavation i.e. quantum of mineral, waste, overburden,	made in bais mining proposal like
	interburden and topsoil, etc. No change in basic mining	mining technology, excavation, waste
	proposal like mining technology, total excavation,	production production
		production
	mineral and waste production, lease area and scope of	
	working, viz. method of mining, overburden and dump	
	management, OB and dump mining, mineral	
	transportation mode, ultimate depth of mining etc.)	
	shall not be carried out without prior approval of	
	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.	
30)	The PP shall get the Final Mine Closure Plan along	Will be complied during mine closure
ŕ	with Financial Assurance approved from Indian	-
	Bureau of Mines/ Department of Mining and Geology	by the IBM, Bhubaneswar under the
	as required under the provision of the MMDR Act,	provision of MMDR ACT 1957
	1957 and Rules/Guidelines made there under. A copy	F
	of approved mine closure plan shall be submitted	
	within 2 months of the approval of the same from the	
	competent authority to the Regional Office of the	
	Ministry of Environment, Forest and Climate Change	
	for record and verification.	
21)		The land was of the min-1
31)	The land use of the mine lease area at various stages of	The land use of the mine lease area at
	mining scheme as well as the end of life shall be	various stages of mining scheme as
	governed as per the approved Mining Plan. The	well as the end of life is governed as
	excavation vis-à-vis backfilling in the mine lease area	per the approved Mining Plan. The
	and corresponding afforestation to be raised in the	excavation vis-à-vis backfilling in the
	reclaimed area shall be governed as per approved	mine lease area and corresponding
	mining plan. PP shall ensure the monitoring and	afforestation is raised in the reclaimed
	management of rehabilitated areas until the vegetation	area is governed as per approved
	becomes self-sustaining. The compliance status shall	mining plan.
	be submitted half-yearly to the MoEFCC and its	
	concerned Regional Office.	
<u> </u>	TOMOTIMO REGIONAL OTHER.	





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9	transforming elements	(Formerly known as Electrosteel Steels Limited)
32)	The O.B. generated during the mining operations shall	The O.B. generated during the mining
	be stacked at earmarked OB dump site(s) only and it	operations is stacked at OB dump.
	should not be kept active for a long period of time. The	The physical parameters of the OB
	physical parameters of the OB dumps like height,	dumps like height, width and angle of
	width and angle of slope shall be governed as per the	slope is governed as per the approved
	approved Mining Plan as per the guidelines/circulars	Mining Plan as per the
	issued by DGMS wrt safety in mining operations shall	guidelines/circulars issued by DGMS
	be strictly adhered to maintain the stability of	wrt safety in mining operations is
	topsoil/OB dumps. The topsoil shall be used for land	adhered to maintain the stability of OB
	reclamation and plantation.	dumps.
33)	The reject/waste generated during the mining	The waste / reject generated is stacked
	operations shall be stacked at earmarked waste dump	at waste dump and physical parameter
	site(s) only. The physical parameters of the waste	like height, width and angle of slope is
	dumps like height, width and angle of slope shall be	maintained as per DGMS
	governed as per the approved Mining Plan as per the	
	guidelines/circulars issued DGMS w.r.t. safety in	
	mining operations shall be strictly adhered to maintain	
	the stability of waste dumps.	
34)	The reclamation of waste dump sites shall be done in	As the dumps are not finalized they are
	scientific manner as per the Approved Mining Plan	active dumps hence it is on process
25)	cum Progressive Mine Closure Plan	A .1 1
35)	The slope of dumps shall be vegetated in scientific	As the dumps are not finalized they are
	manner with suitable native species to maintain the	active dumps once it is not finalized it
	slope stability, prevent erosion and surface run off. The	will be vegetated in scientific manner
	selection of local species regulates local climatic	of local species, once the dumps are
	parameters and help in adaptation of plant species to	not finalized laying of geo-textile will be done
	the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall	be done
	stability of dumps. The dump mass should be	
	consolidated with the help of dozers/compactors	
	thereby ensuring proper filling/levelling of dump	
	mass. In critical areas, use of geo textiles/geo	
	membranes/ clay liners/ bentonite etc. shall be	
	undertaken for stabilization of the dump.	
36)	The PP shall carry out slope stability study in case the	Slope stability test is conducted every
	dump height is more than 30 m. The slope stability	month and it is reported
	report shall be submitted to concerned regional office	The second secon
	of MoEF&CC.	
37)	Catch drains, settling tanks and siltation ponds of	Settling ponds and check dams are
,	appropriate size shall be constructed around the mine	constructed along with retaining wall
	working, mine yards and topsoil/OB/waste dumps to	at toe of dump and garland drain at
	prevent runoff of water and flow of sediments directly	benches to prevent run off water and
	into the water bodies (nallah/river/pond etc.). The	collected in pits to be reused
	collected water should be utilized for watering the	
	mine area, roads, green belt development, plantation	
	etc. The drains/sedimentation sumps etc. shall be de-	
	silted regularly, particularly after monsoon season, and	
	maintained properly.	
38)	Check dams of appropriate size, gradient and length	Check dams are in place and every
	shall be constructed around mine pit and OB dumps to	pre-monsoon the check dam, settling
	prevent storm run-off and sediment flow into adjoining	ponds are disilted and maintained





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	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 thereby allowing proper settling of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.	regularly
39)	The topsoil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the topsoil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS wrt safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	As there is no top soil because it is a brownfield mine as the top soil is handled by previous lease
VII.	Transportation	
40)	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 m) 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 increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	Transportation of mineral is done on bypass roads there is no roads passing though village / habitations. Vehicular emissions is kept under control and regularly monitored of Pollution Under Control (PUC) certificate and also water sprinkling is done in mine and exit gate for dust supppresiion
41)	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 tankermounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards, etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be	As there is no permanent haul road in the mine it is not feasible for fixed haul sprinklers, water is sprinkled via mobile tankers and areas like crushing plants are provided with sprinkling system





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	installed at crushers, belt conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to	
	avoid generation of fugitive dust emissions.	
VIII.	Green Belt	
42)	The Project Proponent shall develop Green Belt in 7.5m wide safety zone all along. The mine lease boundary as per the guidelines of CPCB to arrest pollution emanating from mining operations within the lease. The whole green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of green belt shall be governed as per the EC granted by the Ministry irrespective of the stimulation made in approved mine plan.	The Project Proponent has already developed Green Belt in 7.5m wide safety zone all along the lease.
43)	The PP 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 regard shall also be adhered. The density of the trees should be around 2500 saplings per Ha. Adequate budgetary provision shall be made for protection and care of trees.	Plantation and afforestation proposal conducted as per Approved Mining Plan and CTO conditions in mining lease area, along the roadside of community and density is also maintained
44)	The PP shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Govt. In this regard, the PP 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.	There was no gazing land that was in the mine lease if any is instructed from State Government co-operation will be provided
45)	The PP 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.	Will take necessary precautions to preserve the endangered flora and fauna and schedule-I species during mining operations.
46)	And implemented in consultation with the State Forest and Wildlife Department. A copy of wildlife conservation plan and its implementation status (annual) shall be submitted to the Regional Office of	Submitted by the earlier lessee.





	transforming elements	(Formerly known as Electrosteel Steels Limit
	the Ministry.	
IX.	Public Hearing and Human Health Issues	
47)	The PP shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination	Appoint a doctor for Regular as well as Periodical medical
	of the workers engaged in the mining activities, as per	examination of the workers
	the DGMS guidelines. The records shall be maintained	engaged in the mining
	properly. PP shall also carry out Occupational Health check-ups in respect of workers who have ailments like	activities, as per the DGMS guidelines. The records is
	BP, diabetes, habitual smoking, etc. The check-ups	maintained properly also
	shall be undertaken once in six months and necessary	carried out Occupational
	remedial/preventive measures be taken. A status report on the same day be sent to MoEFCC Regional Office	Health check-ups in respect of workers by Health camps
	and DGMS on half-early basis.	of workers by Health Camps
48)	The PP must demonstrate commitment to work	PP works towards zero harm
,	towards 'Zero Harm' from their mining activities and	by identification of various
	carry out HIRA for identification of workplace hazards	hazards of each and every
	and assess their potential risks to health and determine appropriate control measures to protect the health and	activity by HIRA and their severity is analysed and
	wellbeing of workers and nearby community. The	action plan was made. HIRA
	Proponent shall maintain accurate and systematic	for Occupational health
	records of the HRA. The HRA for neighbourhood has	which focuses on infections
	to focus on public health problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children	and activity that affect health. Awareness is created
	under 5 years, respiratory infections due to bio mass	to nearby community on
	cooking. The Proponent shall also create awareness	sanitation, Personal hygiene
	and educate the nearby community and workers for	
	Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women health and hygiene	
	(providing sanitary napkins), hazard of tobacco and	
	alcohol use. The Proponent shall carryout baseline	
	HRA for all the category of workers and thereafter every 5 years.	
49)	The Proponent shall carry out Occupational Health	Occupational health
.,	surveillance which be a part of HRA and include	surveillance is done by heath
	Biological monitoring where practical and feasible,	camps
	and then the tests and investigations relevant to the exposure (e.g. for dust a X-Ray chest; for nose	
	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 infection 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 results of physical examination and tests.	
	The record of exposure due to materials like Asbetos,	
	Hard Rock Mining, Silica, Gold, Kaolin, Aluminium,	
	Iron, Manganese, Chromium, Lead, Uranium needs to	
	be handed over to the Mining department of the State	





	transforming elements	(Formerly known as Electrosteel Steels Limit
	in case the life of the mine is less than 30 years. It	
	would be obligatory for the State Mines Departments	
	to decide 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 (17x14 inches and of	
	good quality).	
X.	Corporate Environment Responsibility (CER)	
54)	The activities and budget earmarked for CER as per	Complied by the previous
	Ministry's O.M No. 22-65/2017-IA. II (M) dated	lessee
	01.05.2018 or as proposed by EAC should be kept 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 and longitude of infrastructure	
	developed and road constructed needs to be submitted	
	to Regional Office MoEF&CC annually along with	
	audited statement.	
55)	PP shall keep the funds earmarked for environmental	Annual Budget kept for
	protection measures in a separate account and refrain	environmental protection
	from diverting the same for other purposes. The year	measures and also tracking
	wise expenditure of such funds should be reported to	system in place to track the
	the MoEFCC and its concerned Regional Office.	amount spent
XI.	<u>Miscellaneous</u>	
56)	The Project Proponent shall prepare digital map (land	complied
	use and land cover) of the entire lease area once in 5	
	years purpose of monitoring land use pattern and	
	submit a report to concerned regional office of the	
	MOEF&CC.	
57)	The Project Authorities should inform to the Regional	Will be complied when it
	Office regarding date of financial closures and final	will require.
	approval of the project by the concerned authorities	
	and the date of start of land development work.	
58)	The PP shall submit 6 monthly compliance reports on	Complied previous report
	the status of the implementation of the stipulated	was submitted on 12.12.2023
	environmental safeguards to the MoEF&CC and its	
	concerned regional office, CPCB and SPCB.	
59)	A separate 'Environmental Management Cell' with	Environmental management
	suitable qualified manpower should be set-up under the	cell is already constructed by
	control of a Senior Executive. The Senior Executive	the site.
	shall report directly to Head of the Organization.	
	Adequate number of qualified Environmental	
	Scientists and Mining Engineers shall be appointed and	
	submit a report to RO, MoEFCC.	
60)	The concerned Regional office of the MoEFCC shall	Noted full co-operation will
	randomly monitor compliance of the stipulated	be given to the authorities
1		
	conditions. The Project authorities should extend full	





## **Annexures:**

- 1. Copy of Environmental monitoring report
- 2. Copy of vesting order



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Callected By:

Sample Description:

Project:

Locations

Latitude:

DMSPL/AA/NIO/01-08

DMSPL Representative

Near Mine Office (A1)

Mix Nadidih Iron Ore Mines.

Under ESL Steel Limited, (HICO)

At Nadidili, PO - Keira

Distr. Sundargarh, Odisha India.

Ambient Air Quality Munitoring

Report No: Reporting Date:

Ref. No:

DMSPL/AA/BIC/2310/001-008

06/11/2023

NIL

Monitoring Period:

1" Oct. 2023 to 31" Oct. 2023 RDS & FPS with all accessories

Equipment Used: Protocol Used:

18-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter Nadidih Iron Ore Mines

Customer Name: Sample Condition

Good/Clear 85" 15'33" E

21" 58'09" N

Longitude:

### RESULTS

Date	PM <sub>(#</sub> (µg/m <sup>3</sup> )	PN(25 (μg/m²)	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m²)	CO (mg/m3)
02.10.2023	75.3	31.4	17.9	33.2	0.47
03.10.2023	76.5	35,4	18.2	25.3	0.48
09.10.2023	68,4	36.7	193	37.3	0.63
10.10.2023	75.3:	35.2	374	25.3	0.43
16.10.2023	68.3	36.2	18.5	27.2	0.46
17.10.2023	75.9	27.9	17.2	28.2	0.53
23.10.2023	76.2	35.8	18-3	22.9	0.52
24,10,2025	68.9	36.2	19.3	24.3	0.54
30.10.2023	75.2	39.3	183	22.1	0.52
31.10.2023	68.9	359	18.5	27,8	0.54

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (μg/m <sup>3</sup> )	PM <sub>1,1</sub> (µg/m <sup>2</sup> )	80 <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>4</sup> )	CO (mg/m²)
	2.5	100	60	80	80	4
	Method of Analysis	IS 5182 (Part - 23)	18 5182 (Part - 24)	15 5182 (Part - 2)	18 5182 (Part – 6)	1S 5182 (Part - 10)

National Ambient Air Quality Standards

\*\*End of Test Report\*\*

Checked By)

(Approved By)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/N10/09-16

M/s Nadidily from Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2310/009-016

06/11/2023

Ref. No.

NH-

Monitoring Period: Equipment Used: 1" Oct. 2023 to 31" Oct. 2023 RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required; Customer Name: As per EC Letter Nadidih Iron Ore Mines

Sample Condition Longitude: Good/Clear 85° 15'44" E

Sample Coffected By: Sample Description: Location:

Location: Latitude: Ambient Air Quality Monitoring Near Mines Gate (A2)

DMSPL Representative

21° 58'23" N

#### RESULTS

Date	PN(2) (pg/m²)	PM).s (ng/m²)	SO <sub>2</sub> (ng/m <sup>2</sup> )	NO <sub>2</sub> (ng/m <sup>3</sup> )	CO (mg/m3
02.10.2823	86.9	45.5	19.8	32.5	0.72
93.10.2023	84.7	45:2	18.7	28.4	0.95
09.10.2023	86.2	38.3	16.9	25.7	0.88
10.10.2023	76.9	45.4	17.3	32.5	0.84
16,10,2023	81.4	37.3	10.2	25.6	0.90
17:10/2023	84.5	47.4	15.6	24.5	0.93
23,10,2023	75.3	45.9	18.3	26.7	0.90
24,10,2023	91.4	37.1	17.5	25.7	0.93
30,10.2023	85.0	39.6	18.3	25.9	0.98
31.10.2023	86.7	47.5	16.8	24.6	0.91

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>25</sub> (ng/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (jrg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
	==	300	60	80	80	4
	Method of Analysis	1S 5182 (Part - 23)	IS 5182 (Part - 24)	(Fart - 2)	15 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.



"End of Test Report"

(Approved By)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Not

Name & Address of the

Project:

DMSPL/AA/NIO/17-24

Mr. Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO-Koira

DMSPL Representative

Distr. Sundargarb, Odisha India.

Report No:

Ref. No.

Reporting Date:

DMSPL/AA/BIC/2310/017-024

06/11/2023

NIL

Monitoring Period: Equipment Used: Prutocol Used:

1" Oct. 2023 to 31" Oct. 2023 RDS & FPS with all accessories 18-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter Nashidih Iron Ore Mines

Sample Condition Longitude:

Good/Clear 85° 16"14" E

Sumple Collected By: Sample Description:

Location: Lutitude:

Ambient Air Quality Monitoring Village - Kenduhidi (A3)

21" 59'45" N

RESULTS

Date	PM <sub>10</sub> (ag/m <sup>3</sup> )	PM <sub>3.8</sub> (µg/m <sup>2</sup> )	SO <sub>1</sub> (µB(m <sup>1</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m3
02.10.2023	75.7	43.2	94	17.5	0.73
03.10.2023	74.6	38.5	8.2	16.4	0.85
09.10.2023	68.9	37.2	8.5	15.2	0.77
10.10.2023	75.2	36.4	8.7	195	0.82
16.10.2023	76A	29.3	8.5	18.7	0.81
17.10.2023	85.4	28.9	7.8	17.5	0.79
23.10.2023	76.7	37.6	7.9	173:	0.74
24.10.2023	68.9	38.0	9.7	19.7	0.82
30.10.2023	68.2	37.4	.0.7	18.7	0.85
31,10.2023	70,5	3631	8.6	18.6	0.79

Limit as per NAAQS*	Parameter	PM <sub>18</sub> (rg/m <sup>2</sup> )	PM <sub>1.8</sub> (µg/m <sup>2</sup> )	SO <sub>2</sub> (µg/m <sup>4</sup> )	NO <sub>2</sub> (µg/m <sup>2</sup> )	(mg/m³)
	(99)	100	60	80	80	4
	Method of Analysis	18 5182 (Part - 23)	15 5182 (Part - 24)	15 5182 (Part - 2)	18 5182 (Part - 5)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*

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(Checked By)



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/25-32

Ma Nadidik Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distt. Sundargurb, Odisha India.

Reporting Date:

Protocol Used:

Report No:

DMSPL/AA/BIC/2310/025-032

06/11/2023 NIL.

Ref. No:

Monitoring Period: Equipment Used:

1" Oct. 2023 to 31" Oct. 2023

RDS & FPS with all accessories 18-5182 & CPCB Guidelines

Sample Collected By: Sample Description:

Locations Latitude: DMSP1. Representative

Ambient Air Quality Monitoring

Village Badipada (A4)

21" 58'04" N

Parameter Required:

Customer Name: Sample Condition

Longitude:

As per EC Letter Nadidill Iron Ore Mines.

Good/Clear 85° 18'33" E

### RESULTS

Date	(pag/m²)	PM <sub>+</sub> , (ug/m <sup>2</sup> )	8O <sub>1</sub> (µg/m <sup>2</sup> )	NO <sub>1</sub> (arg/m <sup>3</sup> )	(mg/m3)
84.18.2023	57.3	24.5	5.5	10.7	0.32
95.19.2023	66.2	31.6	53	10.6	0,41
11.10.2023	56.5	253	5/4	11.6	0.39
12,10.2023	49.0	226	fr.S	11.3	0.42
18.10,2023	56.5	28.8	5.6	11.3	0.44
19.10.2023	53.2	25.9	55	10.6	0.41
25.10.2023	55%	24.4	6.8	I1.5	0.43
26.10.2023	65.9	28.4	5.1	11.3	0/45

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (ug/m <sup>3</sup> )	PM <sub>LS</sub> (ag/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m²)	(mg/m <sup>2</sup> )
	140.	100	60	80	80	4
	Method of Analysis	18-5182 (Part - 23)	1S 5182 (Part - 24)	15 5182 (Part - 2)	1S 5182 (Part - 6)	15 51N2 (Part - 10)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Nov.

Name & Address of the

Project:

DMSPL/AA/NTO/33-40

Mix Nadidih Iron Ove Mines. Umfer ESL Styel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sondargarh, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2310/033-040

06/11/2023

Ref. No: NIL

Manitoring Period: Equipment Used:

1" Oct. 2023 to 31" Oct. 2023 RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

Protocol Used:

As per EC Letter:

Sample Collected By: Sample Description:

Locations

Latitude:

DMSPL Representative

Ambient Air Quality Munituring

Village Jhirapani (AS)

21" 59'58" N

Parameter Required: Customer Name: Sample Condition

Nadidih Iron Ore Mines Good/Clear

Longitude:

85" 13'10" E

#### RESULTS

Date	PM <sub>10</sub> (ag/m <sup>3</sup> )	I <sup>a</sup> M <sub>2,6</sub> (pig/m <sup>2</sup> )	\$() (µg/m²)	NO <sub>2</sub> (ug/m <sup>2</sup> )	CO (mg/m3)
04.10.2023	55.6	248	5/1	173	0.33
05.10.2023	64.6	25.7	7,2	11.6	0.45
11.10.2023	57.8	282	7.4	12.6	0.37
12.10.2023	65.7	295	5:3	11.5	0.33
18.10.2023	57.8	30.6	5.8	10.8	0.46
19.10.2023	54:3	28.2	7.6	10.5	0.43
25.10.2023	61.6	29.9	9.2	11.0	0.45
26.10.2023	58.9	30,9	5.6	21.4	0.42

*	Parameter	PM <sub>10</sub> (μg/m <sup>2</sup> )	PM <sub>3,0</sub> (pg/m <sup>3</sup> )	5O <sub>2</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>2</sup> )	(mg/m³)
imit as per	1971	100	60	80	80	-4
AAQS*	Method of Analysis	18 5182 (Part - 23)	15 5152 (Part - 24)	18-5182 (Part - 2)	18 5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sample No:

Name & Address of the

Project.

Latitude:

DMSPL/AA/NIO/IL-48

DMSPL Representative

Mix Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO).

At Nadidih, PO - Kuira

Distr. Sundargarb, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2310/041-048

06/11/2023 NIL

Ref. No. Monitoring Period:

1" Oct. 2023 to 31" Oct. 2023

Equipment Used: Protocol Useif:

RDS & FPS with all accessories 18-5182 & CPCB Guidelines.

Parameter Required:

As per EC Letter

Customer Name: Sample Condition Nadidih Iron Ore Mines

Longitude:

Good/Clear 85" 15'20" E

Sample Callected By: Sample Description:

Location:

Ambient Air Quality Monitoring Village Kashira (A6)

21" 55'10" N

#### RESULTS

Date	PM <sub>10</sub> (ug/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>2</sup> ).	SO <sub>2</sub> (jeg/m <sup>2</sup> )	NO <sub>2</sub> (pg/m <sup>2</sup> )	CO (mg/m3
04.10.2023	553	243	15	12.4	0.46
05.10.2023	57.9	28.3	4.8	10.3	0.42
11.10.2023	56.5	27.4	4:2	10.6	0.48
12.10.2023	62.1	25.6	4.5	10.8	0.43
18.10.2023	58.3	27.8	5.5	11.6	0.44
19.10.2023	64.2	28,2	4.1.	11.3	0.50
25.10.2023	59.8	27,9	4.6	11.5	0.45
26.18.2023	55,7	29.2	5.I	10.3	0.49

	Parameter	PM <sub>10</sub> (µg/m³)	PM <sub>2.9</sub> (ng/m <sup>3</sup> )	SO <sub>2</sub> (jug/m²)	NO <sub>2</sub> (µg/m <sup>2</sup> )	CO. (mg/m²)
Limit as per NAAQS*	- F	100	60	80	80	4
	Method of Analysis	18 5182 (Part - 23)	(Part - 24)	15 5182 (Part - 2)	18-5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/N1O/49-56

M/s Nudidih Iron Ore Mines,

Under ESL Steel Limited, (BICO) /

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Ambient Air Quality Munitoring

Report No:

DMSPL/AA/BIC/2310/049-056

Reporting Date: 06/11/2023 Ref. No:

NIL

Manitoring Period:

1th Oct. 2023 to 31th Oct. 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

Luagitude:

1S-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter Nadidih Iron Ore Mines

Customer Name: Sample Condition

Good/Clear 85" 15'20" E.

Upwind Direction (A7)

DMSPL Representative

21" 58" 14" N

## RESULTS

Date	PM <sub>10</sub> (µg/m <sup>2</sup> )	PM <sub>2,5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> ()(g/m²)	NO <sub>2</sub> (sug/m <sup>2</sup> )	CO (mg/m3)
06.10.2023	56.3	9.9.8	16.7	25.8	0.63
07,10,2023	64.2	47.3	15.2	25.4	0.63
13.10,2923	67.4	\$3.9	10.6	35.5	0.64
14.10.2023	74.3	42.8	18.4	23.6	9.62
20.10,2023	62.0	46.5	15.5	33.2	0.64
21.10.2023	719	,45.1	18.2	29.6	0.71
27/10.2023	67.5	48.6	17.7	28.4	0.68
28.10.2023	63.9	464	17.9	28:6	0.63

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (ug/m <sup>2</sup> )	PM <sub>2.5</sub> (jeg/m <sup>-</sup> )	SO <sub>2</sub> (pg/m <sup>2</sup> )	NO <sub>2</sub> (pg/m <sup>3</sup> )	CO (mg/m <sup>2</sup> )
	(0	100	60	80	80	4
	Method of Analysis	15 5182 (Part - 23)	15 5 (82 (Part - 24)	IS 5182 (Part - I)	IS 5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

""Enit of Test Report"



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Nu:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIO/57-64

M/s Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO)

At Nadidik, PO - Keira

DMSPL Representative

Distr. Sundargarh, Odisha India.

Ambient Air Quality Manituring

Report No. Reporting Date: DMSPL/AA/BIC/2318/057-864

06/11/2023 Ref. No: NIL

Monitoring Period:

1" Oct. 2023 to 31" Oct. 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

18-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter Natidih Iron Ore Mines

Good/Clear.

Downwind Direction (A8)

21" 57"19" N

Sample Condition Langitude: 85° 13'34" E

### RESULTS

Date	PM <sub>(6</sub> (µg/m <sup>2</sup> )	PM(5) (leg/m²)/	SO: (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>2</sup> )	CO (mg/m3)
06:10.2023	55.9	26.4	72	153	0.52
07.10.2023	64.2	25.4	7.1	16.4	0.51
13.10,2023	59.3	33.3	75	16.0	0.56
14.10.2023	5634	27.0	6.1	15.9	0.56
20.10.2023	59.5	30.4	83	101.3	0.52
21,10,2023	563	27.4	9.0	17.4	0.56
27:10:2023	61.3	21.4	6.5	18.1	0.55
28.10.2023	53,4	26.4	8.5	17.3	0.51

	Parameter	PM <sub>H</sub> [sig/m <sup>2</sup> ]	PM <sub>1,8</sub> (jeg/m <sup>2</sup> )	SO <sub>3</sub> (µg/m <sup>3</sup> )	NO <sub>1</sub> (µg/m²)	CO (mg/m <sup>2</sup> )
Dimit as per NAAQS*	-	100	60	80	80	4
	Method of Analysis	15 5182 (Part - 23)	1S 5182 (Part - 24)	(Fart - 2)	18 5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

"End of Test Report"



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Sample will be destroyed after one week from the date of issue of test certificate.

4. The results are related to the test items only.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIOM/01

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Natlidik, PO - Ksira

DMSPL Representative

Distr. Sundargarts, Odishu India-

Ambient Air Quality Monitoring

Report No: Reporting Date: DMSPL/AAM/BICO/2310/001

06/11/2023

Ref. Not NIL

Monitoring Period: Octobe

October 2023

Equipment Used:

RDS & FPS with all accessories

Printincol Used:

IS-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Sample Condition Longitude: Good/Clear 85° 15'33" E

Sample Collected By: Sample Description:

Sample Description Location:

Location: Latitude: Near Mine Office (A1) 21° 58'09" N

RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(ng/m²)	(ng/m²)	(mg/m <sup>3</sup> )	(ng/m³)	(ng/m3)	(µg/m²)	(ng/m3)
04.10.2023	21.2	11.5	:00.05	<0.05	+0.S0	<5:0∶	<1.0

	Parameter	Ozone (µg/m²)	Ammonia (ag/m³)	Lead (ugnu <sup>1</sup> )	Nickel (ug/m²)	Arsenic (ug/m3)	Benzene (ng/m²)	Benzo(a)pyrine (ng/m3)
Limit as	ia .	180	400	1	20	6	5	1
NAAQS*	Method of Analysis	18 5182 (Part - 9)	IS 5182 (Part - 25)	18 5182 (Part - 22)	1S 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part – 12)

National Ambient Air Quality Standards.

\*\*End of Text Report? \*

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(Approved By)



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sample Nu:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIOM/02

M/s Nadidih Iran Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidib, PO - Koira

DMSPL Representative

Near Mines Gate (A2)

Disti. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Reporting Date:

DMSPL/AAM/BICO/2310/002

06/11/2023

Hef. No: NIL

Serie

Monitoring Period:

October 2023

Equipment Used: Protocol Used: RDS & FPS with all accessories

1,000

18-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Sample Condition

Good/Clear

Longitude:

85° 15'44" E

21" 58"23" N

RESULTS

Date of Sample	Ozime (µg/m²)	Ammonia (µg/m²)	(reg/m <sup>2</sup> )	Nickel (ng/m <sup>3</sup> )	Arsenie (ng/m3)	()sg/m²)	Benzo(a)pyrine (ng/m3)
11.10.2023	18.5	30.6	<0.05	< 0.05	<0.50	45.0	e1.0

	Parameter	Ozone (µg/m²)	Antonnia (jtg/m <sup>3</sup> )	Lead (µg/m²)	Nickel (mg/m²)	Arsenie (ng/m3)	Henzene (µg/m²)	Benzo(a)pyrine (ng/m3)
Limit as	10,00	180	400	1-	20	6	5	1
NAAQS*	Method of Analysis	18 5182 (Part - 9)	18-5182 (Part - 25)	15:5182 (Part22)	IS 5182 (Part - 26)	As per CFCB By AAS	18 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Locations

Latitude

DMSPL/AA/NIOM/3

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

Village - Kenduhidi (A3)

Diett. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No. Reporting Date: DMSPL/AAM/BICO/2310/003

06/11/2023

Ref. No. NIL

Monitoring Period:

October 2023

Equipment Used:

RDS & FPS with all accessories 18-5182 & CPCB Guidelines

Protocol Used:

As per EC Letter

Parameter Required: Customer Name:

Nadidih Iron Ore Mines

Approved By)

Sample Condition

Good/Clear 85° 16'14" E

21° 59'45" N

Longitude:

RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nicket	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(με/m³)	()(g/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
19.10.2023	183	312	<0.05	<0.05	<0.50	<5.0	<1.0

Limit as per NAAQS*	Parameter	Ozone (µg/m²)	Ammonia (µg/m²)	(log(m <sup>2</sup> )	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (ng/m²)	Benzo(a)pyrine (ng/m3)
	-	180	400	1	20	6	5	10
	Method of Analysis	IS 5182 (Part - 9)	18 5182 (Part - 25)	18 5182 (Part - 22)	IS 5182 (Part – 26)	As per CPCB By AAS	15 5182 (Part - 11)	15 5182 (Part - 12)

National Ambient Air Quality Standards.

""End of Test Report""

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude

DMSPL/AA/NIOM/4

Ma Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

21° 58' 04" N

Distt, Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No. Reporting Date: DMSPE/AAM/BICO/2310/004

06/11/2023

Ref. No.

NIL

Monitoring Period:

October 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

18-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter.

Customer Name: Sample Condition Nadidili Iron Ore Mines

Village Badipada (A4)

Good/Clear

Langitude:

85° 18'33" E

## RESULTS

Date of Sample	Ozome	Ammunia	Lead	Nickel	Arsenic	Benzene	Benzo(n)pyrim
	(µg/m²)	(µg/m²)	(µg/m <sup>4</sup> )	(ng/m <sup>3</sup> )	(ng/m3)	(µg/m²)	(ng/m3)
07.10.2023	19.2	34.6	<0.05	<0.05	<0.50	<5.0	<1.0

Limit as per NAAQS*	Parameter	Ozmie (µg/m²)	Ammonia (ng/m²)	Lead (icg/m <sup>2</sup> )	Nicket (ng/m²)	Arienic (ng/m3)	Benzene (ug/m³)	Benzo(a)pyrine (ng/m3)
	=	180	400	1	20	6	5	1
	Method of Analysis	IS 5182 (Part - 9)	IS 5182 (Part - 25)	15 5182 (Part – 22)	(8 5182 (Part - 26)	As per CPCB By AAS	15 5182 (Part - 11)	15-5182 (Part - 12)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*



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8126412491 = digcareminingsolution@gmail.com



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Name & Address of the

Project:

DMSPL/AA/NIOM/5

M/s Nadidib tron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidib, PO - Koira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AAM/BICO/2310/005

06/11/2023

Ref. No: NIL

Monitoring Period:

October 2023

Equipment Used:

RDS & FPS with all accessories

15-5182 & CPCB Guidelines

Protocol Used:

Langitude:

Sample Collected By:

Sample Description:

Location: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Village Jhicapani (A5)

21" 59"58" N

Parameter Required:

Customer:Name: Sample Condition As per EC Letter: Nadidib from Ore Mines

Good/Clear. 85° 13'10" E

#### RESULTS

Date of Sample	Crone	Anmonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m²)	(re/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
14.10,2023	22.5	35.8	<0.05	< 0.05	(0.50	×5.0	+1.0

	Parameter	Ozune (µg/m²)	Ammonia (µg/m²)	Lead (ug/m <sup>k</sup> )	Nickel (ng/m²)	Arsenic (og/m3)	Benzene (µg/m²)	Benzo(n)pyrine (ng/m3)
Limit as	122	180	400	1	20	(6)	5	1.
NAAQS*	Method of Analysis	IS 5182 (Part - 9)	IS 5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part – 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part – 12)

National Ambient Air Quality Standards.

""End of Test Report""

(Approved By)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NHOM/6

M/s Nudidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative.

Distr. Sandargarh, Odisha India.

Report No: Reporting Date: DMSPL/AAM/BICO/2310/006

96/11/2023

Ref. No:

NIL

Monitoring Period:

October 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

18-5182 & CPCB Guidelines

Parameter Required:

Customer Name: Sample Condition As per EC Letter Nadidih Iron Ore Mines.

(Approxed B

Longitude:

Good Clear 85" 15'20" E

Sample Cullected By: Sample Description:

Location: Latitude:

Ambient Air Quality Monitoring Village Kashira (A6)

21" 55"10" N

RESULTS

Date of Sample	Ozone	Ammonia	Lend	Nickel	Arsenic	Benzene	Beazo(a)pyrina
	(pg/m²)	(pg/m²)	(µg/m²)	(ng/m²)	(ng/m3)	(jug/m²)	(ng/m3)
21.10.2023	21.6	33.4	< 0.05	<0.05	<0.50	< 9.0	<1.0

	Parameter	Ozone (ug/m²)	Ammonia (ng/m²)	Lead (ag/m²)	Nicket (ng/m²)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(n)pyrine (ng/m3)
Limitas	Ē.	186	400	3	20	6	5	1
NAAQS*	Method of Analysis	18 5182 (Part - 9)	IS 5182 (Part – 25)	18 5182 (Part - 22)	15 5182 (Part - 26)	As per CPCB By AAS	18 5182 (Part – 11)	15 5182 (Part - 12)

""End of Test Report"

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National Ambient Air Quality Standards.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AX/NIOM/T

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Disti. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AAM/BICO/2310/007

06/11/2023

Ref. No. NIL.

Manitoring Period:

October 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Sample Cullected By:

Sample Description:

Locations Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Upwinit Direction (A7)

21° 58'14" N

Parameter Required: Customer Name:

Sample Condition Lungitude:

As per EC Letter Nadirih Irun Ore Mines

Good/Clear 85" 15'20" E

#### RESULTS

Date of Sample	Ozone	Ammonia	Lend	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m³)	(jig/m²)	(µg/m²)	(ng/m²)	(ng/ni3)	(µg/m³)	(ng/m3)
23,10,2023	17.8	32.2	<0.05	< 0.05	< 0.50	<5:0	<1.0

	Parameter	Ozone (µg/m³)	Ammonia (µg/m²)	Lead (µg/m²)	Nickel (ng/m²)	Arsenic (ug/m3)	Benzene (µg/m²)	Henzo(n)pyrine (ng/m3)
Limit as		180	400	1,	20	6	5	ī
per NAAQS*	Method of Analysis	15 5182 (Part - 9)	18 5182 (Part - 25)	IS 5182 (Part - 22)	(\$ 5182 (Part - 26)	As per CPCII By AAS	15 5182 (Part -11)	1S 5182 (Part – 12)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By::

Sample Description:

Project:

Location:

Lutitude:

DNISPL/AA/NIOM/R

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

Downwind Direction (A8)

21" 57'19" N

Distr. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report Not Reporting Date: DMSPL/AAM/BICO/2319/908

06/11/2023

Ref. No.

NIL

Monitoring Period:

October 2023

Equipment Used:

Protocol Used:

RDS & FPS with all accessories

15-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter

Custumer Name: Sample Condition Nadidih Iron Ore Miney Good/Clear

SORE

0 - 00

(Approved By

Longitude:

85° 13'34" E

RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrin
	(µg/m²)	(µg/m²)	(µg/m <sup>4</sup> )	(ng/m³)	(ng/m3)	(µg/m³)	(ng/m3)
30.10.2023	20.2	31.6	₹6.05	< 0.05	<0.50	<5.0	<1.0

	Parameter	Ozme (µg/m²)	Ammonia (µg·m²)	Leaft (pg/m²)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyvim (ng/m3)
Limit as	**	180	400	ï	20	6.	5	1
NAAQS*	Method of Analysis	IS 5182 (Part - 9)	15 5182 (Part – 25)	45 5)82 (Part – 22)	15 5182 (Part - 26)	Ax per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

\*\* End of Test Report\*\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Sample Name:

Project:

DMSPL/AN/NIOM/01-08

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

Noise Level Monitoring

Ambient Noise Monitoring

Distr. Sumlargarh, Odisha India.

Report No:

Reporting Date:

Ref. No.

Monitoring Period: Equipment Used:

Protocol Used:

Parameter.

Sample Condition

DMSPL/AN/BICO/2319/001-008

06/11/2023

NIL

1" Oct. 2023 to 31" Oct. 2023

Sound Level Meter

15-9989

Required.

Customer Name:

Ax per Govt, Standard Nadidib from Ore Mines

Approved B

Good/Clear

#### DUSULTS

Sr. Nii.	Location	Date	Latitude:	Longitudes	Day Time [dB(A)]	Night Time [dB(A)]
1	Near Mine Office	07.10.2023	21° 58'09" N	85° 15°33" E	63.4	49.3
-2	Near Mines Gate	10.10.2023	21" 58'23" N	85° 15'44" E	52.1	52.4
	A CONTRACT OF THE PARTY OF THE	nit Industrial	Area as per CPC	В	75.0	70.0
3	Village Kenduhidi	12,10,2023	21" 59"45" N	85° 16'14" E	52.3	44.3
4	Village Budiparta	16.10.2023	21° 58'04" N	85° 18"33" E	52.4	39.6
5	Village Jhirapani	18.10.2023	21" 59"58" N	85° 13'10" E	493	39.4
6	Village Kashira	22,10,2023	21" 55"10" N	85" 15'20" E	52.5	42.3
7	Upwind Direction	26.10.2023	21" 58"14" N	85" 15'20" E	53.2	42.4
M	Downwind Direction	29,10,2023	21°57'19" N	85° 13'34" E	54.4	43.2
_	7 - 1	nit Residentia	Area as per CPC	В	55.0	45.0

CPCB :- Central Pollution Control Board

""End of Test Report""



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3. Sample will be destroyed after one week from the date of issue of test certificate.



Plot No. 672/18; First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Number:

DMSPL/NIOM/ST/01

Report No.:

DMSPL/ST/BICO/2310/001

Name & address of the

M/a Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO) Format No.:

7.8 F-113

Project:

At Nadidib, PO - Koira

Party Reference No.: NIL

Distr. Sundargarh, Odisha India.

Reporting Date:

25/10/2023

Period of Analysis:

18/10/2023 to 25/10/2023

AMD-1

Receipt Date:

15/18/2823

Sample Description:

Stack Emission Monitoring

General Information

Sampling Location

DMSPL Lab Representative

Sample Callected by Date of Sampling

15/10/2023

Sampling Duration (Minutes)

43.0 Min

Stack attached to

DG Set

Make of stack

MS

Diameter of stock (m).

8.30 Mater

Instruments calibration status

Calibrated

Meteorological Condition

Clear Sky

Ambient Temperature - Ta (\*C)

324

Temperature of stack Gases - Ts (°C)

220.0

Velocity of stack Gares (m/sec.)

9.20

Flow rate of PM (LPM)

22:0. 2.0

Flow rate of Gas (LPM) Sampling condition

Isokinetic

Protocol used

IS311255

#### RESULTS

S. No.	Test Parameters	Test Method	Results	Linits	Limits as Per CPCB
1.	Particulate Matter (as PM)	IS 11255 (P-1), Gravimetric Method	42.20	mg/Nm	75
2	Oxide of Nitrogen (as NO)()	IS 11255 (P-7)	160.2	ppm	710
X.	NMIC	DMSPL/ENV/STP/ST/FGA/III. Issue No.   01.01/11/24	18:2	mg/Nm	300
4,	Sulphur Dioxide (us 802)	IS 14255 [15-2), Turimetric Method	25.4	mg/Nm	
5.	Carbon Monovide (as CO)	DMSPLÆNV/STP/ST/FCA/01, Issue No 01/01/11/21	30,4	mg/Nm <sup>3</sup>	150

Note: \* STP-Latonium's Standard Testing Procedure

\*\*\*Emil of Report\*\*\*

heeked By

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AAFS/NIOM/01

M/s Nadidik from Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Koira

Distr. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AAFS/BICO/2310/001

06/11/2023

Ref. No:

NIL

Monitoring Period:

1" Oct. 2023 to 31" Oct. 2023

Equipment Used:

RDS with all accessories

Protocol Used: 15

IS-5182

Sample Collected By: Sample Description:

Sample Description: Sample Type : DMSPL Representative

Ambient Air Quality Monitoring

Free Silica Composition

Parameter Required:

As per TOR Letter

RESULTS

### Chemical Composition of PM 10 with Free Silica

Location	Date	PM10 (µg/m²)	Free Silica	Ca (µg/m²)	Mg (µg/m²)	Ni (ng/m²)	Pb (pg/m²)
Near Mine Office	04,10.2023	68.4	2.6	1.18	0.24	< 0.5	0.06
Near Mines Gate	07.10.2023	76.2	2.2	1.20	0.30	< 0.5	0.07
Village - Kenduhidi	10:10:2023	55.2	2.6	1,22	0.30	<0.5	0.08
Village Bandipada	14.10.2023	57.3	2.4	21/16	0.28	<0.5	0.08
Village Jhirapani	18.16.2023	64.5	2.3	1:24	0.30	<0.5	0.05
Village Kashira	21.10.2023	59.3	2.6	1.26	0.26	< 0.5	0.06
Upwind Direction	25.10.2023	76.4	2.7	1.29	0.28	< 0.5	0.07
Downwind Direction	29:10:2023	78.2	2.2	1.30	0.30	<0.5	0.08





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Sample Same.

Project:

DMSPE/FD/NHDM/01-08

M/s. Nadidili Iron Ore Mines.

Under ESL Steel Limited, (BICO) At Nadidite, PO - Kolra

DMSP1 Representative

Ambient Air Minitoring

Fugitive Dust Sample

Distr. Sundargarb, Odisha India.

Protocol Used:

Ref. No:

Required:

Parameter.

Report No:

Reporting Date:

Monitoring Period:

Equipment Used:

Customer Name:

Sample Condition

DMSPL/FD/BICO/2310/001-008

06/11/2023

NIL

1" Oct. 2023 to 31" Oct. 2023 RDS & Personnel Dust Sampler

18-5182 & CPCB Guidelines

As per EC Letter

Nadidih Iron Ore Mines

bapproxedille

Good/Clear

#### RESULTS

Sr. No.	Location	Date	Latitude:	Longitude:	(ug/m <sup>3</sup> )
1	Mine Benches Area	06.10.2023	21" 58"16" N	85° 15°16" E	912.40
2	Haul Road	10.10.2023	21" 58'16" N	85" 15"26" E.	924.80
3	Crushing Plant	14.10.2023	21" 58"24" N	85° 15'33" E	1120.86
4	Screening Plant	18,10,2023	21" 58'30" N	85" L5"40" E	886.20
5	Ore Loading Area:	24.10.2023	21" 58'28" N	85° 15'10" E	992.30
6	Waste Dump Area	28.10-2023	21" 58"30" N	85° 15°42" E	756.90

1.00		
Limit as per Consent*	Parameter	Suspended Particulate Matter (SPM 1200 µg/m²)

State Pollution Control Board, Odisha.

"End of Test Report"

(Checked By)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Somber:

Name & Address of the

Project:

DMSPL/GW/NIOM/RI

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Keira

Distt. Sundargarb, Odistor India.

Report No.:

DMSPL/GW/BICO/2310/001

Format No.:

7.8 1:-01

Party Refreence No.:

NIL

Reporting Date:

25/10/2023

Ground Water Level:

S.K.Mtr.

Sample Description:

Sample Lucation:

Sample Collected by:

Sampling and Analysis

Ground Water Sample

Near Mine Site DMSPL Representative

IN 3025 & APILA 2316 Edition 2017

Period of Analysis:

14/10/2023-25/16/2023

Receipt Date: Sampling Date: 14/10/2023

Sampling Quantity,

5.0 [Jr + 250m]

Protocol: Preservation

tre Box

Sampling Type:

Grah

					Limits of IN: 10500+2012	
, No.:	Parameter:	Test-Mathod	Monule	Call	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
II	pri rii 25°C):	APITA A500-H B Electrometric Method	8.37	-	651085	No Relation
2	Colour	APHA 2120 B. Visual Comparison Method	*BLQ (**EOQ L0 Hases)	Насен	- 5	15
1	Turbidity	APRA, 2130 B. Nephlemmetric Method	*BLQ (**L00 LENTU)	SIL	L	- 5
4	Odour	APHA, 3150 B., Threshold Odean Method	Agreeable	0.0	Agressible	Agrombie
9	£arte	APHA / 2160 B: Threshold Treat Method	Onsgrentic	-	Agrocable	Agreeable
6:	Xunii Hardness m. CaCOs	APHA , 2348 C, EDTA Tariosonic Mathed	153.6	lengt.	200	600
3/	Calcium as Ca	APHA, 3500 Ca B, EEYTA Titrimiteic Method	4526	mitted.	25	200
K.	Alkalinity as CaCO <sub>A</sub>	APHA . 2320 H. Titrimatric Mothed	12138	ngil	200	600
· Q	Chloride su Cl	APHA, 4580-CT B. Argenometric Method	8432	mg	250.	1000
III.	Crandein CV	APHA, 3300 CN D	*BLQ(**LOQ 0.02 mg/0	Egin	0.05	No Всіаказня
11.	Magnesium to Mg	APREA . 3300 Mar R. Calculation Method	8.47	June 1	31	1(0)
1.2	Total Dimelogic Solids	APHA, 2540 C. Grayanatos Method	342.81	(Hgf)	500	2000.
13.	Sulphoto in SO <sub>4</sub>	APMA, 4500 E. Turbidingeru, Method	103.17	mp7	.300	400
14	Flooride in F	APHA: 4500-F D; SPADNS Method	0.42	man	1.0	135
13.	Numit as NO <sub>3</sub>	15 3025 (P-34) "Classopropic Mediod	22.76	00%/	45	No Heliosation
tio.	Innius Fe	18 3625 (P-83): 2014(RA 2019).	0.23	mail	3,0	No relaxation
17.	Aluminium in Al	15:3023 (P-65);2011(RA:2819)	*BLQ(**LOQ 0.005 mg/l)	mgit	0.03	6.2
1.8	Director	IS-3025 (P-65):2014(RA:2019)	(figur fit.0 (0.1**)(1.8*	mg/t	0.5	2.41
14	Khramineto en Cr	1S-3023 (P-65):2014(RA-2019)	*BLQ(**LOQ 0.002 mg/l)	, mg/i	9.03	No Returation

Softenhad by)

Separaved By

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-4S001/NABL Accredited Lab

### Test-Report

Carrielle	No. DMSPL/GW/SIO	M/91	7	Report No.: 1	MSPL/GW/B	1CO/2310/001
			/		Limits of 18:10500 -2012	
S. Na.	Parameter:	Test-Mathud	Result		Requirement (Acceptable) (Junit	Permissible finition the Absence of Alternate Source
36	Physiolic Compounds	APHA. 5530 C Chloroform Extraction Method	*HLQr**LOO 0.0005:mg/li	жул	0.001	0.002
23	Missral Oil	Clause 5 of 15-30,25(Part 39)	4HO(**)(100.0.1 mill)	mp/i	1.0	Relicution
32	Alloose Detergents as	Annex K of 35 13428, 89 5025	*BLOX121.0Q 0.05 mg/l)	Fam	0.2	1.0
- 23	MBAS Zmi m Zn	ES 2025 (P-63) 2014/RA-2019)	0.17	17(6)	- 4	15
24	Copper as Cu:	15 3025 (Pant) 2014 RA 2019)	0.02	Tunt:	0.05	1,5
34	Margarette Min	(S 3025 (P-65) 2014(RA-2019)	*BLQ\$**L1)Q-Q-(1) me/1)	nel	4.1	6.3
0.260	Cademan as Cd	IS 3025 (P-65) 2014(RA 2019)	*BEQ(**EQQ 0.002 mg/l	mult.	0.003	No Relassion
27.	Lizat as Ph	IS 3023 (P-65) 2014(RA:2019)	*BLOX**LOQ 0.002 mg/1)	.ing/l	0.01	No Reincarion
2%	Scienium as Se	[\$ 102549-65-2014/RA-2019]	*BLQC**LOQ 0.001 mg/D	1997	0.03	No Relatation
26	Aneliik in As	18-3025 (P-65)(3014)(BA-2019)	*BLO(**LDO 0.005 pg/f)	. Villed	0.01	No Religation
HA	Menory in Hg.	IS 3025 (#-65):2014(RA-2019)	*HLQ (**LER) 9.0005 mg/h	mail	0.001	No Relatation
33	Final Coliforn	IS 1622,1981, RA-2019	4	NIPN/Hitml	100 m	electable in my ample
32.	T. Coli	15 (622,198), ICA-2019	ABsant	5d(251/100ml		etectable in may sample

None - \*BLQ-Below Limit of Quantification, \*\*LOQ-Limit of Quantification



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Test-Report

Sample Number: Name & Aildress of the Project: DMSPL/GW/NIOM/02

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sandargarb, Odisha India.

Report Naz Format No.: DMSPL/GW/BRCD/2318/662

28F40

NIL

Party Reference Ne.: Reporting Date:

25/10/2023

Ground Water Level: 4.2 Mir.

Sample Description:

Sample Location:

Sample Collected by:

Sampling and Analysis Protocol:

Preservation:

Ground Water Sample

Village Kenduhidi DMSPL Representative

15:3025 & APHA 23rd Edition 2017

fee Hou

Period of Analysis:

14/18/2023-25/19/2023

Receipt Date: Sampling Date: 14/10/2023 10/10/2023

Sampling Omintity:

5.0 Ltr + 250ml

Sampling Type:

Grab

				Unic	Limits of 18:10500 -2012	
S. No.	Facumeter	Test-Mathod	Result		Requirement (Acceptable) Limit	Permissible fimit in the Absence of Alternate Source
1	pH1at25*C):	APRIA 4500-H B Electrometric Memod	¥27	-	0.5 0) 8.5	No Baliculini
1	Cultorar	APELA ,2120 B, Visual Comparison Method	SHLQ (STLOQ L0 Hacm)	Haren	3	18
1	Yudhiditi	APHA, 2139 B. Nephletoneurs: Mettest	*HLG (**1.00 1.0 NIL)	MILL	T	.5
4	Odour	APHA, 2150 B. Threshold Odour Method	Ajjrezible	H	Aprovide	Agreeable
4	Tiety	APHA 2160 B. Threshold Test Method	DisAgrecable	- 22	Agrecible	Agrecultie
6.	Toget Hardway on	APHA 2340 C. EDTA Titrimetra Method	265.45	280/5	200	609
7	CsCO <sub>2</sub> Cylcom in Ct	APHA, 3500 Ca.B, EDTA Torinatric Method	22.8	mp1	75	200
8	Allothury as CaCO <sub>3</sub>	APRA , 2326 B. Thrimeric Method	133.08	melt	200	600
746	Chloride as CI	APHA, 4500-CT B. Argentometric Mistord	E2-505	mg/t	/250	1000
III.	Cymide in CN	APHA, 4500 CV D	*HLQ(**LOQ 0.02 mg/l)	1989	0.05	No Relasation
137	Magazinia as Mg	APHA , 3500 Mg B; Calculation Method	T.54*	mg/l	30	(00)
12:	Total Dimotycal Salids	APHA , 2540 C. Grammetric Method	383.21	10007	500	2000
18	Suiphield at SCL	APHA - 4500 t. Turbidimeric Method	115.13.	7992	208	400
14:	Charries in F	APBA , 4500-P.D. SPARNS Method	0.48	:rtig/l	1:0:	1.5
18	Name of 50s	15 1025 (P-34) Chiaminopic Miched	3.52	mg/l	45	No Relaxatio
16	too as Fe	15 2025 (F-65):2014(RA:2019)	0.22	mg/l	1.0	No rehisano
17.	Afaminium as Al	IS 3025 (P-65):2814(RA:2019)	*8LQ(**LOQ.0.905 mg/l).	. mg/l	6.03	0.2
18.	Duton	DS 2025 (P-65):2014(BA:2019)	*8L(X**LOQ 0.91 mg/l)	_mg/l	0.5	→24
TW.	Chromium ax Cr	[8:3025 (P-65):2014[RA:2019]	*BLQ**L00 0.002 mg/0	Figure -	0.05	No Relatatio

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample	No.: DMSPL/GW/NIO!	M/02		Report No.2	DMSPL/GW/B	(COSTON2
					Limits of 18:10500 -2012	
S. Nu.	Parameter	Test-Method	Result.	Unit	Hequirement (Acceptable) Limit	Permissible limit in the Absence of Albertate Source
256	Респой: Сопроиду:	APHA 5530 C Chioroform Extraction Method	*BLOK**ECKS 0.0005 (0g/0)	Pager	0.001	0.002
23.0	Mineral Oil	Canage 6 or 15: 3025 (Part 39)	*BLQ(**TOQ 0.1 mgt)	"migrill	0.1	No Relaxation
27.	Annuic Deurgemon MIAS	Annes 8, or 15 13428, 15 3025 (19-68)	48F0(+4F00.978.9%)	Tegel	0.2	7.0
23	Zoscan Zo	IS 3025 (F-65)(2004)(RA-2019)	1.01	(n)	5.	1.5
24	Copper as Cu	15 3025 (P-65):2014(RA-2019)	0.65	mgf	0.05	1.5
25.	Manganese as Mn	15 1025 (F-65)(26) 4(RA-2619)	*BLOC**LOQ-0.01 mg/0.	"mg/l	0.1	0.7
26.	Cadminn as Cd	15 3025 (P-65)-2014(RA, 2019)	*BLQ(**LOQ 0,002 mg/l)	mg/l	0.007	Nis Richtzation
22	Lambur Ph.	15 3024 (P-691-2014(RA:2019)	*Hit O(**1.00 0.002 mg/tt	Tiger	10.04	No Belicumo
28.	Simons	(S 1025 (P-65):2014(RA):2019)	*BLUE**LDQ 0.001 mg/0	mg/i	0.01	No Relaxatio
39.	Anglic at At	15.1025 (P-85):2014(RA/2019)	*BLQ(**LOG) 0.005 mg/0	itig/I	10.01	No Relexation
28	Mercury at Hg	15 3025 (P-65) 2014(RA-2019)	"BLQ (""LOQ 0.0005 (mg/l)	ma5	0.001	No Relacatio
33.	Total Colitions	IS 1622, DR1, RA-2019	4	MPN/100mi	100.00	enectable in any sample
-32	E. Coli	IS 1622,1981, RA-2019.	Africati	MENCHOOD		etectable in any Frampie

hour - MLO-Below Limit of Quantification, \*\*LOQ-Limp of Quantification

So (Cheekest by)



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Sumber:

DMSPL/GW/MOM/03

Name & Address of the Projec

M/s. Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Keira

Distt. Sundargarh, Odisha India.

Report No.:

tiMSPL/GW/88CO/2310/003

Format No.:

7.8 F-01

Party Reference No.:

NIL

Reporting Date:

25/10/2023

Ground Water Level: 4.0 Mir.

Sample Description:

Ground Water Sample

Sample Location:

Village Badipada DMSPL Representative

Sample Collected by:

IS 3025 & APHA 23" Edition 2017

Sampling and Analysis Protocul:

Preservation:

fee flox

Period of Analysis:

14/16/2023-25/16/2023

Receipt Date.

14/16/2025 10/10/2023

Sampling Date: Sampling Quantity:

5.0 Lar + 250ml

Sampling Type:

Grab

					Limits of IS:	10500-2012
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Almente of Alternate Source
76	pts (st.25 °C)	APILA ASSOCIATE B Electrometric Method	7.52		6.5 to 8.5	No Kelassion
2.	Colour	APHA 2128 B, Vir. of Companion Method	*HLQ (**LOQ 1.0 Harm)	Hine		.15:
10	Turbidity	APHA, 2130 B, Nightelumetric Method	*BLQ (**LOQ (,0 NTU)	NTU	1	5
4.	Ddowr	APHA, 2150 B.; Tweshold Other Method	Agretalise		Agreeable.	Agrocable
5.	Tions	APHA , 2000 B. Throshold Ten Method	Agreeable	-	Agrouble	Agrensble
ō.	Total Harbicos et	APSIA, 2040 C. EDFA Turimeric Mitthed	143:23	=#4	300	6000
1.	CaCO <sub>3</sub> Calcium as Ca	APHA, 3500 Call, EDIA Vitometric	47.91	ma/i	75	200
ñ.	Alkalinsty as CaCO <sub>4</sub>	Method APEA , 2320 B. Tilnimetric Method	116.27	mp%:	299	600
9.	Chloridi as Cl	APHA, 4500-LT B. Armitometric Method	86/13	rigiT.	2.50	1000
1,6	Combinates	APHA_#100 CW TO	*BEQ(**E.OO 9,02 mg/b):	Togor	0.05	No Reinoation
11.	Magnesium as Mg.	APSIA . 3500 Mg B. Culcidation Method	3.42	inth)	30	100
12.	Total Desotred Solids	APHA , 2540 C. Grassmerry Method	335.23	mgfl	500	2000.
13.	Sulphitte at 504	APHA 4590 F. Turbidimetric Method	97.46	71111/3	200	460
14	Plinwide on F.	APEIA , 4500-F D, SPADNS Minhod	0.38	21W)	1.0	1.5
15	Nitrain as NOs	15 5025 (P-34) J. hosmotropic Method	23.98	Пут	45	Ne Retireation
16.	Diversity	15 3025 (Pai/S-2014(RA-2019)	0.45	23gcq./5	1.0	No edmatice
17/	Municipal A	15 3028 (P-63) 2014(RA 2019)	*BEQ(**LOQ 0.005 mg/L	9497	0.93	0.2
10	THE STATE OF THE PARTY OF THE P	18 J025 (P-65):2014(RA:2019):	*BLOC*1,00 0.01 mg W	Qu.	45 0	2.4
( <u>\$</u> (	Shower 12	IS 3025 (F-65):2014(RA:2809)	*HEQL**1.00 0.001 mg/F	( A)	70/05	Sin Relicontin

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Simple	Sa. DMSPL/GW/S10	M/03		Report No.	DMSPL/GW/B	ICO/2310/003
			3'		Limits of 15:10500-2012	
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible fimit in the Absence of Alternate Source
20.	Plicoide Composede	APHA, 5530 E Chloroform Extraction Method	*HL(X**LOQ 0.0003 mg/l)	(ing/A	0.001	0.002
23	Mineral Oil	Clause 6 of 15:3025(Part 39)	*RL(3;**LO(2:0.3 mg/l)	Ngm	1.0	No Relevation
22	Amonia Desergents or MILAS	Annex K-of IS 13428, 15 3025 (P-68)	ANTOG A EGO O D2 H≜41	nigit	0.2	1.0
23,	Zinc as Ze	15 3025 (0-65) 2014(KA-2019)	0.87	1949/1	.5	15
34	CopperlicCir	15 JR25-056512824(RA JRJV9)	0.06	1197	0.05	13
25.	Manganess in Ma.	75 3025 (P-65) 2014(RA-2019)	Tigm:1000QC0.1eqQ.HB*	:0197	0.1	0.3
260	Calminn at Cit	15, 3025 (P-68) 2014/RA:20193	*HLQC*LOQ 6007 mg/0	THE P	0.003	No Relaxation
27	Lend in Ph	TS 2025 (P-65):2018(RA:2019)	*BLQ(**EGQ 0.002 eq.1)	1000/1	0.01	No Relaxation
76	Schmium as Sc	IS 3025 (P-65):2014(RA:2019)	*BLQ(**L()Q (1.50) == 1)	regal .	0.01	No Religionist
29	Americ as As	15-3025 (P-63)(2014(RA-2019)	*BLQc++LciQ 0.005 mg/t)	Tuor	0:01	No-Retionation
343	Mercusy = Mg	15 3025 (P-65):2014(RA:2019)	*III.Q (**1.0Q-0.0005 mg/l)	.mp/7	160.0	No Religions
315	Total Coliforn	IN 1622,1981, RA-28119	- 42	51950 H00ml	100 mi	nectable in my sample
15	E-Coli	IS 1622.19(1.7CA-2019)	Aleson	5HPN/100ml		erctable in any cample

Note: -\*BLQ-Below Limit of Quantification, \*\*LOO-Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Name & Address of the Project:

DMSPL/GW/NIOM/04

M/s Nadidih Iron Oce Mines,

Under ESL Steel Limited. (BICO)

At Nudidili, PO - Koira

Distt. Sundargarh, Odisha India.

Report No.:

BMSPL/GW/BICO/2318/984

Diermat No.:

7.8 1-91

Party Reference No.: Reporting Date: NIL. 25/10/2023

Ground Water Level:

3.6 Mar.

Sample Description:

Ground Water Sample

Sample Location.

Village Jhirapani DMSPL Representative

Sample Collected by: Sampling and Analysis Protucol:

18 3025 & APILA 23" Edition 2017

Preservation;

tee Hua

Period of Analysis:

14/10/2023-25/10/2023

Receipt Date: Sampling Date: 14/10/2023

Sampling Quantity:

5,0 Lec+ 250ml

Sampling Type:

Grah

	Parameter			(Carat	Limits of 15:10500 -2012	
N. No.		Test-Method.	Result		Requirement (Acceptable) Limit	Permissible fimit in the Absence of Alternate Source
1.	281 (at 25 °C)	APHA ,4500-HT II Electrometric Method	7,83	7	6-5 to 8.5	No Reheation
2.	Colour	APILA ,2120-B, Vinnif Comparison Method	*81.0 (**L00 1.0 Haten)	Histori	3.	15
+	Turbidity	APHA, 2(30 B; Nephlelonserise Method	*BLQ (**LOQ L0 STU)	NIU	1	
4	Odour	APITA, 2150 B. Throshald Other Method	Aprecable	50	Agracable	Agreeable
3	laz	APLIA 2160 B. Theolold Tail Muthod	DisSgroublic	96	Agreeable	Aprochh
10.	Youl Hirthey in	APHA , 2340 C. EDTA Tirringatic Method	197-26	10004	200	3688
+	Catcom as Ca	APRA, 3500 Cs B, EDTA Titrauetric Method	37.67	mp3	75	200
N:	Affealinity in CaCO <sub>4</sub>	APIA , 2320 B. Turmestric Moderal	136.82	mg/l	200:	600
-	Chioride as Ci	APHA, 4500-Cl B. Argentomentic Method	96,9#	mgd	250	1000
10.	Cymide as CN	APHA :4500 CN D	*BLQU.(X) 0.92 mg/s	mg/l	0.05	No Relaxation
FI.	Migraelium as My	APHA , 3500 Mg B, Calculation Method	12,34	mari:	30	100
12	Total Dissolved Saliks	APELA 2540 C. Gravimetric Method	763/87	mgiT	507	2000
13	Suitefaitu as SO <sub>4</sub>	APHA 4500 F. Forts Specie Method	134.26	Tgm	200	400
14	Flooride in F	APHA, 4500 (F.D. SPADNS Melbod	1,05	mid.	1.31	1.5
15	Narate at NOv	15 2025 (P-38) «Chromotropic Method	23.89	mgd	14.5	No Refection
16.	from as the	15/3025 (P-63);2814(RA-2019)	0.22	fupil.	1.0	No relevation
177	Atuministras Al	15.3025 (P-65);2014(RA:2019)	*BLQ(**1.00) 0.005 mg/l)	mg/L	9.63	0.2
18:	Horas	TO 1025 (P-65)-2014(RA (2019)	*HEQ(**LOQ-0:01:mg/0.	mg/i	0.5	2.8
14	Chambin in Cr	15 3025 (P-63):2014(RA-2019)	*BLO(**LO() 0.002 mp(l)	(He)	0.03	No Relaxation

(Checked by)

(Approved By)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample	mple No. DMSPL/GW/NIOM-94 Test-Report Report No.: DMSPL/GW/BICO/2310/064						
	i. No. Parameter Test-Mathini				Limits of 18	Linux of 15:10500 -2012	
S. No.			Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source	
360	Placotic Chingsonias	APITA, \$53.0 C Chlorolorm Extraction Method	*BLQ(**LOQ 0.0005 mg/L)	right:	0.001	0,002	
25	Minural (Si)	Chause 6 of 15:3025(Part 39)	*BT:Ö(**LOG 0:T min/j)	mp8.	7.0	No. Heliostico	
ZZ.	Artionic Denergons and MISAS	Annies, K. of TS 13428, IS 3425 -(2-48)	*BLQ(**LOQ 0.05 mg/1)	Турн	162	E.0	
23	ZincariZn	15-7025 (P-65) 2014(RA-2019)	1.17	199/	- 3	71.5	
25/	Сорруг нь Си	TS 3025 (P-65):2014(RA:2019)	0.05	Trigg(E	0.05	1.5	
24	Mangarene as Mix	15/3025 (P-65)-2614(RA:2619)	*BLQt**LOQ 0.01 mg/7)	7067	0.1	0.3	
2h;	Cadminous Cit	15 3034 (P381) 2014(RA 2010)	*HLQ(**LOQ 0.002 mg/l)	roig/i	0.003	No Relaxation	
27	Lyad or Ph	15.3025 (P-65):2014(RA:2019)	*HLQK**LOQ 0.002 mg/3)	2000	0.01	No Relavanos	
28.	Selenino as Sc:	TS 1025 (P-65)(2014)(RA)(2019)	*BLQ(**LOQ 0.001 mg/t)	Shigh	0.01	No Retaining	
29.	Arrenic as As	15 1025 (P-65):2014(RA-2019)	*BLQ***LOQ 8,005 mg/0	PREMIT	0.01	Nie Relasation	
30.1	Mensicy at Hg.	15 3025 (P-65):2014/RA;2019)	*BLO (**LOO a 0005 aut/)	-/1	0.001	No Retaration	
31	Total Collbent	IS 1622.2981, 9(A-2019	4	MPS/100ml	Shall not be ide 100 mi		
Ħ	f. Col.	IS 1622.1981.30A-2019	Albert	MPN/(00cd	Shall not be de	couple et my	

Note: - "HLO-Below Limit of Quantification," "LOC-Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Number:

DMSPL/NIOM/S01

Name & Address of Paris:

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidili, PO - Koira

Distt. Sundargarh, Odisha India.

Report No. Format No.

Party Reference No.:

DMSPL/S/BICO/2310/001

5.10 F-01

NIL.

Simple Description:

SOIL

Sampling Location: Simple Collected by

Sampling & Analysis Protocol:

Inside Mine Area.

1S-2720 & USDA

DMSPL Lab Representative

Reporting Date: Recesps Date: Sampling Date Type of Sampting: 30/10/2023 24/10/2023 20/10/2023

Sampling Quantity: Depth of Sampling Composite 2.0 Kg 30 cm

Packing Steins: Temp Scaled

SOME	Parameter	Protocol	Result	Unit
1	741 (ni 25 °C)	18 2720 (11-26,1987)	8.20	_
2.	Conductivity	15:14767-2000 Restliemed 2006	0.30	:mib/cm:
7.	Suil Texture	USDA Method, 1968	Sifty	-
4.	Color	USDA Method, 1968	Yelliwish	_
3.	Water holding capacity	USDA Method, 1968	22.40	761
fi	Bulk Amery	USDA Method, 1966	1.32	gm-cc.
7.	Chloride as Cf	USDA Method, 1968	25.20	mig/100gmi
8:	Calcion: as Ca	USDA: Method, 1968	32.50	mg/100gm
76.	Sodom in Na	USDA Memod, 1968	28.20	mg/100gm
10.	Potassion as K	USDA Method, 1968	:52:20	kg/fec
П	Organic Multier:	PS:2720 (P-22, 1972)	0.50	16
T.	Magnesion as Mg	USDA Mansid, 1908	11.20	7002/100pm
13.	Available Nitrogen as N	15:14684, 1999	175.20	kg/bcc.
14	Available Phosphonas	USDA, APHA-4500PC	35.20	kg/hitc.
13	Zinc as Zn	APBA-30300, APBA-3111B	4.29	.mg/100gm
16.	Marginese in Mr.	APHA-3030D, APHA-3111B	2.70	mg/100gen
12	Chromium to Cr	APHA-3030D, APRA-3111B	1(26)	mg/1.00gm
3.6	Fiendoodfit	APHA-30300, APHA-3131H	0.80	mg/190gro
10:	Cadmom as Cd	APHA-9000D, APHA-3111B	1.6%	mg/100gm
26.	Copper us Cu	APHA-BRIOD, APRA-3111H	1.12	mis/100mm



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Number:

DMSPL/NIOM/SW/01

Test-Report

DMSPL/SW/IIICO/2310/001

Name of the Project:

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

Party Reference No.: NIL

7.8 F-01

At Nadidib, PO - Koira Distt. Sundargarh, Odisha India.

Report No.:

Format No.:

25/10/2023

Sample Description:

Reporting Date:

Sampling Location:

Surface Water, Sample

Period of Analysis: Receipt Date:

18/10/2023-25/10/2023

Sample Callected by:

River Sample (Near Mines Upstream )

18/10/2023

DMSPL Lab Representative

15/10/2023

Preservation

Lee Box

Sampling Dute: Sampling Quantity:

2.0 Ltr + 250ml.

Sampling and Analysis.

APHA & 15, 23" Edition 2017

Sampling Type:

Cumposite

Protocol:

S. No.	Pacameter	Test-Method	Result	Unit
l.	ptCot(25 °C)	APITA (4500-FIT I) Electrometric Method	7.20	- 12
I.	Colout	APEA 2120 B. Visual Comparison Method	5.0	Husen
3.	Furtnitisy	APHA, 2130 B. Nephlefometric Method	- 81	NIU
à.	Odour	APHA: 2159 B., Threshold Text Method	Agrecable	
5	Yotal Hardonsons Call Oc	APHA 2340 C, EDTA Titrimetric Method	88.2	vig/I
b.	Calcium as Ca	APRA, 3500 Carll, EDTA Turimeric Method	:25;2	roig/T
ħ	Alkalmity as CaCO;	APITA , 2320 B, Thrometric Method	72-5	tright!
8	Chloride an Cl	APS(A, 4500-CT II, Argentometric Method	42.2	nigil
9.	Residual free Chlorine:	IS 3025 P-26. Ortho-tolumling Method	*BDE(**DE-0.15mg/f)	Page
in.	Cyanide as CN	APHA, 4500 CN D, Barbitune Acid Method	*1973(-1=+5)(_1)(02 mg/1)	mg/l
11:	Magnesium as Mg	APITA 3500 Mg B, Calculation Method	:615	mg/
121	Fotal Disselved Solids	APHA . 2540 C. Gravimentic Method	248	Tuer
EE	Total Suspended solids	APHA:2540 D. Gravimetric Method:	21.0	mg/l
14:	Dimolect Oxygen	APHA,4500 O B Indometric Method	62	mg/l
15.	Sciphola as SO <sub>4</sub>	APHA, 4500 F. Turbidinsetric Method	262	regil
16.	Phistody as F	APHA, 45004F D, SPADNS Method	0.20	311/1
1%	HOD (3 Days id 27%)	APHA, 5210/0 / IS 3025;B-44	12.10.	ingil
18.	COD	APHA, 5220 B. Open Reflux Method	38.20	mg/l



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample	No. DMSPL/NIOM/SW/01	Report No.: DMSPL	SW/BICO/2310/0	
S. No.	Parameter	Test-Method	Result	Daix
39.	Conductivity on 25°C)	APHA, 2510 H. Conductivity Meter Method	0.42	m5/cm
-20-	Nitraticas NOs	rs 3025 (P-34) .Chromotropic Method	62	mg;/(
21	Sodium as No.	APHA, 3500 Na II, Flame Phonometric Method	18.5	mg/1
22.	Potassium in X.	APHA 3500 KB, Flame Photometric Method	4.20	mg/1
29.	Ironus Fe	IS 3025 (P-65):2014(RA:2019)	0.20	mit/1
24.	Attiminium as Al	ES 3025 (1965):2014(RA:2019)	*80L[**DL 0.002 mg/I]	70g/1
25:	Buron	1S 3025 (P-65):2014(RA:2019)	*BDL(**BL0.002 mg/1]	mg/i
26.	Circomum as Cr	(S 3025 (F-65):2014(RA:2019)	*BOLL**DL (0.002 mg/1)	mg/2
27.	Phenone Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**D), 0.0004mg(l)	mg/1
28	#Mineral Oil	Chare 6 of 18:3025(Part 39)	*BDL(**DL 0.1 mg/0.	mit77
29	#Antonic Detergents ax MBAS	APHA, 5540 C MBAS Minhod	*BDL(**D), 0.05 mg(1)	m(II/7
38.	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL (0.05 mg/l)	mg/l
31.	Серирет ил Си	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL0.1 mg/t)	mg/l
32.	Mangahese as Mri	19/3028 (P-65):2014(RA:2019)	*BDL(**DL0.01 mg/b	mg/1
33	Cadminim as Cd	LS 3025 (15-65):2014(RA:2019)	*HDL/**DL 0.002 mg/l)	mazi
34	Tend Celiforo	IS 1622,1981, RA-2019	300	MPN/100ml
35.	Fexal Coliform	IS 1622,1981, RA-2019	190	MPN/100ml

<sup>\*</sup>BDL-Below Detection Limit, \*\*DL- Detection Limit

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Number:

DMSPL/NIOM/SW/02

Name of the Project:

M/s Nadidih Iron & Mn Mines,

Under ESL Steel Limited, (Feegrade)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Sample Description:

Surface Water Sample

Sampling Location:

River Sample (Near Mines Downstream )

Sample Collected by:

DMSPL Lab Representative

Preservation:

fee Bux

Sampling and Analysis

APHA & 18, 23" Edition 2017

Protocul:

DMSPL/SW/BICIO/2310/002 Report Nu.:

Format No.:

7.8:F-01

Party Reference No.: NIL.

Reporting Date:

25/10/2023

Period of Analysis:

18/10/2023-25/10/2023

Receipt Date:

18/10/2023

Sampling Date: Sampling Quantity:

15/10/2023 2.0 Ltr = 250 ml

Sampling Type:

Comptosite

S. No.	Parameter	Test-Method	Result	Unit
	pH (m 25 °C)	APHA (4500-H* B Electrometric Method	:7:20	_
2	Colour	APHA .2120 B. Visual Comparison Method	10.0	Hazen
3;	Turbidity	APHA, 2130 B. Nephlelometric Method	i di	RTU
4	Офия	APHA, 2150 B., Threshold Test Method	Agreeuble.	
5.	Total Hardness as CaCO	APHA 2340 C. EDIA Timmettic Method	82.1	7Fq/7
61	Calcium ip Ca	APHA, 3500 Ca B. EDTA Torosettic Method	24.2	ngri
T.	Alkalinity at CaCO <sub>1</sub>	APITA . 2320 B. Titrimetric Method	70.2	Hig/L
£	Chlunde as Cl	APIJA, 4500-CT B, Argentometric Method	32.20	Fign
9.1	Mesidial free Chlorine	JS 3025 P-26, Ortho-tolantine Method	*BDL(**DL-9.15ing/l)	rigil
Fib.	Cynnide as CN	APHA, 4500 CN D. Barbituric Acid Method	*8DL(**DL0.02 mg/l)	mgA
11:	Мидпенити Мд	APEIA: 3500 Mg/B; Calculation Method	5.2H	Ligar
(2)	Total Disselved Solids	APHA 2540 C. Graving Method	238.0	mg/l
13.	Total Suspended solids	APHA 2540 D. Gravimettis Method	200	mg/l
141	Dinnilved Oxygen	APEDA 4500 O B. Jodanictije Methad	6.2	Ing/I
15	Sulphate as SO <sup>2</sup>	APHA: 4500 E. Turbidimeine Mediod.	32.14	mg/I
16	Floorade as F	APHA , 4506-F D, SPADN'S Method	0,25	mg/T
ļ:	BOD (3 Days at 27%)	AP41A, 5210 C 115 3025;F-44	9.20	mg/l
18	COD	APHA, 5220 B. Dean Reflier Method	34:107	100/A





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Samplic	No.: DMSPL/NIOM/SW/02		Report No. DMSPL	SW/BICO/2310/8
S. Na	Parameter	Test-Method	Result	Unit
19.	Constructivity (at 25 °C)	APHA, 2510 B, Conductivity Meter Method	0,390	mS/cm
20.	Nitrate at NOs	IS 3025 (P-34) Chemiotropic Method	4.20	mg/t
21.	Sodium as Na	APHA,3500 Na B, Flamir Photometric Method	28.20	ing/L
22.	Paramount as K	APHA 3500 KB, Flame Photometric Method	5.40	mg/E
23.	Iron as Fe	TS 3025 (P+65):2014(RA:2017)	*nDL(**D); 0.002 mg/1)	mg/l
2.6	Alumigrum as Al	is 3025 (P-65 o 2014)RA (2019)	*HDL(**DL 0.002 mg/T)	mg/1
28	Worse	IS 3025 (P-65):2014(RA-2019)	0:20	mg/l
26.	Chromium as Cr	IS 3025 (P-65): 2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/i.
27	Phenolic Compounds	APHA, 5530 C Choroform Extraction Method	*Ef/XE,(**f)XE, (0.0004mg/1)	mg/l
28.	#Mineral Oll	Clause 6 of (5::50,25(Part 39)	*BUSE (**DL 0.1 mg/l)	ing/
79.	#Among thriergents as MBAS	APHA, 5540 CMBAS Method	(figur 20 0 ,K1*+1,K1B+	mg/I
30	Zincus Zir	FS 3025 (P-65) 2014(RA-2019)	*BDL(**DL(0.05 mg/l)	: mag/I
91	Copper za Cu	IS 3023 (P-63) 2014(RA-2019)	*BDL(**DL 0.1 mg/0:	mg/i
32	Mangamese atrMis	IS 3025 (P-65):2014(RA:2019)	*HDL(**DL,0.61 mg/l)	mg/I
33	Codminum as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**D1. (r.002 mg/l)	mg/l
34.	Total Coliforn	18 (622,1981, RA-2019.	280	MPN/100ml
35.	Fecal Coliforni	IS 1622,1981, RA-2019	(B0	MPN/100m

<sup>\*</sup>BOL-Below Detection Limit, \*\*(X - Detection Limit

Checkert By)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Noorher:

DMSPL/SW/NIOM/01

Report Nu.

DMSPL/WW/BICO/2310/001

Name & Address of Party:

Mrs Nadidily fron Ore Mines,

Fernial Na.: Farty Reference No.: NIE

7.8 F-03

Under ESL Steel Limited, (BICO) At Nudidih, PCF- Kuira Distr. Sundargarh, Odisha tudia.

Reporting Date:

20/10/2023

Sample Description:

Waste Water Washing Water Inlet: 20/10/2023 to 20/10/2023

Sampling Location: Sample Collected by: DMSPI. Representative

Sampling Date:

12/10/2023 10/10/2023

Preservation:

Helrogerated.

Sampling Sealed: Sampling Quantity:

Period of Analysis:

Receipt Date:

Grab 2.5 Ltr.

Sampling & Audysis Protocol:

15-3025 & APITA

TEST RESELTS

S. No.	Parameter	Test-Method	Result	Unit
т	pH (= 21 °C)	36 3028495115	8740	-
2	Listel Disselved Solids :	18:3025 (8:16)	380	Mark
3	Tred Superited Solids	85, 3023 (8-37)	450	Mg/L
10	Chemical Overpre Distance	BS: 1025-(H-SH)	540	Made
3	Bochemical Chygne Demind	95, 3023 (P-44)	i M5	Mart
9	Oil & Greate	(S; 3077 (P-39)	13.6	546%
2	Trial Cultified	APSIA 20st E0st=0.9221E (RA 2019)	600	507N/300 m/s

<sup>\*</sup>HLO below Lottle of Quantification, \*\*LOQ-Limit of Quantification

TATELIS HE Hisporites.



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/SW/NIOM/02

Name & Address of Party:

M/s Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO)

At Nadidib. PO - Knira

Distt. Sondargieth, Odisha India.

Waster Water Sample Discription:

Sampling Location: Sample Collected by: Washing Water Discharge

Preservation:

Refrigerated

Sampling & Analysis Protocol:

DMSPL Representative

15-3025 & APHA

Report Nu-

D51SPL/WSV/BIC O/2310/002

Format No.:

2.8 1-03

Party Reference No.:

Sit

Reporting Date:

20/10/2023

Peeind of Analysis:

20/10/2023 to 20/10/2023

Receipt Date:

F2/10/2023

Sampling Date:

10/10/2023

Sampling Scaled:

Grab

Sampling Quantity:

2.5 Ltr.

TEST RESULTS

					Standards for Di	scharge at	par CPCB
S. No.	Parameter	Test-Method	Result	Unit	In-Lamb Surface Water	Public Sewers	Land for Irrigation
1	pHos(25%)	15 3025 (N/T)	733		5,5-9.0	3,349,6	53.90
I.	Total Dissessor Solids	16, 3025 (15.0%)	650	3500	71.	100	2100
- 6	Total Swomskel Stricts	45 36214P-171	32.5	Midtel	100	(600	200
(4)	Chemical Dispersible	35, 9025 (550)	8/2	5443.	250.0	1.00	22
1.	Biological Overgen	(6. 3025 (PAI)	12.2	Marin	Bin	33111	100.0
h:	Diff. Genut	45. 8025 (0:34)	53.	Mg/L	10.0	20.0	10.0
7	Tital Citiente	APRIA 2 Sel Estado 9221E (RA 2019)	120	MPSTOO HE		-	

Sour - This Report Complies at per 25, 3025

has been of Report to



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<sup>\*</sup>SICO-Below Corns of Quantification, \*\*LOQ-Lores of Quantification



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/01-09

Mrs Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distf. Sundargarts, Odisha India.

Report Nor Reporting Date: DMSPL/AA/BIC/2311/001-009

06/12/2023 Ref. No:

NIL.

Monitoring Period:

1" Nov. 2023 to 30" Nov. 2023

Equipment Used: Protocol Used:

RDS & FPS with all accessories 18-5182 & CPCB Guidelines

Sample Collected By:

Sample Description:

Locations Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Near Mine Office (A1)

21" 58"99" N

Parameter Required: Customer Name: Sample Condition

Nadidit Iron Ore Mines

Longitude:

Guod/Clear 85° 15'33" E

As per EC Letter

#### RESULTS

Date	PM <sub>18</sub> (ng/m <sup>3</sup> )	PM2.5 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO: (µg/m²)	CO (mg/m3)
01.11.2023	64.2	47.3	15.2	25.4	0.63
04.11.2023	67.4	43.9	16.6	35.5	0.64
B5,11,2023	743	42.9	18.4	23.6	0.62
11.11.2023	62.8	46.5	15.5	33.2	0.64
12.11.2023	71.9	45.1	18:2	29.6	0.71
18.11.2023	75.9	27,9	17.2	28:2	0.53
19.11.2023	76.2	-35.8	120.78	22.9	0.52
25.11.2023	68.9	26.2	193:	243	0.54
26.11.2023	75.3	393.	183	22.1	0.52

	Parameter	PMra (µg/m²)	(µg/m²)	SO <sub>1</sub> (jig/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
Limit as	-50	100	60	60	80	4
NAAQS+	Method of Analysis	IS 5182 (Part -23)	18 5182 (Part - 24)	15 5182 (Part – 2)	1S 5182 (Part - 6)	ES 51829 (Part - 10)

National Ambient Air Quality Standards.

""End of Test Report"



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/10-18 M's Nadidih Iran Ore Mines, Under ESL Steel Limited. (BICO)

At Nadidib, PO - Kolra

Distr. Sundargarti, Odistra India.

Ref. No:

DMSPL/AA/BIC/2311/010-018 Report No: Reporting Date:

06/12/2023

NIL

Monitoring Period:

1" Nov. 2023 to 30" Nov. 2023 RDS & FPS with all accessories

Equipment Used: Protocol Used:

15-5182 & CPCB Guidelines

As per EC Letter

Parameter Required: Customer Name:

Nadidih Iron Ore Mines

Sample Condition Longitude:

Good/Clear 85° 15'44" E

Sample Collected By:

Sample Description:

Location: Latitudes Ambient Air Quality Monitoring

Near Mines Gate (A2)

DMSPL Representative

21" 58"23" N

#### RESULTS.

Date	PM(a. (µg/m²)	PM <sub>2.2</sub> (µg/m <sup>2</sup> )	SO <sub>L</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>2</sup> )	CO (mg/m3
01.11.2023	86.9	45.5	19.8	32.5	0.72
04.11,2023	84.7	/45.2	18/7	28.4	0.95
05,11,2023	86.2	393	16.9	25.7	0.88
11.11.2023	76.9	45.4	17.3	32.5	0.84
12.11.2923	81.4	37,3	19.2	25.6	0.98
18,11.2923	#4.5	47.4	15.6	24.5	0.93
19.11.2023	67.4	43.9	16.6	35.5	0.64
25.11.2023	743	42.8	184	23.6	0.62
26.11.2023	62.B	46.5	15.5	33.2	0.64

	Parameter	PM <sub>IR</sub> (µg/m²)	(µg/m²) /	50; (µg/m³)	NO <sub>2</sub> (µg/m <sup>3</sup> )	(mg/m <sup>3</sup> )
Limit as	77.	100	60	80	80	4
VAAQ5*	Method of Analysis	IS 5182 (Part - 23)	15 5182 (Part - 24)	15 5182 (Part - 2)	(Part – 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

"" End of Test Report""



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Lucation:

Latitude:

DMSPL/AA/N10/19-27

M/s: Nadidib Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Kura

DMSPL Representative

Village - Kenduhidi (A3)

Distr. Sundargark, Odisha India.

Ambient Air Quality Monitoring

Report No:

Ref. No:

Reporting Date:

DMSPL/AA/BIC/2311/019-027

06/12/2023

NIL

Monitoring Period:

1" Nov. 2023 to 30th Nov. 2023 RDS & FPS with all accessories

Equipment Used: Protocol Used:

1S-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

Sample Condition Longitude:

As per EC Letter Nadidik Irun Ore Mines

Good/Clear 85" 16'14" E

21° 59'45" N

#### RESULTS

Date	(sig/m²)	PM <sub>1.6</sub> (µg/m <sup>2</sup> )	SO <sub>2</sub> (jig/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>2</sup> )	CO (mg/m3)
02.11.2023	67.5	6.84	17.7	28.4	0.68
06.11.2023	64.2	25,4	7.1	16.4	0.51
07.11.2023	59.3	313	7.5	16.8	0.56
13.11.2023	90.4	27,9	8.1	15.9	0.56
14.11.2023	59.5	30/4	8,5	38.1	0,52
20.11.2023	67.5	48.6	37,7	28.4	0.68
21.11.2023	64.2	25A	7.1	16.4	0.51
27.11.2023	59,3	313	7.5	16.8	(156
28.11.2023	5.89	37.4	8:7	18.7	0.85

Limit as	Parameter	PM or (rig/m²)	PN12.s (µg/m³)	SO <sub>2</sub> (µg/m <sup>3</sup> )	NOz (µg/m³)	(mg/m <sup>2</sup> )
		100	60 /	80	80	4
NAAQS*	Method of Analysis	18 5182 (Part - 23)	15:5182 (Part - 24).	IS 8182 (Part - 2)	18 5182 (Part - 6)	1S 5182 (Part – 10)*

National Ambient Air Quality Standards

""End of Test Report"



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Project:

Lucations

Latitude

DMSPL/AA/N10/28-36

M/s Nadidih fron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Kotra

Destt. Sundargarb, Odisha India.

Report No:

Reporting Date:

DM5PL/AA/BIC/2311/028-036

06/12/2023

Hef. No:

Monitoring Period: Equipment Used:

1" Nov. 2023 to 30" Nov. 2023 RDS & FPS with all acresonries

Protocol Used:

15-5382 & CPCB Guidelines

Parameter Required; Customer Same:

Sample Condition Longitude:

As per EC Letter Nadidih Iron Ore Mines

Good/Cleur 85" 18"33" E.

Sample Description:

DMSPL Representative Ambient Air Quality Monitoring Village Badipada (A4)

211 38 94" N

RESULTS

Date	(90/m²)	PM <sub>2,2</sub> (μg/m <sup>2</sup> )	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m3)
02.11,2023	75.3	42.8	10.4	23.6	0.62
06.11.2023	62.8	46.5	15.5	33.2	0.64
07.11.2023	71.9	45.1	18.2	29,6	0.71
13.11.2023	67.5	48.6	17.7	28.4	0.68
14.11.2023	64.2	25.4	7.1	16.4	0.51
20.11.2023	59.3	313	7.5	16.8	0.56
21.11.2023	66.4	27.9	8.1	15.9	
27.11.2023	59.5	30.4	8.5	18.1	0.56
28,11,2023	62.8	46.5	15.5	33.2	0.52

	Parameter	PM (m)	(µg/m²)	SO: (ng/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	C() (mg/m³)
Limitas	-	100	60	80	80	4
NAAQS*	Method of Analysis	18 5182 (Part - 23)	IS 5182 (Part - 24) -	1S 5182 (Part - 2)	15 5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the Project:

Sample Collected By:

Sample Description:

Locations

Lutitude:

DMSPL/AA/NTO/37-45 Mr. Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidib, PO - Koira

Distr. Sundargarh, Odisha India;

DMSPL Representative

Ambient Air Quality Monitoring

Village Jhirapani (A5)

21° 59'58" N

Report No:

DMSPL/AA/BIC/2311/037-045 06/12/2023

Reporting Date: NIL

Ref. No:

Manitoring Period:

Equipment Used:

1" Nov. 2023 to 30" Nov. 2023 RDS & FPS with all accessories 1S-5182 & CPCB Guidelines

Protocol Used: Parameter Required:

Customer Name:

As per EC Letter Nadidih Irun Ore Mines

Sample Condition Good/Clear Longitude 85" 13'10" E

### RESULTS

Date	(pg/m <sup>2</sup> )	PM <sub>13</sub> (µg/m <sup>2</sup> )	SO <sub>1</sub> (µg/m²)	NO; (µg/m²)	CO (mg/m3)
03.11.2023	56.3	44.8	26,7	25.8	0.61
08.11.2023	64.2	47.3	15.2	25.4	0.63
09.11.2023	67.4	43.9	16.6	35.5	0.64
15.11.2023	74.3	42.8	18.4	23.6	0.62
16:11:2023	62.8	46.5	15.5	33.2	0.64
22.11.2023	7.1.9	45.1	18.2	29.6	0.71
23.11.2023	67.5	48.6	12.7	28.4	0.68
29.11.2023	63.9	46.4	17.9	25,6	0.63
30.11.2023	61.3	21.4- /	6.5	18,1	0.55

	Parameter	PM <sub>iii</sub> (jig/m²)	PM25 (µg/m²)	SO <sub>2</sub> (µg/m²)	NO <sub>2</sub> (µg/m <sup>5</sup> )	CO (mg/m <sup>2</sup> )
V-1000000000000000000000000000000000000	, éw:	100	60	80	80	14
	Method of Analysis	(8 5182 (Part - 23)	15 5182 (Part - 24)	15 5182 (Part – 2)	15 5182 (Part - 6)	15 5182 (Part - 10)

National Ambient Air Quality Standards.



Note: -

"\*End of Test Report"

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Piot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Nu:

Name & Address of the

Project.

DMSPL/AA/NIO/46-54

M/s Nadidih Iran Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distr. Sundargarh, Odisha Imlia.

Report No: Reporting Date:

Ref. No.

DMSPL/AA/BIC/2311/046-054

06/12/2023

NIL.

Monitoring Period:

Equipment Used:

1" Nov. 2023 to 38" Nov. 2023 RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Sample Callected By: Sample Description:

Lucation: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Village Kashira (A6)

21" 55"10" 5

Parameter Required:

Customer Name: Sample Condition

Nadidih Iron Ore Mines Good/Clear

Longitude:

### 85° 15'20" E

As per EC Letter

#### RESULTS

Date	PM <sub>10</sub> (µg/m <sup>2</sup> )	PM <sub>2.8</sub> (pg/m <sup>2</sup> )	SO <sub>2</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (ug/m <sup>2</sup> )	CO (mg/m3)
03.11.2023	56.4	27,9	8:1	15.9	0.56
08.11.2023	59.5	30.4	8.5	18.1	0.52
09.11.2023	56:3	27.4	9:0	17.4	0.56
15.11.2023	61:3	21,4	6.5	181	0.55
16.11.2023	53.4	26.4	8.5	17.3	0.51
22.11.2023	59.5	30.4	0.5	18.1	0.52
23.11.2023	56.3	27.4	9.0	17.4	0.56
29.11.2023	61.3	21/4	8.5	18.1	0.55
30.11,2023	62.8	46.5	15:5	112	0.64

	Parameter	PM <sub>10</sub> (μg/m <sup>3</sup> )	PM <sub>2,8</sub> (acg/m <sup>3</sup> )	SO <sub>1</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m²)
Limit as per		100	60	80	80	4
NAAQS*	Method of Analysis	15 5182 (Part - 23)	IS 5182 (Purt - 24)*	18 5182 (Part - 2)	18 5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

DMSPE/AA/NIOM/01

M/s Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO) At Nadidih, PO - Kuira

Distr. Sundargorb, Odisha India.

Ambient Air Quality Monitoring

Report No: Reporting Date:

Ref. No:

DMSPL/AAM/BICO/2311/001

06/12/2023

NIL

Monitoring Period:

Equipment Used:

RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

Protocol Used:

Longitude:

Parameter Required:

Customer Name: Sample Condition As per EC Letter Nadidih Iron Ore Mines

November 2023

Good/Clear 85° 15'33" E

Location: Latitude: Near Mine Office (A1) 21° 58'09" N

DMSPL Representative

### RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrim
	(ug/m²)	(µg/m²)	(ag/m²)	(mg/m²)	(ng/m3)	(µg/m²)	(ug/m3)
02.11.2023	26.2	36.5	<0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	Ozone (µg/m²)	Ammonia (µg/m²)	Lead (ug/m³)	Nickel (ng/m²)	Arsenic (ng/m3)	Henzene (pg/m <sup>2</sup> )	Benzo(n)pyrino (ng/m3)
Limit as	200	180	400	1	20	6	5	1
NAAQS*	Method of Analysis	15 5182 (Part – 9)	IS 5182 (Part - 25)	IS 3482 (Part - 22)	18 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part – 11)	18 5182 (Part – 12)

National Ambient Air Quality Standards.

"End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 15O-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sansple Nac

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIOM/02

DMSPL Representative

Near Mines Gate (A2)

M/s Nadidili Irun Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distt, Sundargarb, Odisha India.

Ambient Air Quality Monitoring

Report No:

DAISPL/AAM/BICO/2311/002

Reporting Date: 06/12/2023 Ref. No:

NIL.

Monitoring Period:

November 2023

Equipment Used:

RDS & FPS with all accessories 15-5182 & CPCB Guidelines

Protocol Used:

Parameter Required: As per EC Letter

Customer Name:

Nadidik Iron Ore Mines

Longitude:

Sample Condition

Good/Clear 85" 15'44" E.

21° 58'23" N

RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m²)	(µg/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m5)
06.11.2023	22.5	35.6	<0.05	<0.05	< 0.50	×5.0	<1.0

	Parameter	Ozune (µg/m²)	Ammonia (µg/m²)	Lend (µg/m²)	Nickel (ng/m²)	Amenic (ng/m3)	Benzene (ng/m²)	Henzo(n)pyrine (ng/m3)
Limit as	-	180	400	ï	20	6	5	3)
NAAQ5*	Method of Analysis	IS 5182 (Part - 9)	15 5182 (Part - 25)	15-5182 (Part - 22)	18 5182 (Part – 26)	As per CPCH By AAS	18 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

\*\* End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Not

Name & Address of the

Sample Collected By:

Sample Description:

Project.

Location:

Latitude:

DMSPL/AA/NIOM/3

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidib, PO - Kotra

DMSPL Representative

Distt. Sundargarh, Odisha India,

Ambient Air Quality Monitoring

Report No:

Reporting Date: Ref. No:

06/12/2023 NIL

Monitoring Period:

November 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

18-5182 & CPCB Guidelines

DMSPL/AAM/BICO/2311/003

As per EC Letter

Customer Name:

Parameter Required:

Nadidih Iron Ore Mines

Sample Condition Longitude:

Good/Clear 85° 16"14" E

Village - Kenduhidi (A3) 21' 59' 45" N

#### RESULTS

Date of Sample	Ozone (µg/m²)	Ammonia (µg/m²)	Lead (sig/m <sup>1</sup> )	Nicket (ng/m²)	Arsenie (ng/m3)	(jeg/m <sup>3</sup> )	Benzo(a)pyrina (ng/m3)
12.11.2023	243	38.2	<0.05	<0.05	r0.50	<5:0	<7.0

	Parameter	Ozone (ug/ne <sup>1</sup> )	Anymonta (µg/m²)	Lead (jig/m <sup>3</sup> )	Nickel (ng/m <sup>3</sup> ).	Aesenic (ng/m3)	Benzene (µg/m²)	Henzota)pyrine (ng/m3)
Limit as	=	180	400	1	20	6	5	31,
NAAQS*	Method of Analysis	1S 5182 (Part - 9)	18 5182 (Part – 25)	18 5182 (Part - 22)	18 5182 (Part - 26)	As per CPCB B) AAS	1S 5182 (Part -11)	18 5182 (Part - 12)

National Ambient Air Quality Standards.

"End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 15O-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIOM/4

M/s Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO)

At Nadhtih, PO - Koira

DMSPL Representative

Distr. Sundargarh, Odisha India,

Ambient Air Quality Monitoring

Report No.

Reporting Date:

DMSPL/AAM/BICO/2311/004 06/12/2023

NIL

Ref. No:

Monitoring Period:

Equipment Used:

November 2023

RDS & FPS with all accessories IS-S182 & CPCB Guidelines

Protocul Used:

As per EC Letter

Parameter Required: Customer Name:

Sample Condition

Nadidih Iran Ore Mines Good/Clear

Longitude:

85° 18'33" E

Sample Collected By: Sample Description:

Location: Latitude:

Village Badipada (A4) 21" 58'04" N

#### RESULTS

Date of Sample	Ozone (ng/m²)	(µg/m²)	Lend (Mg/m <sup>3</sup> )	Nickel (ng/m²)	Arsente (ngm3)	Henrene (jeg/m <sup>-)</sup> )	Benzo(a)pyrine (ng/m3)
16.11.2023	252	39.6	<0.05	<0.05	<0.50	<5.0	<1.0

	Farameter	Ozone (ng/m²)	Ammonia (µg/m²)	Lead (µg/m³)	Nickel (ng/m³)	Arsenic (ng/m3)	Bettzene (pg/m²)	Benzo(a)pyrine (ng/m3)
Limit as	= b	180	400	1	20	.6	5.	1
NAAQS*	Method of Analysis	IS 5182 (Part - 9)	IS 5182 (Part - 25)	15 5182 (Part – 22)	IS 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	15 5182 (Part – 12)

National Ambient Air Quality Standards.

\*\* End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIOM/5

Ma Nadidih Iran Ore Mines, Under ESL Steel Limited, (BICO)

At Nadhfih, PO - Knira

Distt. Sundargarh, Odisha India.

Report No:

DMSPL/AAM/BICO/2311/005

Reporting Date:

06/12/2023 NIL

Ref. No:

Monitoring Period:

November 2023

Equipment Used: Protocol Used:

RDS & FPS with all accessories 15-5182 & CPCB Guidelines

Parameter Required: As per EC Letter

Customer Name: Sample Condition Nadidih Iron Ore Mines

Longitude:

Good/Clear 85° 13'10" E

Sample Collected By: Sample Description:

Location: Latitudes

DMSPL Representative

Ambient Air Quality Monitoring

Village Jhirapani (A5)

21° 59'58" N

#### RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenie	Benzeue	Benzo(a)pyrin
	(µg/m²)	(µg/m³)	(µg/m²)	(ng/m²)	(mg/m3)	(µg/m <sup>7</sup> )	(ng/m3)
20.11.2023	265	39.8	< 0.05	< 0.05	₹0.50	<5.0	<1.0

Limit as per NAAQS*	Parameter	Ozone (µg/m³)	Amononia (jeg/m²)	Lead (µg/m <sup>3</sup> )	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (pg/m³)	Benzo(a)pyrine (ng/m3)
	246	180	400	1/	20	6	5	1
	Method of Analysis	18 5182 (Part – 9)	15 5182 (Part - 25)	15 5182 (Part – 22)	18 5182 (Part - 26)	As per CPCB By AAS	15 5182 (Part - 11)	15 5182 (Part - 12)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*

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  - 3. Sample will be destroyed after one week from the date of issue of test certificate.
  - 4. The results are related to the test items only.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Projecti

DMSPL/AA/NIOM/6

M/s Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarb, Odisha India.

Report No: Reporting Date:

Ref. No:

DMSPL/AAM/HICO/2311/006

06/12/2023

NIL

Monitoring Person!:

Equipment Used:

November 2023

RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

Sample Condition Langitude:

As per EC Letter Nadidih Iron Ore Mines

Good/Clear 85° 15'20" E

Sample Collected By: Sample Description:

Location:

Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Village Kashira (A6)

21" 55"10" N

RESULTS

te of Sample	Ozone (µg/m³)	(ag/m <sup>2</sup> )	Lead (ng/m²)	Nickel (ng/m <sup>3</sup> )	Arsenic (ng/m3)	Benzene (ng/m <sup>2</sup> )	Benzo(a)pyvine (ng/m3)
5.11.2023	26.6	40.4	The second second second	-0.0E		11.500.000	*5.0
5.11.2023	36.6	40.4	< 0.05	<0.05	<0.50	<5.0	

	Parameter	Ozone (ng/m³)	Ammonia (µg/m²)	Lead (µg/m²)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (jug/m²)	Benzo(a)pyrine (ng/m3)
Limit as per NAAQS*	8. <sub>01</sub>	180	400	i	20	6	5	1
	Method of Analysis	15 5182 (Part -9)	IS 5182 (Part - 25)	15.5182 (Part – 22)	15 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	15 5182 (Part – 12)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Sample Name:

Project:

DMSPL/AN/NIOM/01-08 Mrs Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Kolra

DMSPL Representative

Noise Level Monitoring

Ambient Noise Manitoring

Dixtt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AN/BICO/2311/001-008

06/12/2023

Ref. No:

NIL

I" Nov. 2023 to 30" Nov. 2023

Monitoring Period: Equipment Used:

Sound Level Meter

Protocol Used:

15-9989

Parameter.

As per Govt. Standard

Required:

Customer Name:

Nadidih Iron Ore Mines

Sample Condition

Good/Clear:

### RESULTS

Sr. No.	Location	Date	Latitude:	Longitude:	Day Time [dB(A)]	Night Time [dB(A)]
1	Near Mine Office	04.11.2023	21° 58'09" N	85" 15"33" E	(66.3)	59.4
2	Near Mines Gate	09.11.2023	21° 58'23" N	85° 15' 44" E	64.4	513
	Standard Li	75.0	70.0			
3	Village Kerdubidi	13.11.2023	21"-59"45" N	85" 16"14" E	53.4	42.2
4	Viltage Badipada	17,11,2023	21" 58'04" N	85° 18'33" E	53.5	40.5
5	Village Ihirapani	19.11.2023	21° 59'58" N	85" 13'10" E	50.6	40.2
6	Village Kashira	21,11,2023	21° 55'10'T N	85" 15"20" E	53.6	39.1
-	Upwind Direction	25.11.2023	21"58"14" N	85° 15'20" U	52.4	41.6
8	Downwind Direction	28.11.2023	21° 57° 19° N	85" 13"34" E	52.3	44.5
	Standard Lin	nit Residentia	Area as per CPC	8	55.0	45.0

CPCB :- Central Pollution Control Board

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Nor:

Name & Address of the

Project:

DMSPL/AAES/NIOM/01

M/s Nadidik Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

Report No:

DMSPL/AAFS/BICO/2311/1-6

Reporting Date: 06

06/11/2023 NIL

Ref. No: Monitoring Period:

14 Nov. 2023 to 30th Nov. 2023

Equipment Used:

RDS with all accessories

Protocol Used:

15-5182

Parameter Required:

As per TOR Letter

Sample Collected By: Sample Description: Sample Type:

DMSPL Representative

Ambient Air Quality Monitoring

Free Silica Composition

RESELTS

### Chemical Composition of PM 10 with Free Silica

Location	Date	PM(0 (ng/m²)	Free Silica	Ca (pig/m²)	Mg (µg/m²)	Ni (ing/m²)	(µg/m <sup>3</sup> )
Neur Mine Office	05.11.2023	74.3	2.0	1.02	0.26	<0.5	9.09
Near Mines Gate	11.11.2023	76.9	1.8	1.10	0.28	<0.5	8.08
Village - Kenduhidi	13:11:2023	66.4	2.1	1.12	0.20	<0.5	0.07
Viltage Bindipada	20.11.2023	59.3	2.0	1.05	0.24	<0.5	9,09
Village Jhirapani	23,11,2023	67.5	1.9	1010	0.25	<0.5	0.08
Village Kashira	29.11.2023	61.3	2.0	1.12	0.20	<0.5	0.09

\*\*End of Report \*\*



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4. The results are related to the test items only.

Tentagonomora



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Sample Name:

Project:

DMSPL/FD/NIOM/01-08 M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidills, PO - Koira

DMSPL Representative

Ambient Air Monitoring

**Fugitive Dust Sample** 

Distr. Sundargarb, Odisha India.

Report No:

Reporting Date:

Ref. Nu: Monitoring Period:

Equipment Used: Protocol Used:

Parameter.

Customer Name:

DMSPL/FD/BICO/2311/001-008

06/12/2023

NH 1" Nov. 2023 to 30th Nov. 2023

RDS & Personnel Dust Sampler IS-5182 & CPCB Guidelines

As per EC Letter

Required:

Sample Condition

Nadidih Iron Ore Mines

Good/Clear

### RESULTS

Sr. No. Date Latitud 1 Mine Benches Area 06.11.2023 21° 58'16 2 Haul Road 10.11.2023 21° 58'24 3 Crushing Plant 14.11.2023 21° 58'24	le: Longitude:	(mg/m <sup>2</sup> )
1 Mine Benches Area 2 Haul Road 10,11,2923 21° 58'16 3 Crushing Plant 14.11.2023 21° 58'24	W N 85° 15°16" E	940,40
2 Haut Road 14.11.2023 21° 58°24		955.80
Crushing Flant		1080.80
		870.20
4 Screening Plant 18.11.2023 21" 58'30		
4 (90) (10)	8" N 85" 15'10" E	920.30
5 Ore Loading Area 24,100		790,90
6 Waste Dump Area 28.11.2023 21° 58'3	E 3.5	

			l
Limit as per Consent*	Parameter	Suspended Particulate Matter (SPM 1200 µg/m³)	l

State Pollution Control Board, Odisha .

End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Samber:

Name & Address of the

Project.

DMSPL/GW/NIOM/91

M. Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadislih, PO - Koira

Distr. Sundargarh, Odisha India.

Report No.:

DMSPL/GW/BICO/2311/00H

Farmat No.:

7.8 F-01

Party Reference Na.: Reporting Date:

SIL

Ground Water Level:

25/11/2023 3.9 After

Sample Description:

Sample Location:

Sample Collected by

Sampling and Analysis Protocide

Ground Water Sample

Near Mine Site DMSPL Stepresentative

18 3025 & APHA 23rd Edition 2017

Period of Analysis:

14/11/2023-25/11/2023

Receipt Date: Sampling Date: 14/11/2023 10/11/2023

Sampling Quantity:

5.8 1.tr + 25hml

tee Box

Sampling Type:

Grift.

Power	saficit:	tee linx	Catalanti - Par		Limits of 1S:	HIROH - 7027
s, No.	Parameter	Test-Muthod	Hesalt	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
-	eterstro	APITA ASSISTED B Electromaters Method	7.90	-	0.51085	Ne Rithisation
X	Coher	APHA: 2120-B. Vitani Companion Method	*BLQ (**E0Q L0 Haze) :	Hazen		15
1	Tint-dity	APHA, 2110 H; Nephichmetric Method	900 Q (23) (00 T (0 NTU)	NEU		5
2	Other	APSIA, 2150 St., Threshold Colour Method	Agiveible	-	Agreeable	Agreeable
3.	Table	APEA . 2160 B. Threshold Test Method	Dinagrocable		Agrocable	Agreable
h	Tiotal Hardways an	APRA, 2340 C. EDTA Terimetric Method	160.20	me/s	200	600
-	Calcum a Ca	APHAL 2500 Ca B, EDT A Tärimetine Method	50:20	200	75	200
x	Afkarmity as CaCOs	APIKA . 2320 B. Titometric Medical	124.30	200g/I	3100	600
4	Otheride as Cl.	APHA, 4500-CF B. Argentometric Method	80.30	ring/	3.69	1000
100	Cyande at CN	APHA , 4500 CN D	*HEQ:*LOG 0.03 mg l)	itali	0.05	No Relaxation
11	Magremon pt Mg	APSIA , 3500 Mg B, Calimbition Method	7.30	751017	30	(166)
12	Total Dissolved Solids	APHA, 2540 C. Gravimura: Mellod	360.20	mig/l	5(0)	2000
13	Sulphote as SOs	APMA_4550 F., Turbidimeter Mathed	80.20	:mg/l	200	.400
:14	Flüncide as I	APHA, 4500-F. D. SPADNS Method	0.40	rig/I	LO	1.5:
15	Name of NO	25,5025 (P-34) Chromologic Meliod	21.50	Truns	35	No Relaxmon
	bei a fi	(5.3025 (P-65) 2014 (RA 2030)	9.24	.901	1.0	So relaxation
(0)	XIIIIIIIIIIII as Al	15 1025 (P-45) 2014(RA 2019)	*H1,Qc++1,O() 11,003 mg/l1	mi-F	0.03	6.2
33.	Barro	[S 3025 [P-05]-2014(RA)2019)	(fign #0.0 QO.1** QLIII*	mgt	9.5	2.4
19.	Chromies in Ci	[S 3025 (P-65):2014(RA:2010)	*BLQ(**LOG 0.002 mg/l)	Cmp/I	9.05	No Refundo



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample	No. DMSPL/GW/NIM	VE/0F1		Report No.: DMSPL/GW/2311/00				
					Limits of 15:10500 -2012			
s. Su	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible finit in the Alisence of Alternate Source		
26.	Plenilli: Cumpounds	APHA, 5520 C Chloroform Extraction Method	*(EX.Q(**1.0Q 0.0005 mg/l)	mat.	0.001	6.002		
21,	Strictal Oil	(Some 8 of 15 3025(Part 39)	*BLQ(**LOQ 6.1 mg/l)	figur	1,0	No Relipation		
22.	Attionic Detargants at MHAS	Annex K of 18 13428, 18 3625 (P-68)	*BLQ(**LOQ 0:05 mg/l)	nigit	0.2	1:0		
21	Residual free Chlorose	JS 3025 F-26, Ortho-tolaidine Method	*BDL(**DL 0.15mg/l)	mg/L	ä	-		
24.	Sixilini na Na	APHA,3500 Na.B. Flame Photometrs: Method	1930	might	H	÷		
25:	Potassitin Cas K	APHA 1500 K B. Flame Photomorne Method	6.20	mail.	++	=:		
26	Maio in Za	15 3025 (P-63):2614(RA/2019)	0.40		5	15		
27	Copper at Cit	15 3025 (P-65):2014(RA-2019)	0.20	Patti	0.05	1.5		
38	Mingings as Mil	IS 3025 (P-65):2014(RA:2019)	*HLQ**LOQ 0.01 mp1)	=g/1	4,0	0.3		
29.	Calminus Cd*	(\$ 5025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 ing 0	Age:	0.993	No Relaxation		
38.	Load in Ph	IS 3025 (P-65):2004(RA:2019)	*BLQ(**LOQ 0.002 mg f)	Hig/I	10.0	No Reignition		
31	Shimme St	IS 3025 (P-65) 2014(RA:2019)	*BILQL**LOQ.0.001 mg/l)	ma/i:	0.01	No Resention		
-32.	Ansanie in As	TS 30(3 (P-65) 2014(RA 2019)	*BLQ(**LOQ 0.065 mg/l)	=g/1	0.01	No Relaxation		
-35.	Mercury in Hg	IS 3625 (F-65):2014(RA:2019)	*HLQ1**LOQ 0.0005 htg/T	mug/F:	9,001	No Relaxation		
:34	Total Coliforn	15:1622,1981, RA-2019	-9	MPN/100ml	100 and	sumple		
38.	E. Coli	IS 1622,1981, RA-2019	Absent	MPS/100m/		enectable in any		

Note: - \*BLQ-Relow Limit of Quantification, \*\*I-OQ- Limit of Quantification



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Sumber:

Name & Address of the Project:

DMSPL/GW/NIOMDOZ Test-Report

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Korra

Distt. Sundargarh, Odisha India.

Report Nu:

DMSPL/GW/BICO/2311/002

Format Na.:

7.8 F-H1

Party Reference No.: Reporting Date:

NIL.

Genund Water Level: 4.4 Mr.

25/11/2023

Sample Description:

Sample Lincations

Sample Collected by: Sampling and Analysis Protocol:

Pregrettime

Ground Water Sample

Village Kenduhidi

DMSPI. Representative 18 3025 & APHA 23th Edition 2017

Period of Analysis:

14/11/2023-25/11/2023

Mescipt Date: Sampling thate:

14/11/2023 10/11/2023

Sampling Quantity:

5.0 Exr.+ 350ml

Sampling Type:

Grab:

		1 "			Limits of \$5:10500 -2012	
2.34	Parameter	Test-Method	Result	(R/min)	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
A.	pH (84.25°C)	APILA (4500-H) Il Electrometric Method	7.46	345	643083	No Relayation
2	Colour	APHA (2120 B; Visual Comparison Method	*BLQ (**1.00 1.0 Hazan)	Hazzn	5.	15
3	Terredity	APIAA, 2130 B, Nephlelometric Method	*BLQ C*LOQ L0 NTU)	NTU	3.	3
4	Oliver	APRIA, 2150 B., Threshold Odear Method	Appreciate	198	Agreeable	Agtrocabile
2	tiew.	APRA 2100 B. Threshold Test Method	Dis Narocubic		Agreeable	Agrousble
h	Total Hardson p. CaCOs	ABITA , 2340 C, EDTA Titrimetric Method.	270:20	mgH	200	600
X-	Cataino as Ca	APHA, 3500 Ca.B; EDTA Transmiss Method	50.30	mpf	75	200
Α,	Atlanting as CaCOs	APHA . 2320 B. Titrimetric Method	148.28	img/f	200	000
8	Chiarik as Chi	APHA, 4500-Cl H, Argentometric Mellind	78:20	figur	250	1000
100	Cyandrascon	APPIA 4500 CN D	*BLQ(**): OQ H#2:mm1)	HIGH	0,03	No Relaxation
U	Маркания в Мр	: A594A : 3300 Mg H. Calculation Method	8,10	reg/l	36	100
12.	Tidal Desolved Solids	APHA . 3540 C. Gracimetric Method /	349.29	Thurs	500	2000
13.	Sulphote as SO <sub>2</sub>	APHA _ 4500 E. Turnidimetric Method	48.20	mort	200	400
14	Flooride in F	APHA, 4500-F D, SPADN'S Method	0.10	mu/1	1.0	1.5
(5)	Nitratalas NOs	IS 3025 (P-34) Chromotopic Method	2.50	mu/i	45	No Reference
His	Irm as be	IS 3023 (P-65):2014(KA:2019)	0.24	mg/t	1.0.	Negotianites
171	Aliminiliancia Al.	15 3025 (P-65) 2914(RA-2019)	*BL(X**LOQ 0:005 mg/t)	mus/X	0.09	0.3
16	Bomit	15.3025 (P:65):2014(RA:3049)	"BLO(**LOO 0.01 mg/h	ing/1	113	2.4
190	Chillionian as Cr.	18 2025 (P-65):2014(RA:2019)	*HLQx**Lx3cz0.002 mg/l)	ang(T)	0.05	No Returnation



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample	No. DAISPL/GW/NIMN	0/02		strimit	No.: DMSPL	44.147440.107.000
					Limits of 18:10500 -2012	
5. Nn.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Aftersufe Source
20.	Psenidic Compounds	APHA, 5530 C Chloroform Extraction Method	*BLQ**(L0Q 0.0005 mg/l)	ing1	:0.093	0,002
21.	Mineral (Oil	Clause 6 of 15:3025[Part 39]	-introcestropics ments	TegyT	1.0	No. Retuxation
22.	Assistac Descriptions MBAS	Armes, K. of TS 13428, 18, 3628 (P-60)	*BLQ**COQ 0.05 mg/l)	mg/I	0.2	1.0
23	Residual Iyos Chiorins	15 3tt25 P-26, Ortho-why-line Method	*BEEL(**Ext. 0.15mg/T)	mg/T/c	- a	-
34	Sodium as Ne	APHA,3500 Na B. Flame Photometric Method	17.59	max	39	34:
125	Piparman as K	APHA 3500 K B. Flame Florometric Mathod	5.20	mgd	-	Fee 2
-26	Zinc = Vn	(5-3025 (P-65):2014(RA:2019)	1.24	mg/l	- 3	13.
27.	Copperus Cu	rs 3025 (P-65):2014(RA:2019)	0.10	ingl	0.05	1,3
29.	Manusnese as Mn.	15 3025 (P-65):2014(RA:2019).	*BLQ(**LOQ 0.01 mg/t)	mañ.	0.1	0.3
29	California de CA	th 3025 (P-65) 2914(RA-2019)	*BLQK**LOQ 0.002 ing/1)	mg/l	0.001	No Relaxition
30.	Loail as PN	1S 3025 (F63)(2014(RA-2019)	*BLQ(**1.00) 0.002 mg/b	:1980).	0.61	No Reluxatio
-31	Selement as Sc	18-3023 (P-65):2014(RA-2019)	*BLOC*1100 0.021 mg*)	100	0.03	No Relication
32	Arsenie ili Av	IS 3025 (P-65) 28H4(RA-2019)	*HLO(**) OQ 0.005 mg/0	Tayet	0.00	No Relaxation
11.	Mensury as Hg	15 3025 (P-65) 2014(RA-2019)	*H4.07.6**L 00.7 (0.0005.mg/l)	trig/	0.001	No Relistatio
34.	Tatal Californ	15 1622,0981, RA-2019	4	MPN(100ml	100 n	leiverable in my Laimple
35	E-Coli	.18.1622.1981, RA-2019	Openi	MENTHROOF		desectable in my disample

Note: -\*BLQ-Benw Control Quantification. \*\*LOQ-Unit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Sumbert

DMSPL/GW/NIOM/03

Name & Address of the Projec

Mrs Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Nandargarh, Odisha India.

Report No.:

DMSPL/GW/RICO/2311/003

Format No.:

Party Reference No.: NIL

2.8 F-01

Reporting Date:

25/11/2023

Ground Water Level: 4.6 Mtr.

Sample Description: Sample Location:

Sample Collected by:

Sampling and Analysis

Ground Water Sample

Village Badipada

DMSPL Representative

IS 3025 & APHA ZP\* Edition 2017

Period of Analysis: Receipt Date:

14/11/2023-25/11/2023 14/11/2023

Sampling Date:

10/11/2023

Sampling Quantity:

5.0 Ltr = 250ml

Sampling Type:

(Grade

Protovati Preservation:

fee flox

					Limits of 15:10500 -2012	
S. No.	Parameter	Test-Method	Result	Mait	Requiremen  I (Acceptable)  Limit	Permissible timit in the Absence of Alternate Source
3.	yH (a(.2510)	APHA .4500-H* B-Electrometric Method	(7:40)	90	65103.5	No Refusation
2	Kojour:	APSIA 2128 B, Visual Comparison Method	*BLO (**1.00 L0 Huen)	Haze (0)	- 3	15
ŪÜ.	Turbuidy	APHA, 3130 B. Superconnerve Method	*BLQ (**LOQ LØ NIT!)	NTU	1	.5
4	Odniir	APHA, 2130 B., Threshold Odour Method	: Agreable		Apresible	Agrocable
-5	Tarife	APHA , 2160 H, Threshold Test Method	Agrocable	0.0	Agresable	Agreeable
16.	Fotal Hardisers as Calcon	APRA , 2340 C, EDTA Titrimetric Method	(4)(.26)	ngili	206	3506
N	Calcium in Cir	APHA, 3500 Ca B, EDTA Titrasetric Midfold	50 20	min	75	200
HD	Alkalinds in CaCOs:	APHA , 2320 B, Turimeiric Method	12170	7896	200	600
3.	Chloride at CT	APHA, 4500-Cl. B, Argentovettic Method	X1.20	mel	250	1,000
М	Cyanide in CN	APHA 4896 CN: D	Theorem (Figure 1991)	Ingel	0:05	No. Relivation
11	Magnifilm as Mg	APHA - 3500 Mg B. Catestianos Method	3.56	mg#	20	1500
12	Tomi Durolved Solida	APHA , 2540 C; Cravimetric Method	368,20	nu/f	500	2009
13	Solyhate ar SOs	APFIA : 4500 E. Turbidimentic Method	92.40	mg/I	200	. 490
131	Thoride as F	APHA , \$500-F D, SPAINS Method	0.50	mgill	1.0	1.5
15	National policies	IS 3028 (P-14) Chimiotopic Melled	24.56	riig/l	85	No Relicuiti
(6)	Hoo on Ex	15:3025 (15:65):3814(RA:2019)	0.34	regit	1.8;	Norelassiin
32,	Aluminium as Al	tS 3025 (P-65):2014(RA:2019)	*BLQ(**LDQ 0.005 mg/t)	mgil	(0.03	0.2
Di	Boton :	IS 3025 (P-65):2014(RA:2017)	*INLO(**LOQ IL91 mil/li)	mp)	9.5	2,4
19	Chromitte as Cr	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.007 mg/b	figits	:0.05	No Relaxatio

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sangt	Sia DMSPL/GW/SIM	M/03	Report No: DMSPL/GW/2311/00.					
					Limits of 15:10500 -2012			
50.	Parameter	Parameter Test-Method			Requirement (Acceptable) Limit	Permissible limit in the Amence of Alternate Source		
20	Phendiii Composide	APHA, 5530 C Chloridorni Extraction Method	*BLQ(**1.0Q 0.0005 mgd)	mg/l.	1000.0	0.002		
21	Minorii Oil	Clause 6 of IS-3025 (Part 39)	*BLQ(**LOQ B.1 mg/li	пщл	1.0	No Relaxation		
22	Animir Delegath as	Annex K of 35 13428, 15 3025	*BLQ(**1,0Q 0.95 mg/l) .	Smart	0.2	1.0		
-23	MIDAS  Reinfunt free Chlories	15 3025 P. 56. Onthe solution Method	:*BDE(**DI: 0.15mg/l)	10002	-			
34	Sudjunt as Na	APHA: 3500 Na. R. Frame Phatametric Method	21.50	man n	(36)	15		
25	Руканын из К	APHA 3500 K R, Flores Photographic Method	6,80	mgil	ter:			
26	7m: 1678	IS 3025 (P-65):2014(RA:2019)	0.80	mg/l	5	13		
21	Copper on Cir	IS 3025 (P-68)(2014(RA-2019)	0.10	mg/t	0.05	15		
18	Managerial in Min	IS 3025 IP-651 2014(RA/2019)	*BLQ(**T.OQ:0.01.mg/i)	ingil	-0.1	0.3		
16	Camium as Cd	15 3025 (1965):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/t)	Ingf	-0.003	No Relation		
30		15 3025 (P-65) 2014 (RA 2019)	*BLQ(**LQQ 0.002 (0)/1)	,mp3 /	0.01	No Relatation		
31		IS 3025 (P-65):2014(RA-2019)	*HI 'D(**1'OO' 0' 0'01 to g T)	- Ingiti	.0.01	No Refacution		
32		15 3025 (P-65):2014(RA:2019)	*BLQC**LOQ 0.005 mg/lt	muñ	0.01	No Relatation		
33		15 3025 (Pa65) 2014(RA:2019)	*BLQ (**LI3Q 0.0003 mg/l)	med	0.001	No Relautio		
34	EXTRA STOR	IS 1622,1981, RA-2019	-02	SEPN/100ml	100 m	enerable in iny Vsample		
18	6000	18 1622.1981. RA-2019.	Also	MPN/100ml		ictectable in any I sample		

Note: - PRQ-Relow Lordred Quantification, \*\* EOQ- Line of Quantification



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3. Sample will be destroyed after one week from the date of same of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Numbers

DNESPE/GW/NIONE/64

Report No.:

DMSPL/GW/MCO/2311/004

Name & Address of the Project:

M's Nadidih Iron Ore Mines.

Format Noc:

7.8 1-01

Under ESL Steel Limited, (BICO)

Party Reference No.1. Reporting Date:

NIL. 25/11/2023

At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

Ground Water Level :

4.0 Mir.

Sample Description):

Ground Water Sample

Period of Analysis:

14/11/2023-25/11/2023

Sample Location: Sample Collected by: Village Burapani DMSPt. Representative

Receipt Date: Sampling Date: 14/11/2023 10/11/2023

Sampling and Analysis Pentucut:

18 3025 & APHA 23th Edition 2017

Sampling Quantity:

50 Ltr + 250ml

Erssecution:

Ice Buy

Sampling Type:

Grah

				3	Limits of 15:10500 -2012	
S. Sn.	Parameter.	Tien-Mitthial	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
		APITA 4500-H B Electronicuse Method	T-02	77	0.5 to 8.5	No Relaxatio
-	A) of the last	APPLA (2129 B. Visual Comparison Method	*BLQ (**LDQ:1.0 Huzin)	Hages	- 5	8.5
MT.	Therefore:	APIXA 2010 D. Nephfalometric Method	"BLQ (""LIN) THNTUS	NIU	1	5
J.	Odose	APILA, 2150 B. Threshold Oslene Method	Agrocable	==:	Agrosible	Agreeable
-27	Table	APBA , 2160 B. Threshold Test Method	DisAgreeable		Ajrocable	Agreeable
p.:	Total Hinbox m : CaCOs	APHA , 2340-C, EDYA Titruscine Mishod	.150;20	mpf	200	600
ħ.	Calcinit as Ca.	APHA, 3500-Ca B, EDTA Tirrumston Method	31.26	mail:	75	200
5.	Alfolinity as CaCO)	APRA 2530 B. Turmence Method	14830	Digitic	200	GBU
(4.)	Clifvirids locid	APRA TSHUCE B. Argentements Medical	86.50	7910/1	250	1000
10	Complete Sty	APHA A500 CN II	*81:Q(LOQ 0.02 mg/s).	mg/I	0.05	No Rehestion
11.	Magazinen av Mg	APHA , 2500 Mg H, Calculation Method	14.20	Days	30	100
12.	Fool: Disnifted Solids	APIIA , 2540 C, Gravimetric Method	350:20	mg/l	500	2000
33	Sulphate as SO <sub>4</sub>	APIA , 4500 E. Unbidirectric Method	54.20:	High	200	400
14	Flicklife as II	APRA, 1866/FD, SPADNS Method	1.30	Tigge	1.0	1.5
12.	Mittald as NO:	18-3025 (P-\$4) Chromotogic Method	23.10	ing!	.45	No Relayation
160	Item as Fig.	45-3025 (P-05);2014(RA:2019)	0.28	709/7	0.1	No relaxation
17.	Abmunium so.Al	15/3025 (P-65):2074(RA:2019)	*BLQ(*7EDG-0.005 tog/f)	ng/l	0.03	0.2
Tx.	Birrisi;	45 3025 (F-65) 2014 (FA:2019)	*BLQC**LOQ (0.01 mg/1)	mad	.0.5	24
15.	Chromium as Cr	TS 3025 (P-65):2014(RA:2019)	*BLQ(**1.0Q 6.002 mg/l)	200/1	0.05	No Relocation



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Sample will be destroyed after one week from the date of issue of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample	So DMSPL/GW/SIM	ND04 Test R	cport	Repo	rt No.: DMSPL	/GW/2311/004
					Limits of 15:10500 -2012	
N. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
30.	Phendic Limponia	APHA 5530 C Chloroform Extraction Method	*BLO(**LOO 0.0005 mg/l)	fige:	19.003	10.002
310	Minust Oil:	Clause 6 of 15:3025(Part 39)	*BLQ(**LOQ 0.1 mg0)	Paper.	2.0	Na Relocation
22/	Attentic Detergents on MILAS	Ames K of IS 13478, IS 3025 (P-68)	*BLQ(**LOQ 0.05 mg/l)	1001	0.2	1,01
22.	Roddin't free Chlorine	IS 3025 P-26, Ortho-tolandine Method	*BDL(**BL-0.15mg/)	mg/L	179	77
254	Nothin tac No.	APHA3500 Na. II. Flama Physiometric Method	18.20	Hugh	-	
25.	Personnel 18 K	APITA 3500 K B Flame Phytometric Method	\$.30 ·	trigit.		
26	Zinc m Zin	IS 5025 (P-65):2014(RA:2019)	1.28	17800	15	15
27.	Copper as Co.	15 3025 (P-n5):2019/HA:2019)	0.10	mgil	0.05	1.5
25.	Marganese in Mr.	ts 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 mg/0	Pager	0.1	0.3
29.	CadiministicCd	15. 3(25.)P-835/2014(3EA/2019)	*III (R**L0Q 0.002 mg/i)	mg?	11:000	No Relaxation
30.	Limited Po	18 3025 (P-65):2014(RA:2019)	*94.0(**1.00) 0.002 #g/t)	Date	0.01	No Reliniation
31:	Scientian in Se	TS 3025 (P-65):2014(RA:2019)	*BLQC**LOQ.03001 mg/l)	.095	0.01	No Relaxmon
12	Anomica: As	15 1025 (P-65) 2014(NA 2019)	*BLQX**LOQ 0.005 mg/l)	righ.	0.01	No Relicution
33/	Mercety at Hg	(S 3025 (P-65):2014/RA:2019)	*BLQ (**LOQ 0.0005 mg/l)	- Egm	0.003	No Retection
34.	Total Colliforni	15 1622 1981, RA-2019	4	MPN/R00ul	Shall not be: do 100.col	sample
III	E. Kieli	IS 1072,1981, RA-2019	Ален	MPN/100ml	Shall not be di 100 ml	notable in any sample

Note: - FBLQ-Below Limit of Quantification. \*\*LOQ-Limit of Quantification



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### Tax Invoice

## (Original for Recipient)

A 7, Spaze	lining Solutions Private Limited Privy, Sector 72, Gurgaon	Invoice No D 24/026	ig/2023-	Dated - 12/12/2023		
Haryana 3 GST No. 0	22101 6AAHCD0265C1Z5	Delivery Note -		Mode Terms of Payments – 15 Days		
			Supplier's Ref.			
		Purchase Orde	r No.	Dated		
Buyer to:		Dispatch Docum	ments No.	Delivery Note Date		
NARAYANI SONS India PVT LTD, (BICO) STATION ROAD, NEAR OMC OFFICE, BARBIL,		Dispatch Throu	igh	Destination		
		Terms of Delivery				
	Odisha, 758035 AADCM7262N3ZA	Bill for		Octo	ober-2023	
5. No.	Description of Goods	HSN Code	Quantity	Rate Per Unit (Rs)	Amount (Rs)	
1	Ambient Air Quality (5 parameter)	9983	54	900.00	48,600.00	
2	Ambient Air Quality (12 parameter)	9983	6	1,500.00	9,000.00	
3	Fugitive Dust Emission	9983	6	500.00	3,000.00	
4:	Stack Monitoring	9983	1	1,600.00	1,600.00	
5	Noise Level Monitoring	9983	8	150.00	1,200.00	
6	Surface Water Quality	9983	2	2,000.00	4,000.00	
7	Ground water	9983	4	500.00	2,000.00	
8	Soil sample	9983	1	2,000.00	2,000.00	
9	Ground water level	9983	4	400.00	1,600.00	
10	Free Silica	9983	6	1,000.00	6,000.00	
		Amount			79,000.00	
		GST @ 18 %			14,220.00	
		Grand Total			93,220.00	

Payment Details	
Name of Recipient	Digcare Mining Solutions Pvt. Ltd.
Bank	Axis Bank Ltd.
Account Number	923020006694847
Branch	Sector 49 Gurgaon 122018
IFSC Code	UTIB0001262
Pan Number	AAHCD026SC
GST Number	06AAHCD0265C125

For Digcare Mining Solutions Authorized Signatory

Declaration.

Our Liability is invoice Value Only Kindly Send the acknowledgement after making payment against tax invoice All dispute are subjected to Gurgaon, Jurisdiction

2

### Tax Invoice

## (Original For Recipient)

A 7, Spaze	lining Solutions Private Limited Privy, Sector 72, Gurgaon	Invoice No. – Dig/2023- 24/027 Delivery Note -		Mode Terms of Payments – 15 Days	
Haryana 1 GST No. 0	122101 6AAHCD0265C125				
		Supplier's Ref.		Other Reference	
		Purchase Orde	r No.	Dated	
Buyer to:		Dispatch Docu	ments No.	Delivery Note Date	
NARATAN	If SONS India PVT LTD, (Feegrade)	Dispatch Throu	gh	Destination	
	ROAD, NEAR OMC OFFICE, BARBIL	Terms of Delivery			
	Odisha, 758035 AADCM7262N1ZA	Bill fo		Decembe	er-2023
S. No.	Description of Goods	HSN Code	Quantity	Rate Per Unit (Rs)	Amount (Rs)
1.	Ambient Air Quality (5 parameter)	9983	54	900.00	48,600.00
2	Ambient Air Quality (12 parameter)	9983	6	1,500.00	9,000.00
. 3	Fugitive Dust Emission	9983	6	500.00	3,000.00
.4	Stack Monitoring	9983	1	1,600.00	1,600.00
- 5	Noise Level Monitoring	9983	8	150.00	1,200.00
6	Surface Water	9983	2	2,000.00	4,000.00
7	Ground water	9983	4	500.00	2,000.00
8	Soil sample	9983	1	2,000.00	2,000.00
9	Ground water level	9983	4	400.00	1,600.00
10	Free Silica	9983	6	1,000.00	6,000.00
		Total Amount			79,000.00
		GST @ 18 %			14,220.00
		Grand Total			93,220.00

Payment Details	
Name of Recipient	Digcare Mining Solutions Pvt. Ltd
Bank	Axis Bank Ltd.
Account Number	923020006694847
Branch	Sector 49 Gurgaon 122018
IFSC Code	UTI80001262
Pan Number	AAHCD0265C
GST Number	06AAHCD0265C1Z5

For Digcare Mining Solutions Dec Authorized Sanatory

Declaration-

Our Liability is Invoice Value Only Kindly Send the attacked gement after making payment against tax invoice All dispute are subjected to Gurgann, Jurisdiction



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Name & Address of Party:

DMSPL/NIOM/S/01

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

DMSPL/S/BICO/2311/061

Format No.

5.10 F-01

Party Reference No.:

NIL

Simple Description Sumpling Localisms

Sample Colleged by

Sampling & Amifysis Promeof:

SOIL

Inside Mine Area

DMSPL Lab Representative

15 2720 & USDA

Receipt Date Sampling Date: 30/11/2023 24/11/2023

Type of Sampling:

Report No.

20/11/2023 Composite 2.0 Kg

Sampling Quantity: Depth of Sampling:

Reporting Date:

30 cm

Packing Status:

Temp Scaled

S. No.	Parameter	Protocal	Result	Unit
A.	pH (#25 °C)	IS : 2729 (P-26,1987)	8,10	-
2	Conductivity	15:14767-2000 Reuffirmed 2006	0.32	ntS/cm
1	Sall Texture	USDA Method, 1968	Silty Loani	122
4.	Cale	1/8DA/Method, 1968	Yellowish	
3.	Water holding capacity	USEA Method, 1968	21.40	74
n.	Bulk density	USDA Method, 1968	1,36	gm/cc
10	Chloride is Cl	USDA Method, 1968:	25:50	.eug/100gm
К.	Cidenos as Ca:	USDA Method, 1968	30.50	ing/100gm
ù.	Sodiim in Na	AISDA Mashed, 1968	29:10	ing/100pit
10.	Poi-sian as K	USDAMmid, 1960	55.40	kg/frec.
П	Cirganic Manor	18:2720 (P-22, 1972)	0.42	74.
12:	Magnesium as Mg.	USDA Method, 1968	1130	10g/100gg
EI.	Available Nihogen as N	IS:14684, 1999	180:40	.kg:/bec:
B	Available Phosphoras	USDA_APHA-4500PC	33,40	kg bec.
15	Zincan Zn	APHA-0030D, APHA-01118	4.30	mg/100gst
16.	Manganesic as Mil	APHA-JUJUD, APHA-J LITB	2.50	энц/Гопун
17/	: Clnumum in Cr.	APHA-3030D, APHA-3111B	1,40	ици Китри
180	A acad go (filt)	APHA-1030D, APHA-3111B	0.60	mg/tillign
19.:	Calmini us Cd	APHA-3030D, APHA-3111B	1:70	.mg/100gm
20.	Copperasi Cia	APIIA-3630D, APHA-3111B	5.10	mg/L00pp



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Name & address of the Project:

DMSPL/SIOM/ST/01

Mis Nadidih Irun Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidifi, PO - Koira

Distt. Sundargarh, Odisha India.

Report No.:

DMSPL/ST/BICO/2311/001

Format No.:

7.8 F-03

Party Reference No.: NIL

Reporting Date:

25/11/2023

Period of Analysis:

DV11/2023 to 25/11/2023

Receipt Date:

15/11/2023

Sample Description:

Stack Emission Monitoring

General Information

Sampling Location Mine Site

Sample Collected by DMSPL Lab Representative

Date of Sampling 12/11/2023 Sampling Duration (Minutes) 45.0 Min Stack arrached to DG 5et Make of stack MS Dinmeter of stack (m) 0.30 Meter

Instruments calibration status Calibrated Meteorological Condition Clear Sky Ambient Temperature - Ta (°C) 26,9 Temperature of stack Gases - Ts (°C) 216.0Velocity of stack Gases (m/sec.) 9.10 Flow rate of PM (LPM) 22.0 Flow rate of Gas (LPM) 2.0

Sampling condition Inokinetic Protocol used 15 111255

### RESULTS

5. No.	Test Parameters	Test Alethod	Results	Units	Limits as Per CPCB
	Particulate Matter (as PM)	35 11255 (P-1), Convimente Method	40.20	mg/Nm <sup>3</sup>	75
3	Oxide of Willingers (as NOxy	18 (1263) [8-2]	154.2	PERM	710
i.,	NMHC	DMSPLENV/STP/ST/FGA/01, Issue No. 01.00/11/21	16:2	mg/Nm²	100
4.	Sulphur Dioxide (25 SO2)	15 11255 (P-2), Titrimetric Method	24.4	me/Nm²	
ŝ	Carbon Monoslide (as CO)	DMSPLÆNVSTPSTÆGAUL boge No 01.01/11/21	28:4	ms Nm	150

Note: \* Y [7-] assistment Standard Testing Percedure

AAA Judge Reportage



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- 3. Sample will be destroyed after one week from the date of issue of test certificate.

4. The results are related to the test items only.

\$ 9196A19A01



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/NIOM/SW/02

Name of the Project:

M/s Nudidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarb, Odisha India.

Sample Description:

Surface Water Sample

Sampling Location: Sample Collected by: River Sample (Near Mines Downstream )

Preservation:

Ice Box

Sampling and Analysis

APHA & IS, 2318 Edition 2017

DMSPL Lab Representative

Protocol:

Report No.:

DMSPL/SW/BICIO/2311/002

Format No.:

7.8 F-01

Party Reference No.: NH.

Repurting Date:

25/11/2023

Period of Analysis:

18/11/2023-25/11/2023

Receipt Date:

18/11/2023

Sampling Date:

15/11/2023

Sampling Quantity: 2.0 Ltr + 250mi.

Sampling Type:

Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APILA .4500-II. Il Electrometric Method	7,50	-
2.	Colour	APBA 2120 B, Visual Comparison Method	250	Harm
3,	Turbidity	APHA, 2130 B. Sephlelometric Method	F-14	NTU
4.	Odyse	APHA, 2150 B., Threshold Test Method	Agrecable	++
£	Total Hundrens as CaCO <sub>3</sub> .	APHA 2340 C. EDTA Titrimetric Method	98.1	mig/1
6.	Caferum as Ca	APHA, 3500 Ca-B, EDTA Titzimetric Method	28.2	mg/S
7.	Alkalinity as CaCO <sub>2</sub>	APHA , 2320 B. Titrimetric Method	72.2	Pager
2.	Chloride as Ci	APHA, 4500-CT B, Argentometric Method	40.20	mpl
9.	Total Residual Chlorine	15 3025 Pr26, Ontho-foluiding Alarhad	*BDL(**DL 0.15ng;1)	Figure
10	Cymide ar CN	APIAA 4500 CN D. Barbinase Acid Method	*BDL(**D(. 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA, 3500 Mg/B; Calculation Method	5.40	figm
12:	Total Dissolved Solids	APITA 2540 C. Gravimetric Method.	250.0	mp?
19.	Total Syspended solids	APHA 2540 D. Gun imemic Method	19.0	mg/L
14.	Dissolved Oxygen	APILA, 4500 C/H Todometric Method.	6.1	H@T
15.	Sulphide	15.3025 (P-29):2022	32.20	Tigor.
16.	Fluoride as F	APHA 4500-F D. SPADNS Method	0.40	, Frigit
17.	BOD (3 Days # 27°C)	APHA, 5210 C / IS 3025,P-44	10.20	Nem Nem
18	COD STORY	APHA, 5220 B. Open Rethix Method	36:40	018)

(Checked

(Approved B

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Sample will be destroyed after one week from the date of issue of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

SHIRD	Suc.DMSPL/NIOMSW/02		Report No.: DMSPI	/SW/BICO/2311/
S. No.	Parameter	Test-Method	Result	Unit
T9.:	Conductivity (at 25 °C)	APHA, 2510 B, Conductivity Meter Method	0.410	mS/cm
20	Netrate an NOs	18 3025 (P-34) Chromotropic Method	4.42	mg/i
21	Sedien in Na	APHA.3500 Na B, Flame Photometric Nethod	24.20	mg/l
22.	Principles at K.	APHA 3500 K B, Plame Protometric Method	5.60	High
271	from see Fe	15 3025 (P-65) 2014(NA:2019)	*HDL(**DC, 0.002 mg/l)	mg/l
24.	Altonomum as Al.	15/3025 (1965):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l
25.	# can	IS 3025 (P-65) 2014(RA:2019)	0.44	mg/I
26	Hexavalent Obromium as Co	FS 3025 (P-65) 2014(RA:2019)	*BD((**))[.0.002 mg/l)	engr/I
27:	Phonolic Compounds	APHA: 5530 C Chloroform Extraction Method	*BDL(**1)1; (),()()()4mg/7)	mg/i
18	#Manacat On	Clause 6 of 15:3025(Part 39)	*903 (**D) 0.1 mg/l)	mg/l
20	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*TIDL(**DL 0.05 mg/h)	mg/l
311:	Zincas Zn	ES 3025 (P-65):2014(RA:2019)	*HDL(**D), 0.05 mg/l)	mg/l
II.	Copper as Cu	(5.3025 (P-65) 2014 (RA:2019)	*HDC/**DC-(i.1 mg/l)	mg/l
32.	Manganese as Ma	IS 1025 (P-65):2014(RA:2019)	*BDL(**DL, 0.01 mg/l)	mg/l
13.	Cadmium as Cd	4S 3025 (P-65)(2014(RA:2019)	*BDL(**DL 0.002 ===1)	mg/l
54.	Temperature	15, R025 (P-9) (392)	24.8	mg/I
15.	Oil & Genuc	18 3025 (P.39) 2021	*BDL(**D(, 2.0 mg/l)	nug/L
166	Five Ammonia	ES 3025 (P-34):1988	*BDL/**DL 0.20 mg/ly	mg/l
7.	First kjeldhal Nettegen	IS 3025 (P-34):1988	*BDL(**DL 0.20 mg/t)	mg/l
16.	Nidel	Standard Operating Procedure	*RDL(**DL.0.02 mg/T	mg/l
9,	Vinualities	Standard Operating Procedure	*BD£1**D£ (682-mg/i)	102/1
0.	Ammonical Nitrogen:	IS 3025 (P-34): 1988	*HDL(**DL 0.30 mg/l)	mg/l
į.	Total Coliform	IS-1622.1981; RA-2019	300	3dPN/100ml
2	From California	1S 1627 1981 RA-2019	190	AIPN/100mi

GO)L-Helius Desection Limit. \*\*DL: Desection Limit.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Number:

DMSPL/NIOM/SW/01

Test-Report

Report No.: Format No.: DMSPL/SW/BICO/2311/001

Name of the Project:

M/s Nadidih Iron Ore Mines,

Party Reference No.: NIL

7.8 F-01

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Disti, Sundargarh, Odisha India.

Reporting Date:

25/11/2023

Sample Description:

Surface Water Sample

Period of Analysis:

18/11/2023 - 25/11/2023

Sampling Locations

River Sample (Near Mines Upstream)

Receipt Date:

18/11/2023

Sample Callected by: Preservation:

DAISPL Lab Representative

15/11/2023 Sampling Date:

Sampling Quantity:

2.0 Ltr + 25hml.

Sampling and Analysis

Tee Bay. APHA & IS, 23th Edition 2017

Sampling Type:

Composite

Pentoent:

5. No.	Parameter	Test-Method	Result	Unit
1	pH (as 25 90)	APHA .4509-H" B Electrometric Method	7,40	
2	Colour	APHA 2120 B. Visual Comparison Method	20.0	Hazen
3	Turbidity	APHA, 2130 B. Nephiclometric Method	- 1	NIL
4	Odini	APHA, 2150 B., Threshold Test Method	AgroutHe	110
3	Total Harrisgs to Cal Os.	APITA 2340 C, EDEA Thrimetric Method	90.2	mg/l
6	Circum in Ca	APHA, 3500 Cu B, EDTA Titrimetric Method	24.2	mg/T
7	Alkalisity to CaCOs	APFA , 2320 B, Titrimetric Method:	78,5	mg/l
8	Chlorida as CI	APHA, 4500-CT B, Argentometric Method	46.2	'my/1
	Total Residual Colorine	1S 3025 P-26. Ortho-tolardine Method	*BDL(**DL-0.15mg/l)	mjg/T
10	Cyanide as CN	APHA: 4500 CN: D. Barbineric Acid Method	*BDLC**DL 0.02 mg/3	mg/I
TL:	Misgnesium as Mg	APEG 3300 Mg B, Catcalution Method	3,40	mg/7
17	Total Disselved Solids	APHA: 2540 C. Graymetric Method	260	mgr
1)	Total Suspended solids	APHA 2540 D. Gray imetric Methoid	29.0	, mg/d
14	Diniolved Doygen	APEIA:4500 G II. Indonserva Method	63)	17(2)
45	Sulphide	ts 3025 (P-20) 2022	4.2	251g/I
16	Fluoride as F	APIGA _4500-F D; SPADNS Method	0.22	mgñ
12	BOD (3 Days at 27°C)	APHA, 5210 E   15:3025,P-44	14:10	mg/l
18	CDB.	APHA, 5220 B, Open Reflux Method	39;26	High





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Samiple	No.: DMSPL/NIOM/SW/01		Report No.: DMSPL	/SW/BICO/2311/	
S. No.:	Parameter	Test-Method	Result	Unit	
19.	Conductivity (at 25 °C)	APHA, 2510 II, Crinductivity Meter Method	0.430	mS/cm	
200	Nitratic ai(NO)	15 3025 (P-34) Altromotropic Mattod	4;10	mg/1	
21	Sodiant is Ni.	APHA,3500 Na B. Flame Photometric Method	19.50	mg/l	
22.	Pinnskinti ni K	APHA 3500 K B, Flame Photometric Method	6.20	mg/t	
23	Iron is Fe	IS 3025 (P-65):2014(RA:2019)	0.40	mg/l	
24-	Aluminim, as Al	15 3025 (P-65):2014(RA:2014)	*#DL(**DL 0.002 mg/l)	mg/l	
25	Hone	(\$ 3025 (9-65):2014(RA:2019)	*HDL(**DL 0.002 mg/l)	mg/l	
26.	Hesavalent Chromium or Cr	IS 3025 (P-65):2014(RA 2019)	*BDL(**DL 0,002 mg/l)	mg/t	
27.	Ptomolic Compounds	APHA, 5530 C. Chlorofornt Extraction Method	*BOL(**DL.0.0004mg/I)	mg/l	
JII.	#5timeral (iii)	Cinuse 6 of 15:3925 [Part 39]	*BDL(**D), 0.1 mg/0.	mg/i	
29	#Anning Detayports at MRAS	APHA, 5540 C MBAS Sethod	*HOL(**DL025 mg))	mg/l	
30.	Zinc us Zir	1S-3025 (P-65):2014(RA:2019)	*BDL(**DL:0.05 mg/b	mg/l	
31.	Copper: ac:Cu:	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL-0.1 mg/l).	mg/i	
32	Manganese as Mn	IS 3025 (P-65):2014(RA;2019)	(l'gm ((t,0 )k(l**), k(l#*	mg/i	
.53	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL ().002 mg/l)	mg/l	
34	Loupenate	IS J026 (P-0):2023	243	ing/l	
35.	CHE& Citates	18:3023 (P:39):2021	*HOL(**OL 20 ng/1)	T\get	
36.	Free Ammunia	IS 3025 (P-34) 1988	*8DL(**DL 0.29 mgi)	mg/X	
37	Total kjeldhal Nitragesy	18.3025 (9-34); 1968	*BDL(**DL 0.20 mg/l)	mg/l	
300	Nickel	Standard Operating Procedure	*BDL(**DL 0.02 mg/l)	.mg/l	
39.	Natodiani	Standard Operating Procedure	*HDL7*DL0.02 mg/0.	Hig/I	
40.	Ammunical Natiogen	85,3025 (P-34);1988	*HDL(**D). (L29/mj/1)	100L/1.	
43	Twist Coliforn.	18 1622,1981, RA-2019	280	MPS/100ml	
162.	Feed Cultions	IS 1622,1981, RA-2019	160	MPN/100ml	

SEDI-Below Detection Limit. \*\*DL- Detection Limit.



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No: Name & Address of the Project:

Sample Collected By:

Sample Description:

Location:

Latitude:

DMSPL/AA/N1O/01-09 Mrs Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

DMSPL Representative

Near Mine Office (A1)

21" 58"09" N

Report Not Reporting Date: Ref. No:

DMSPL/AA/BIC/2312/001-009 06/01/2024

Monitoring Period:

I" Dec. 2023 to 31" Dec. 2023 RDS & FPS with all accessories

Equipment Used: Protocol Used:

18-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Sample Condition Longitude:

Good/Clear 85" 15"33" E

## RESULTS

Date	PM <sub>10</sub> (pg/m <sup>2</sup> )	PM1.5 (µg/m²)	SO <sub>1</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m3)
01.12.2023	63.2	45.3	16.2	27.4	0.61
04.12.2023	654	41.9	15.6	33.5	0.62
05.12.2023	723	41.8	164	24.6	0.63
11.12.2023	61.8	44.5	16.5	31.2	0.62
12.12.2023	70.9	43.1	17.2	27.6	0.70
18.12.2023	73.9	29.9	182	-29:2	0.56
	74.2	37.8	17.11	24.9	0.54
19.12.2023 25.12.2023	64.9	28.2	18.3	26.3	0.56
26.12.2023	73.2	37.3	19.3	24.1	0.54

	Parameter	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.3</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO; (μg/m²)	(mg/m <sup>3</sup> )
amitas	24	100	60	80	80	4
per NAAQS*	Method of Analysis	1S 5182 (Part - 23)	1S 5182 (Part - 24)	(Part - 2)	IS 5182 (Part - 6)	18 5182 (Part – 10)

National Ambient Air Quality Standards.

"" End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIO/10-18

Mrs. Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

Report No: Reporting Date:

Ref. No:

DMSPL/AA/BIC/2312/010-018

06/01/2024

NIL

Monitoring Period: Equipment Used: I" Dec. 2023 to 31" Dec. 2023 RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

Protocul Used:

DMSPL Representative Ambient Air Quality Monitoring

Near Mines Gate (A2)

21" 58"23" %

Parameter Réquired: Customer Name:

Sample Condition Longitude: As per EC Letter

Nadidih fron Ore Mines

Good/Clear 85° 15° 44" E

#### RESULTS

Date	PM <sub>(n</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	(mg/m3)
01/12/2023	84.9	43.5	18.0	3.0.5	0.74
04.12.2023	82.7	42.2	19.7	29.4	0.92
05.12.2023	B5.2	39.3	17.9	26:7	0.86
11.12.2023	77.9	44.4	18.3	34.5	0.82
12.12.2023	83.4	39.3	17.2	26.6	0.96
18.12.2023	82.5	45.4	16.6	125.5	0.95
19.12.2023	69.4	45.9	15.6	33.5	0.66
25.12.2023	72.3	44.8	17.4	26.6	0.64
26.12.2023	64.8	.45.5	10.5	32.2	0.66

	Parameter	PMid (ug/m <sup>2</sup> )	PM23 (µg/m²)	SO <sub>7</sub> (μg/m <sup>3</sup> )	NO: (µg/m²)	(mg/m <sup>2</sup> )
Limit as	100	60	80	80	4	
NAAQS*	Method of Analysis	IS 5182 (Part - 23)	15 5182 (Part - 24)	1S 5182 (Part - 2)	IS 5152 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

"End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Name & Address of the

Sample Collected By:

Sample Description:

Project.

Location:

Latitude:

DMSPL/AA/NIO/19-27

Mrs Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nudidih, PO - Koira

Distt. Sundargarb, Odisha India.

Report Not Reporting Date: DMSPL/AA/BIC/2312/019-027

06/01/2024

NIL

Ref. No:

Monitoring Period:

1" Dec. 2023 to 31" Dec. 2023

Equipment bised:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

Protocol Used:

As per EC Letter

DMSPL Representative Ambient Air Quality Monitoring

Village - Kendubidi (A3)

21" 59'45" N

Parameter Required: Customer Name:

Nadidib Iron Ore Mines Good/Cleur

Sample Condition: Longitude:

85° 16'14" E

#### RESULTS:

Date	PMin (pig/m²)	PM±e (µg/m³)	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO: (µg/m³)	(mg/m3)
02.12.2023	63.5	46.6	15.7	27.4	0.65
06.12.2023	65.2	23.4	8.1	18.4	0.53
07.12.2023	583	30.3	9.5	17.8	:0.54
13.12.2023	64.4	29.9	7.1	16.9	0.56
14.12.2023	57.5	31.4	9.5	19.1	0.54
26.12.2623	65.5	46.6	15.7	26.4	0.66
21.12.2023	62.2	244	7.1	14.4	0.53
27,12,3023	58.3	30.3	7.3	15.8	0.58
28.12.2023	66.2	36.4	8.5	17.7	0.83

	Parameter	PM+0 (µg/m <sup>3</sup> )	PM:s (pg/m²i	SO: (jig/m²)	NO <sub>2</sub> (µg/m <sup>5</sup> )	CO (mg/m³)
Limit as	-	100	60	80	80	4
NAAQS*	Method of Analysis	(S 5182 (Part - 23)	18-5182 (Part - 24)	IS 5182 (Part - 2)	(Part - 6)	15 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No: Name & Address of the Project:

Sample Collected By:

Sample Description:

Lucation:

Lutitude:

DMSPL/AA/N10/28-36 M/s. Nadidili Iron Ore Mines. Under ESL Steel Limited, (BICO)

Distt. Sundargarh, Odisha India.

At Nadidih, PO - Koira

DMSPL Representative Ambient Air Quality Monitoring Village Budipada (A4) 21 58 04" N

Report No:

Reporting Date: Ref. No:

Monitoring Period: Equipment Used:

Protucal Used: Parameter Required: Customer Name:

Sample Condition Longitude:

DAISPL/AA/BIC/2312/028-036

06/01/2024

NIL

1" Dec. 2023 to 31" Dec. 2023 RDS & FPS with all accessories 1S-5182 & CPCB Guidelines

As per EC Letter Nadidih Iron Ore Mines

Good/Cleur 85" 18"33" E.

#### RESULTS

Date	PM	PM25 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO: (µg/m³)	(mg/m3)
tome	Origin,)	The second secon	16.4	25.6	0,60
02.12.2023	72.3	40.8			0.62
06.12.2023	64.8	44.5	17.5	312	
	73.9	43.1	16.2	27:6	0.70
07.12.2823			19.7	26.4	0.66
13.12.2023	65.5	40.6			0,53
14.12.2023	66.2	284	8.1	17.4	
		33.3	7.5	1.6.6	0.54
20.12.2023	573			17.9	0.58
21.12.2033	64.4	29.9	7.3.		0.76
	57.5	32.4	8.3	15.1	0.56
27.12.2023	17.6		13.5	31.2	0.95
28.12.2623	60,6	42.5	12.1	1	

Parameter	PM <sub>18</sub>	PM <sub>13</sub> (ug/m <sup>3</sup> )	SO <sub>2</sub> (μ <u>α</u> /m <sup>3</sup> )	NO <sub>2</sub> ()(g/m <sup>2</sup> )	(mg/m1)
-	100	60. /	80	80	4.
Method of	15 5182	15 5182	IS 5182 (Part - 2)	15 5182 (Part - 6)	15 5182 (Part - 10)
	75	Parameter [µg/m³]  100  Method of 18 5182	Parameter (µg/m³) (µg/m³)  100 60 /  Method of 15.5182 15.5182	Parameter (µg/m³) (µg/m³) (µg/m³)  - 100 60 80  Method of 18.5182 18.5182 (Part - 2)	Parameter (µg/m³) (µg/m³) (µg/m³) (µg/m³) (µg/m³)  - 100 60 80 80  Method of 18 5182 18 5182 18 5182  Method of 18 5182 (Part - 2) (Part - 6)

National Ambient Air Quality Standards.

\*\* End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 15O-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Sample Collected By:

Sample Description:

Lucation:

Latitude:

Name & Address of the Projecti

DMSPL/AA/N10/37-45

M's Nadidili Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidilli, PO - Koira

DMSPL Representative

Village Jhirapani (A5)

21"-59"58" N

Distt. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report Not

DMSPL/AA/BIC/2312/037-045

06/01/2024

Reporting Date: NIL Ref. No:

Monitoring Period:

1" Dec. 2023 to 31" Dec. 2023

RDS & FPS with all accessories.

Equipment Used: Protocol Used:

15-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter Nadidih Iron Ore Mines

Customer Name: Sample Condition

Good/Clear h5" 13'10" E

Langitude:

### RESULTS

Date	(pg/m <sup>3</sup> )	PM±s (jag/m³)	SO; (µg/m²)	NO: (µg/m³)	(mg/m3)
03.12.2023	58.3	42.8	18.7	26.8	0.60
08.12.2023	62.2	45.3	17.2	27.4	0.61
09.12.2023	65.4	45.9	18.6	33.5	0.62
15.12.2923	72.3	44.8	17.4	25.6	0.64
16.12.2923	60.8	44.5	16.5	35.2	0.66
22 12 2023	70.9	46.1	17.2	27.6	0.70
23.12.5023	105.5	47.6	15.7	26.4	0.64
29.12.2025	65.9	48.4	173	26.6	0.61
30.12:2023	63.3	23.4	8.5	16.1	0.52

	Parameter	PM 10 (ug/m²)	PM±2. (µg/m²)	SO <sub>2</sub> (µg/m <sup>3</sup> )	NOs (sig/m²)	(mg/m <sup>2</sup> )
Limit as	100	60	80:	80	74	
NAAQS*	Method of Analysis	15 5182 (Part - 23)	15 5182 (Part - 24)	15 5182 (Part - 2)	1S 5182 (Part - 6)	15 5182 (Part - 10)

National Ambient Air Quality Standards.

Soluti

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project

DNESPL/AA/NIO/46-54

Mrs Nadidib Iron Ore Mines, Under ESL Steel Limited. (BICO)

At Nadidilt, PO - Koira

Dist. Sundargarh, Odisha India.

Report No:

Reporting Date:

Ref. No:

Monitoring Period:

Equipment Used: Protocol Used:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

DMSPL/AA/BIC/2312/046-054

1" Dec. 2023 to 31" Dec. 2023

Parameter Required:

Customer Name:

Sample Condition Longitude:

As per EC Letter

Nadidih Iron Ore Mines

SITTION

Good/Clear 85° 15'20" E

06/01/2024

MIL

Sample Collected By: Sample Description:

Lagation; Latitude: DMSPL Representative Ambient Air Quality Monitoring

Village Kashira (A6)

21" 55" 10" N

#### RESULTS

Date	PM <sub>10</sub> (µg/m <sup>2</sup> )	PM <sub>2.5</sub> (μg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (μg/m <sup>3</sup> )	CO (mg/m3
03:12:2023	64.4	25.9	7.1	17.9	0.58
08.12.2023	58.5	31.4	9/5	16.1	0.54
09.12.2023	57.3	25.4	8.0	18.8	0.55
15.12.2023	60.3	23.4	7.5	17.1	0.56
16.12.2023	55.4	24.4	9.5	16.3	0.53
22.12.2023	57.5	32.4	9.5	17:1	0.54
23.12.2023	58.3	26/4	8.0	16.4	0.55
29.12.2023	60.3	23.4	8.5	17.1	0.54
30.12.2023	61.8	44.5	17.5	31.2	0.62
20110000					

	Parameter	PM <sub>30</sub> (µg/m <sup>3</sup> )	PM2.5 (ag/m³)	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>2</sup> )	(mg/m²)
Limit as	-	100	60	.80	80	4
NAAQS*	Method of Analysis	18-5182 (Part - 23)	1S 5182 (Part - 24)	IS 5182 (Part - 2)	4S 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

"End of Test Report"



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  - 4. The results are related to the test items only:



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Same & Address of the

Projects

DMSPL/AA/NIOM/01

M/s Nadidib Iron Ore Mines, Under ESt. Steel Limited, (BICO)

At Nadidib, PO - Kotra

DMSPL Representative

Distt. Sundargarh, Odisha India.

Report No:

Ref. No:

DMSPL/AAM/BICO/2312/001 06/01/2024

Reporting Date: NII.

Monitoring Period:

December 2023

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

18-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter

Customer Name: Sample Condition Nadidih Iron Ore Mines

Longitude:

Good/Clear 85° 15'33" E

Sample Cullected By: Sample Description:

Location: Latitude: Ambient Air Quality Monitoring Near Mine Office (A1)

21° 58'09" N

### RESULTS

Date of Sample	Ozone (µg/m²)	Ammonia (µg/m²)	Lead (ice/m <sup>3</sup> )	Nictori (ug/m²)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrim (ng/m3)
	THE RESERVE OF THE PARTY OF THE	1949-11-7			-0.50	<5.0	c1.0
02.12.2023	28.2	32.4	<0.05	<0.05	<0.50	-5/0	17794195

	Parameter	Ozone (ng/m <sup>3</sup> )	Ammonia (ug/m²)	Lend (ng/m²)	Nickel (ng/m <sup>3</sup> )	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/m3)
Limit as	-(	180	400	1	20	6	5	1
per NAAQS*	Method of Analysis	15 5182 (Part – 9)	18 5182 (Part - 25)	IS 5182 (Part - 22)	15 5182 (Part - 26)	As per CPCB By AAS	18-5182 (Part - 11)	fs 5182 (Part - 12)

National Ambient Air Quality Standards.

End of Test/Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Lucation;

Latitothe

DMSPL/AA/N1OM/02

DMSPL Representative

Near Mines Gate (AZ)

23" 58"23" N

Mrs. Nadidih Iron Ore Mines,

Under ESL Steel Limited, (IIICO) At Nadidih, PO - Kuira

Distt. Sundargarls, Odisha India.

Ambient Air Quality Monitoring

Report No:

Reporting Date:

Ref. No.

Monitoring Period:

Equipment Used:

Protucol Used:

Customer Name: Sample Condition

Parameter Required:

Longitude:

DMSPL/AAM/BICO/2312/002

06/01/2024

NIL.

December 2023

RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

As per EC Letter

Nadidih Iron Ore Mines.

Good/Clear 85" 15'44" E

RESULTS

Date of Sample	Ozone	Ammonia	Lend	Nickel	Arsenic	Renzene	Benzo(a)pyrina
	(µg/m²)	(µg/m²)	(pg/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
06.12:2023	24.6	31.7	<0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	Ozone (µg/m³)	Ammonia (jug/m²)	Lend (µg/m²)	Nickel (ng/m²)	Arrenic (ng/m3)	Benzene (μg/m³)	Benzo(a)pyrine (ng/m3)
Limit as	-	180	400	t	20	6	5	1
per NAAQS*	Method of Analysis	18 5182 (Part -9)	1S 5182 (Part - 25)	15 5182 (Part – 22)	18 5182 (Part - 26)	As per CPCB By AAS	18 5182 (Part - 11)	18 5182 (Part - 12)

National Ambient Air Quality Standards.

"End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Same & Address of the

Sample Collected By:

Sample Description:

Projecti

Location

Latitude:

DMSPL/AA/NIOM/3

Mrs Nashdib Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

Village - Kendahidi (A3)

21" 59"45" N

Distt. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No: Reporting Date: DMSPL/AAM/BICO/2312/003

06/01/2024

Ref. Not. Monitoring Period:

December 2023

Equipment Used:

RDS & FPS with all accessories

18-5182 & CPCB Guidelines

Protocol Used:

Parameter Required: Customer Name:

As per EC Letter

Sample Candition

Nashitih Iron Ore Mines Good/Clear

Longitude:

85" 16"14" E

RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzu(n)pyrin
	(jig/m <sup>2</sup> )	(11g/m²)	(ng/m <sup>3</sup> )	(ng/m²)	(ng/m3)	(jug/m²)	(ng/m3)
12.12.2023	21.5	35.6	<0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	Ozone (µg/m²)	Ammonia (µg/m²)	Lead (µg/m³)	Nickel (ng/m²)	Arsenic (ug/m3)	Henzene (µg/m³)	Benzo(a)pyrio (ng/m3)
Limit as		180	400	1:	20	6	5	1
NAAQS*	Method of Analysis	IS 5182 (Part – 9)	1S 5182 (Part - 25)	1S 5182 (Part - 22)	15 5182 (Part – 26)	As per CPCB By AAS	1S 5182 (Part – 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Lacition

Latitude:

DMSPL/AA/NIOM/4

Mr. Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

Ar Nadidih, PO - Koira

DMSPL Representative

Village Badipada (A4)

21" 58'04" N

Diett. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No.

Reporting Date:

Ref. No:

Monitoring Period:

Equipment Used:

Pentocol Used:

Parameter Required: Customer Name: Sample Condition

Longitude:

DMSPL/AAM/BICO/2312/004

06/01/2024

NIL

December 2023

RDS & FPS with all accessories 1S-5182 & CPCB Guidelines

As per EC Letter

Nadidih Iron Ore Mines

Good/Clear 85° 18'33" E

RESULTS

Date of Sample	Ozone (pg/m³)	Ammonia (µg/m²).	Lend (ng/m²)	Nickel (agarth)	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/mJ)
	19400-00	APPENDICATION OF THE PERSON OF		The second second	1144-09-667	<5.0	c1.0
16.12.2023	2330	38.2	<0.05	40.05	<0.50	-510	5300

	Parameter	Ozone (ng/m³)	Ammonia (µg/III²)	Lenil (pg/m²)	Nickel (ng/m²)	Amenic (ng/m3)	Benzene (pg/m²)	Benzo(a)pyrine (ng/m3)
Limitas		180	400	ï	20	6	5	L
NAAQS*	Method of Analysis	IS 5182 (Part - 9)	15 5182 (Part – 25)	15-5182 (Part - 22)	15 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Not

Name & Address of the

Sample Collected By:

Sample Description:

Project).

Location:

1 mittade:

DMSPL/AA/NIOM/5

Ma Nadidib from Ore Mines,

Under ESL Steel Limited, (BfCO)

At Nadidih, PO - Koira

DMSP1. Representative

Village Ihirapani (A5)

21" 59"58" N

Distt. Sundargarly, Odisha India.

Ambient Air Quality Monitoring

Report No:

Reporting Date:

Ref. No.

Monitoring Period:

Equipment Used:

Protocol Used:

Customer Name: Sample Condition

Langitude:

DMSPL/AAM/BICO/2312/005

06/01/2024

NIL

December 2623

RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

tractitit!

Parameter Required:

As per EC Letter Nadidih from Ore Mines

Good/Clear

85" 13"10" E

Date of Sample	Ozone (mater)	Ammonia (µg/m²)	Lend (pg/m²)	Nickel (ng/m <sup>3</sup> )	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/m3)
SCHOOL STATE OF STATE	(jig/m²)	the mi			<0.50	<5.0	<1.0
20.12.2023	23.6	36.5	<0.05	×0.05	<0.30	- 3696	5.730

	Parameter	Orone (ug/m²)	Ammonia (ag/m²)	Lead (µg/m²)	Nickel (ng/m²)	Avsenic (ng/m3)	Benzene (µg/m²)	(ng/m3)
Limit as		180	400	17	20	6	5	#
per NAAQS*	Method of Analysis	15 5182 (Part - 9)	15 5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part - 26)	As per CPCB By AAS	18.5182 (Part-11)	1S 5182 (Part - 12)

National Ambient Air Quality Standards.

"\*End of Test Report"\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Not

Name & Address of the

Sample Callected By:

Sample Description:

Project:

Linearion:

Latitude:

DMSPL/AA/NIOM/6

Mis. Nadidils from Ore Mines.

Under ESL Steel Limited. (HICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

DMSPL Representative Ambient Air Quality Monitoring

Village Kashira (A6)

21" 55'10" N

Report No.

Reporting Date:

DMSPL/AAM/BICO/2312/006 06/01/2024

NIL

Ref. No: Monitoring Period:

December 2023

Equipment Used: Protocol Used:

RDS & FPS with all accessories 15-5182 & CPCB Guidelines

Parameter Required:

Customer Name: Sample Condition As per EC Letter Nadidih Iron Ore Mines.

Good/Clear

Longitude:

85° 15'20" E

#### RESULTS

Date of Sample	Ozone	Anumonia	Lead.	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m²)	(µg/m³)	(ng/m <sup>3</sup> )	(ng/m3)	(µg/m³)	(ng/m3)
25.12.2023	24.6	36.4	< 0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	Ozone (µg/m²)	Antmenia (µg/m²)	(jeg/m²)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (µg/m²)	Benza(a)pyrine (ng/m3)
Limit as		180	400	1	20	-6	5	ΞĒ
NAAQ5*	Method of Analysis	18 5182 (Part - 9)	15 5182 (Part - 25)	(8 5182 (Part - 22)	1S 5182 (Part - 26)	As per CPCB By AAS	1S 5182 (Part - 11)	IS 5182 (Part – 12)

Solve

""End of Test Report""

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National Ambient Air Quality Standards.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Not

Name & Address of the

Sample Collected By:

Sample Description:

Sample Name:

Penject:

DMSPL/AN/NIOM/01-08

Mit Nadidili Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

DMSPL Representative

Noise Level Monitoring

Ambient Noise Monitoring

Distr. Sundargarh, Odisha India.

Report No:

Reporting Date:

DMSPL/AN/BICO/2312/001-008

06/01/2024

Ref. Not

SIL

1" Dec. 2023 to 31" Dec. 2023

Monitoring Period: Equipment Used:

Sound Level Meter 15-9989

Protocol Used:

Parameter

As per Govt: Standard

Required:

Customer Name:

Nadiditi Iron Ore Mines

Sample Condition

Good/Clear

#### RESULTS

Sr. No.	Location	Date	Latitude:	Longitude:	Day Time (dB(A))	Night Time {dB(A)}
£	Near Mine Office	04.12.2023	21" 58'09" N	85° 15'33" E	64.4	52.2
2	Near Mines Gate	09/12/2023	215 58723" N	85° 15' 44" E	65.5	53.6
	Standard Li	mit Industrial	Area as per CPC	В	75.0	70,0
3.	Village Kenduhidi	15.12.2023	21" 59"45" N	85° 16'14" E	51.6	413
4.	Village Badipada	17.12.2023	21" 58'04" N	85" 18'33" E	51.2	44.4
5	Village Jhirapani	19;12;2023	21" 59"58" N	85" 13"10" E	52.7	42.3
6:	Village Kushira	21.12.2023	21".55'10" N	85° 15'20" E	51.6	40.2
7	Upwind Direction	25.12.2023	21° 58'14" N	85" 15'20" E	523	40:4
N	Downwind Direction	28.12.2023	21" 57'19" N	85° 13'34" E	53.5	47.3
	Standard Lin	nit Residentia	Area as per CPC	B	55.0	45.0

CPCB : Central Pollution Control Board

""End of Test Report"

Sonatory Street of Street

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-4S001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AAFS/NIOM/01

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt, Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AAFS/BICO/2312/1-6

06/01/2024

Ref. No:

NIL

Monitoring Period:

1" Dec. 2023 to 31" Dec. 2023 RDS with all accessories

Equipment Used: Protocol Used:

IS-5182

Parameter Required: As per TOR Letter

Sample Cutterted By: Sample Description: Sample Type:

DMSPL Representative Ambient Air Quality Monitoring

Free Silica Composition

RESULTS

## Chemical Composition of PM 10 with Free Silica

Location	Date	PM10 (jag/m²)	Free Silica	Cit (µg/m <sup>b</sup> )	- Мg (µg/m²)	N) (ng/m²)	Pb (pg/m²)
Near Mine Office	05.12.2023	72.3	2.0	1.04	0.24	<0.5	0.08
Near Mines Gate:	11.12.2623	74.9	1.6	1.68	0.26	-0.5	0.09
Village - Kendulidi	13:12:2023	64.4	2.1	1.10	0.22	<0.5	0.08
Village Bandipada	20,12,2023	57.3	2.0	1,05	0.22	<0.5	0.07
Village Jhirapani	23.12.2023	65.5	1,7	1,12	0.23	< 0.5	0.08
Village Kashira	29,12,2023	60.3	2.0	y 1210	6.22	<0.5	0.09

\*\*End of Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Project:

DMSPL/FD/NIOM/01-08

Mrs. Nadidih Iron Ore Mines, Under ESL Strel Limited, (BICO)

At Nadidill, PO - Knira

Distt. Sundargarb, Odishu India.

Report No: Reporting Date:

DMSPL/FD/BICO/2312/001-006 06/01/2024

Ref. No: Monitoring Period:

Equipment Used:

1" Dec. 2023 to 31" Dec. 2023 RDS & Personnel Dust Sampler 1S-5182 & CPCB Guidelines

Protect Used:

Parameter

Required:

As per EC Letter

Customer Name:

Nadidih Iron Ore Mines

Sample Condition

Good/Clear

Sample Description: Sample Name:

Ambient Air Monitoring Fugitive Dust Sample

DMSPL Representative

### RESULTS

Sr. No.	Location	Date	LatRude:	Longitude:	SPM (µg/m²)
1	Mine Benches Area	06.11.2023	21° 58'10" N	85" 15"16" E	980.40
2:	Harl Rood	10.11.2023	21° 58'16" N	85" 15'26" E	977.80
3	Crushing Plant	14,11,2023	21" 58'24" N	85" 15'33" E	1040.80
4	Screening Plant	18.11,2023	21"58"30" N	85" 15'40" E	920.20
5	Ore Loading Area	24.11.2023	211 58 28" N	85" 15'10" E	980.30
6	Waste Dump Area	28.11.2023	21" 58"30" N	85° 15' 42" E	820.90

Limit as per Parameter Suspended Particulate Matter (SPM 1200 µg/m²) Consent*
---

State Pollution Control Board, Odisha .

\*\*End of Test Report\*\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Sambor:

Name & Address of the Project

DMSPL/GW/NIONUUL

Mrs Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidili, PO - Kuira

Distr. Sundargarh, Odisha India.

Report No.:

DMSPL/GW/BICO/2312/001

7.8 E-81 Format No.: Party Reference No.:

SIL 25/12/2023

Reporting Date: Ground Water Level:

3.8 Mtr.

Sample Description:

Sample Location: Sample Collected by:

Sampling and Audren Protocid:

Ground Water Sample

Near Mine Site DMSPL Representative

18 3025 & APHA 23rd Edition 2017

Period of Analysis:

14/12/2013/25/12/2023

Receipt Date: Sampling Date: 14/12/2923 10/12/2023

Sampling Quantity:

5.0 Lar + 250ml

Sampling Type:

Grah

Partner

Protoci		fee Birt	Sampling Type:		Cali	
Preservations		Ay but			Limits of 18:10500 -2012	
s No.	Parameter:	Test-Method	Result	Amit	Requirement (Acceptable) Limit	Permissible finet in the Alternate Source
		APITA ASSISTED B Electrometric Method	7.88	27.6	6.546/8.5	No Relayation
	50 F COT 324 ACA.		*BLQ (**LOQ L0 Hasen)	Hazen	3.	15
2/	Color	APHA 2120 B, Visual Comparison Method	HRIO (**LOG 1.0 NTU)	NIU	l l	:5:
3.	Tunklity	APHA, 21 m R. Suphisionatric Method	Agreeable	at .	Agrocable	Agromble
310	(Nious	APRA, 2150 B., Threshold Odour Method	Disagreeable		Agrounte	Agressitie
7.	lasty.	APHA , 21no B. Threshold Test Method		=1.0	210	608
66	Total Medicana	APRA 2340 C. EUTA Turnstne Method	158:20	me/t		200
	(50):	APRA, 3500 Ca B, EDTA Turunumi, Medad	52.20	mg/l	75	
	Calcilin to Ca	APITA 2320 H. Turmeric Method	122.30	mg/i	200	600
8.	Alicaliumy as CaCiO	APTIA, 450s-C1 W, Argundametric Method	78.39	mg/1	2.50	1000
U	Chineside as Cl.	APIIA . 4500 CS: D	*BL(X**LOG 0.02 mg/l)	:10g/I	0.03	No Relazation
100	Cyanide at \$39	APIDA - 3500 Mg B, Calculation Method	7.48	mp/1	36	100:
33	Magnesian Ma		355.20	Topier	500	2600
1,1,	Total Dissolved Seriels.	APHA , 254h C, Gescimetric Method	83.20	reg l	200	400
117	Suighting of Mile	APHA 4500 E. Furbidimestic Method	0.44	med	1.9	1.5
1814	Phorido:s-T	APILA 45001 T), SPADNS Method	20.50	muit	45	No Retacition
13	Simula NO:	18 3025 (P-34), Chromotropic Meriod		mph		No releasings
36.	Mod. in Tre	IN 3022 (P+65):2014(RA/2019)	0.26	111000	-	4.2
17	Ataumman as Al	(S. 1025 (P-65):2014(RA:28H9)	+BLOE+410O-0105 (mp3)	title.		62
		25 3025 (P-65):2014(RA:2019)	*HLO(**1.00.0.011-ing/l)	mg/		2.4
18:	Isovnei		*BLQ(**L()Q 0.002 mg/)	mg/i	80.05	No Relevation
15%	Clarimination CT	(\$ 3025 (P-65);2014(RA/2019)			100 8	



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Sample will be destroyed after one week from the date of serue of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No. DMSPL/GW/MOMBH		Report No.: DMSPL/GW/RICO/2312/001				
					Limits of 15:10500 -2012	
S, No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
779	Planta Committee	APPEA SEED C Chloroform Extraction	*101.0) **1.000 (1.0005.mg/l)	mg/I	ultot.	0.002
311	Stingsii (II)	(Imae 6 of US)(25[Part 39)	28LQ(**LOQ 8 Lmp*)	ma/i.	1.0	No Referation
22	Anionia Desergents as MBAS	Aimes K of 35 13428, 35 3025 (P-68)	*HEQC**LOQ 0.05 mg/0	mgli	0,2	120
25.	Residual Size Chieries	35 3025 9-26; Detho-tohidine Method	*HDLC**D1, 0.15mg/l)	110/1	H	-
34	Sodimu as Na	APHA, 7500 Na. II., FRAME	17,50	ing/I	N.	<u>-</u>
35.	Beraminnah K	APHA 3500 ICB, Flame Footometric Musloud	n.22	Figure	+	-
36	Jine at Zu	15 2025 (P-65) 2014(RA:2019)	0.36	reg/l	4	15
37.	Copper us Car	25. 3025 (P-63):2014(RA-2019)	0.10	18925	0.05	1,5
73.	Marginese in Mil	15:3025 (P-63):2014(RA:2019)	*86.Q(**1.00Q 8.00 mg/th	779	10,1	9.3
3v.	Catmium in GE	18-3025 (P-63):2014(RA:2019)	*HLQ(**LOQ 0:002 mg/l)	mg/l	9.00	No Relaxation
30.	Toulin,Ph	15-3025 (B-65):20(B(RA:2019)	*HLQ(**LDQ 0.002 mg/l)	Hugh	0.01	No Relaxifiant
31.	Selement as Ser	15/3025 (15/65):2804(RA:2000)	*BLQ(**LOQ 0.001 mp3)	mpt	0.01	No Retoration
372	Anenic in Ax	15:3025 (P-65):2014(RA:2019)	*BEQ(**LOQ 0.005 mg/l)	Dain	0.01	No Relevation
33.	Mercor's = 11a	15 3025 (P-65) 281 4(RA 2019)	*181.03 (*73.00) 0,0005 mg/h	mgil	0.901	No Relatation
-34	Timel Colifforns	18 1632,1981, RA-2019	-2	MPS/100ml	Shall not be desectable to any 100 mt sample	
33	F-Xirii	IS 1622 1981, RA-2019	Altsent.	3dP5=100m)	Shall not be desectable in any 100 oil sample	

Note: - 201.Q-Daton Limit of Quantification, 593,000-Limit of Quantification

Signatory of

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2. This report should not be used in any advertising media without our special permission in writing.

3. Sample will be destroyed after one week from the date of issue of test certificate.

4. The results are related to the test items only.

Partner



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Number:

Name & Address of the Project:

Test-Report DMSPL/GW/NIOM/02

M's Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidib, PO - Koira

Distt. Sundargarh, Odiska India.

Report No.:

DMSPL/GW/BICO/2312/002

Format No.:

7.8 F-41

Party Reference No.: Reporting Date:

NIL 25/12/2023

Ground Water Level:

4.2 Mtr.

Sample Description:

Sample Location:

Sample Cultected by:

Sampling and Analysis Protocol:

Preservation:

Ground Water Sample

Village Kenduhidi DMSPL Representative

IS 3025 & APILA 23" Edition 2017

lex linx

Period of Analysis:

14/12/2023-25/12/2023

Receipt Date:

14/12/2023

Sampling Date:

10/12/2023

Sampling Quantity:

5.0 Ler + 250ml

Sampling Type:

Gride

S, Na	Parameter	Test-Mathed	Result	Unit	Limits of 15:10500 -2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
1	pH (ac25°C)	APHA 3500-H* B Electrometric Method	7,95	- 1	6.5 m 8.5	No Relaxation
2.	Cohon	APHA 2120 B, Visual Comparison Method	"BLQ C**LOQ L'ETIANHI	Насел	5	1,5
3	Turbidity	APILS, 2150 B. Nephiclospetric Method	*BLQ (**LOQ LENTU)	NTU		5:
3	Otlour	APHA_2150 H - Tree-floid Oxfour Method	Agrountic	-	Agreçabli:	Agreeable
3	Tave	APHA 21mi D. Thrmhold Test Method	DisApreofile	- 27	Agreeable	Agrocable
B	Total Handress in	APHA , EHOC, EDTA Titrimetric Method.	264.26	mg/l	200	.600
Tr.	Calcium in Ca	APHA: 3500 Ca B, EOTA Titrimetric Mellisd	55700	mpil	75	200.
×	Alkalimty as Call Oc	APHA 2320 B. Titrunetric Method	140.28	11007	200	600
v	Chionide and T	APHA 4509-Cl II Argentemetric Marked	16:30	ingf	230	1000
(10	Country on CN	ABHA . 4590 CN°D	201.0(21.0Q 0.02 mg0)	.008	0.65	No Relaxation
NA.	Mamolian ia Mg	APITA , 3500 Mg B, Calculation Method	6.10	mgl	38	100
12	Total Dissolved Solids	APIEA , 2540 C. Gravimetric Method	338.20	mg4	500	2000
13	Salphine pr.SO <sub>4</sub>	APHA : 4500 E. Turfiilimenii: Method	46.20	=1	200	490
THE	Flooride as F	APHA , 4500-F-D, SPADNS Method	0.12	Tagot I	1,0	1.5
155	Number in NU	18-3025 (P-34) Christiatingou Method	2.52	mg/l	.45	No Relination
10	Poten To	IS 3025 (Paid) 2019 RA(2019)	0.26	mg/T	: 0.4:	Norminum
12	Similar to Al-	08/3025/19/65/E/0014(WA:2019)	*HLQr**LOQ 0.005 mg/t)	me/l	0.03	0.2
. 18.	Danie	IS 31(25 (P-65):2014(RA:2019)	"HLQ:*100.001mg"	ma/l	0.5	2.6
19.	Chromium as Cr	15 3025 (P-65) 2014(RA-2019)	*HLQ(**LOQ 0.002 mp?l)	mat	0.05	No Relaxation



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Snumbe No. (DMSPL/GW/SOOM/92)				Report No. 1	MSPL/GW/B	(CO)(A)(IA)(M)A
					Limits of 18:10500 -2012	
S. Nu.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permosible limit in the Absence of Alternate Source
31	Physiolic Compounds	ANNA, 55:30 C Chloroform Extraction Method	*HF15(**F185 )F0002 mB12)	ngil	0.091	0.002
21.	Stineral Oil	Clause 6 of IS:3025(Part 39)	unse 6 of IS:3025(Part.39) *BLQ(**LOQ 0.1 mg/l)		1.0	No. Relaxation
2.5	Amount Description of SMVAS	Armes & of 15 1342E 15 3025 (P-6E)			6.2	1,0
-23	Residue fice Otionne	15 3025 P-26. Cetts stolenline Method	*BDL(**08.9.15mg/l).	mg/I		
-31	Sydney as No			rod N	8	.F.
3.	Sussim ≈ K	APHA 3500 K II. Flame Photomorric Method	h.20	rea/F		
29	Zmi = Za	15-1025 (P-65):2014(RA:2019)	1.26	mp/L	.3	15.
22	Copper in Cit	15.3625 (P-65):2014(RA:2019)	0.12	mg/l	0.05	1.5
16	Manganese at Mrt	IS 3025 (P-65) 2014(RA:2019)	*BLCR**LOQ-0.01 mp/i)	$=y_1$	92.1	0.3
70	Carladium is Cd	15.3025 (P-65) 2014[RA:2019]	*BLQ(**LOQ 0.002.mg/0.	mg/t:	0.003	No Relaxation
- 2	Last with	15-3025 (P-05120) 4(RA:2019)	*BLD(**1.00 0.002 mg/l)	mild.	0.01	Na Retionation
30.	Selemen in Su	18.3025 (P-05):2014 RA:3019)	*##.Q(**130Q'030H mg/l)	mg/T-	0.01	No Relayation
71.	Aneme at As	ES 3825 (PA65):2014(RA:2019)	*\$6.Q(**1.QQ 0.005 mg/l)	mg/l	0.01	No Relixation
1	Marrier as Hg	18 3025 (P-65)(2014(RA/2019)	*Rt.Q (**1.0Q 0.0005 mg/l)	10g(l)	100.0	No Relievation
14	1 0 10 17 17	IS 1672 (981 ; RA-2019	4	MPSZIGONI	100 s	detectable in any il sample
38	L-Con	15 1672 1981, RA-2019	Absort	\$49%/100mil		detectable in suy d sample

Print - 100 O Helper Lamb of Quantification. \*\*LOG-Lamb of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/GW/NIOM/03

Name & Address of the Project

M's Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Keira

Disti, Sunstargark, Odisha India.

Report No.:

DMSPL/GW/BICO/2312/863

Format No.:

800cParty Reference No.:

Reporting Date:

24/12/2023

7.8 (-01)

Ground Water Level: 4.5 Mtc.

Sample Description:

Sample Location:

Sample Unflected by:

Splutto

Sampling and Analysis

Promote

Prepartment

Ground Water: Sample

Village Badipada DAISPL Representative

fee lins

18 3025 & APILV23" Edition 2017

Period of Analysis:

14/12/2023-25/12/2023 14/12/2023

Receipt Date:

10/12/2023

Sampling Date: Sampling Quantity:

5.01.1r + 250ml

Sampling Fyre:

Grish

					Limits of 1S:	10500 -2012
s. No.	Parameter	Test-Method	Result	(Visite	Requiremen t (Acceptable) Limit	Permissible fimit in the Absence of Absence of Absence Source
	pH (at 25 %)	APELA ASSIGN B Electrometric Method	7.45	in	6.5 (0.8.5)	No Reinsumon
0	(Stimi	APHA 2120 B, Visual Computision	*BLQ (**LOQ L0 Hazen)	Huer	à	- (5
		APBA, 2150 B. Sephlekowetric Method	*BLQ (**LOQ T.0 NTL)	NTU	1	5
3	Tuebidity	Al91A, 2150 B. Threshold Odour Method	Agreeable	20	Agremble	Agreeable
4	Chlour	APRA 2360 B. Threshold Test Method	Agreeant	-	Agreeable	Agreeable.
(0.)	Total Banhass in	APHA_2340 C_EDTA Turimers: Method	150.20	mp/l	200	600
	Cicti	APHA, 3500 Ca B, EDTA Timineuric	48.20	figure	75:	200
3	Colorent in Co	-Mathial .		'mg/l	300	600
16.	Alkalinity av CaCOs	APRA, JEN B. Turinettic Method	120.30	mail	250	1000
0.	Chilorate at CT	APILA, 4500-Cl. B. Argememorie Method	WR.207	17790.		No
10	Cyanide as CN	APHA , 4500 CN-D	*HL(x(**L(x)Q(1,02 mp/l)	mpt	0.05	Reinxation
		APHA 3500 Mg B, Calculation Method	3.50	irig/I	.70	100
1,17	Magnerius in Mg	THE VALUE OF	166.20	mg/l	500	2000
12	Tenal Onnotiver Solids		90.40	me/l	300	400
1,5	Sulptonia in Mily	APRA, 4500 E. Turminimene Merhod	0.52	mail	1.0	1.5
1.4	Philipped Intil	APITA - 4500-1: D. SPADNS Method	26:50	mig/I	45	No Relaxation
15.	Nimm in NOs	IS 3025 (1534) Chromotropic Method	14.172	माप्ति		No relaisation
36.	Jonat TV	IS 3025 (P-68):2014(RA:2019)	0.56			0.2
17.	Alamonium ai Al	\$5 3025 (P-65):2014(RA:2019)	*81*Ö(**I*)() 0.002 mlq)	ing/		2.4
18	Bottes	(S 3025 (P-65):2014(RA:2019)	*BT-Ö(**FOO 0:01 mft/j)	19(2/		1.00
TEV	s hommon se s.r.	IS 3325 (P-45): 3614(R-4;2019)	*ha.cg(**1.00c) 0.002 mg/h	744/	0.05	No Believation

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 1SO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

	gie Na DMSPLIGW/SR	X1140		Report N	s: DMSPL/GW	HIC (3/2312/00
8.					Limits of 15:10500 -2012	
No.	Parameter	Parameter Test-Method		Coit	Requirement (Acceptable) Limit	Ferminsible finuit in the Absence of Alternate Source
2₩	Plumbic Compounds	APHA, 55:00 C Chloroform Extraction *10.00**1.002 0.0005 mg/l		mg/L	0.007	0.002
:21	Messe oil	Clause 6 of JS 3025 (Part 39)	*Ht.Q(**LOQ 0.1 mg/l)	mg/l	11.0	No Relincation
22	MBAS	Atmex R of 15 1342K, 15 3025 (P-68)	*BLQ(**LOQ (\.05 mg/l)	Pgitts	0.2	1.9
48	Tree tree tree state	75-3025 P-26. Ortho-tobulding Marked	*BDL/**DL 0.15mpH	709/1	-	
.24	Nothina Ng	APHA 3500 Na B, Flame Fluxometric Method	76.50	mp1 -	-	
35	Prezentune us, K.	APITA 1500 K B; Flame Photometric Method	5:40	iteg/l		11
260	Zim, air Zir	IS 1025 (P-65) 2014(RA/2019)	0902	mg/t	5	15
25	Copper so Cir	IN J025 (P-65):2014(RA-2019)	0.22	THU/I	0.05	1.5
28.	Stanganor st Mn	(5/3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 mg/l)	ug/t	0.1	0.3
75	Codminmon Cd	15 3025 (P-n5):2014(RA-2019)	*BLQ(**LOQ 0.802 mg/l)	mail	0.003	No Refusation
Ш	Load or Ph	18 3025 (P-65):2014(RA/2019)	*BLO(**LOG 8 602 mg/s	met	0.01	
ij	Selemon as So	IX 3025 (P-65)-2014(RA-2019)	*BT-EX**LOG3-0.001 mg/3	mart	501.0	See Relisation
72	Americas As-	18 3925 (P-65):2014(RA:2019)	*8LO:**LOO 0.005 mg/h		8.01	No Religation
13.	Mirrory as Fig.	MIGHTER 000 100 100 100 100 100 100 100 100 10		mgŦ	0.07	No Relocation
14	Total Californi	N 1622,1901, RA-2010	topic and the second	mg/t:	0.001	No Relatation
15			/ - 4	Mb2/100ml	Shall not be ifer \$00 ml s	eenable in any.
	£04360	18 1622,1981, I(A-2019)	Altson	MPN(100m)	Shall not be den 199 mi s	cetable in any

Note: -\*BLO Belies Limit of Quantification: \*\*LOQ-Limit of Quantification



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/GW/NIOM#4

M/s Nadidili Iron Ore Mines.

Under ESL Steel Limited, (BICO)

At Nadidille, PO - Koira

Distr. Sundargarh, Odisha India,

Report No.

DMSPL/GW/IIICO/2312/004

5.8 F-01

Format No.: Parts Reference No.:

NIL

Reporting Date:

25/12/2023

Genund Water Lavel:

4.2 Mtr.

Sample Description:

Sample Liscation:

Signale Callected by

Sampling and Analysis Protocol:

Name & Address of the Project:

Preservinist:

Ground Water Sample

Village Jhirapani DMSPL Representative

15 3925 & APTIA 23" Edition 2017

Ice Box

Period of Analysis:

14/12/2023-25/12/2023

Receipt Date: Sampling Date: 14/12/2023 10/12/2023

aing s

Sampling Quantity;

5.0 Ltr + 250ml

Sampling Type:

Grab

					Limits of 15:10500 -2012	
N. No.	Parameter			Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
1	HH GLESTEE	APHA (1500-11) B Electrometric Method	- 7.90	30.	6,5 to 8.5	No Refusation
-	Color	APIDA ,2128/8, Vinaal Comparison Method	*BLQ7**LOQ L0 Hazno	Harrin	5	1.5
31	Torbubts	APILS, 2130 B. Sephtelomeone Method	*BLQ (**LOQ 1.6 NTU)	NTU	10	- 5
3/	Odom	AFIA, 2150 B. Threshold Oddar Method	Agracabic	1	Aprendi	Agreeable
6	Tadis /	APHA - 2160 B; Threshold Test Mellod	DesAgreeable	122	Agreeable	Agroculte
16	Tetal Handoon as	APSIA . 2540/C. EDTA Titrimetric Method	155.20	mail	200	600
	Calcium at Cir	APIEA, 3500 Ca B. EDTA Titrimetric Method	40.20	ma/I	.25	-200
1		A194A , 2320 B. Titrimetric Method	146.50	mp1	200	600
18:	Alkalinity as CaCSM	APTIA, ASIRIA T. B. Argennometric Method	84.50	mg1	250	1900
10.	Conside at UN.	APHA, 4500 CN: D	*BLQ(1.00 0.02 mg/l)	(mgi)	0.05	No Relocation
17	Magnesium av Mg	APHA , 3500 Mg B. Calculution Method ,	12:20	mg/L	(0)	100
12:	Total Dissolved Solids	APRA , 2540 C. Gravimetric Method	345.20	mg/f	500	2000
13.	Sulphone as SOs	APIA , 4590 E, Turbidimetric Method	56-20	mi/f	300	400
110	Flooride in F	APIJA , 4300-F D. SPADNS Method	1.22	Tight.	1.01	7.5
13.	Nimicas NVA	15, 3025 (P-33) Chromotopiic Method	23:10	met	45	No Relaxation
10.	loon as for	15: 1025 (P-65):2014(RA:2019)	6,30	Tom.	1:0	No asbesation
17.	Atomosoo as Al	15.3025 (P-65):2614(RA-2019) -	*BLQC**LOQ.0.005.mg/0	Turn	0.03	0.2
18.	Donni	[S-3825 (P-65):2014(RA-2H9)	*BLQ(**LOQ 0.01 mg/l)	umit	0.5	2.4
19	Chromium 29 Cr	75 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ.0.002 (mg0)	msT	0.05	No Relaution



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Samuele No.: DMSPL/GW/NIOM-04				Report Nuc	DMSPL/GW/B1CO/2312/084		
					Limits of 15:10500 -2012		
S. No.	Darameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source	
.290	Phondic Compounds	APHA, 5530 C. Chloroform Extraction Method	*BLQ(**1.0Q 0.0005.mg/l)	Tuest	100001	0.002	
310	Missail Oil	2340 0 of PS:3025(Part:39)	*http(**L000.1 mg/ii	mgfl	1.0	Nov. Relusables	
22.	Americ Octoquety as MBAS	Armes, K. at 15, 13428, 15, 3023 (P-68)	(l/gm 20,0 QO,1**)Q.10*	.reup?t	0.2	1,0	
23.	Resulted thes Chloring	IS 3025 P-26; Ortho-tolorifine Method	*BDL(**DL 0.13mg/l)	mg/l	-	H	
28.	Siyilinin m:50s	APHA,3500 Na B, Flame Photometric Methial	18.60	mpit		-	
25.	Poussinn = 5.	Arrica 3500 K.H. Fixons Promotric Method	6:50	regit		H	
26:	Zmc as 201	15 3025 (P-65):2014(RA-2019)	3.20	mp?	3.	15	
27.	Copput as Cir	IS 3025 (P-65) 2014(RA:2010)	0.13	ing/I	0.05	1.5	
28.	Manganese as Mir.	PS-F025 (P-ii/5)-2014(RA:2019)	*##.QC**1.CQQ 0.03 mg/ly	mpi	0.1	0.3	
29.	Cadhamyas Cd	(\$ 3025 (P-65):2014(RA:2019)	*B1;Q(**1.OQ 8:002 mg/l)	mg/l	(0)003	No Retavation	
38.	Load to Ph	1S 3025 (P-65):2014(RA-2019)	*BLQ(**LQQ 9.002 mg/l)	-11/4/3	11,01	No Relocation	
31.	Sciences in Sc	15 3025 (P-65) 21114(RA: 2019)	*815.0(**1.00 0.001 mg/t)	rig/I	6.01	No Reficultion	
12	Arsenic m. Ar	BS3029 [F66552014] RA(2019)	*BLQC**LOQ 0:005 mg/b	Paper	0.01	No Relevation	
33.	Meconyavita	IN 1025 (P-65):2014(RA)2019):	*BLQ (**LOQ 0.0005 mg/l)	reg/L	0.001	No Relation	
3.4	Tinal Coliffeen	IS 1672:1981::RA-2019	-) 4	5425/100ml	166 ml	поставлени и и и и и и и и и и и и и и и и и и	
38	1:4500	15 1622,1981, RA-2019	Alment	MPN:100ml	Shall test by do	decable in any sample	

\* - "III ()-below Limit of Quantification, \*\*LOQ- Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Name & Address of Party:

DMSPL/NIOM/S/01

Mrs. Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Keira

Distt. Sundargarh, Odisha India.

Riggion No:=

DMSPL/S/BICO/2312/001

Format No.:

5.10 F-01

Party Reference No.:

SIL

Sample Description

Samples Location: Sample Collected by

Inside Mine Area

DMSPL Lab Representative

Reporting Date Receipt Date:

30/12/2023 24/12/2023 20/12/2023

Sampling Date Type of Sampling: Sampling Quantity: Depth of Sampling:

Composite 2.0 Kg 30 cm

Packing Status:

Temp Seafed

Sampling & Analysis Philosoft

IS 2720 & USDA

		Pristucol	Result	Unit
2500	Parameter	(s 2720 (P-26,1987)	8.12	
	g010x25 (C)	18:14767-2000 Rouffirmed 2006	0.30	mSieni
2	Conductivity	A STATE OF THE STA	Sitts Louis	
A.	Soil Texture	DSDA Method, 1968	Vellowish	
4	Calos	USDA Method, 1968		16
1	Water holding capacity	USDA Method, 1968	21.50	
0.	Bulk dervity	USDA Method, 1968	1.22	gm/cc.
		USDA Medical 1968	24.80	mg 190ym
1	University as CI	15TM Method 1968	31-20	mg/100gm
8	Calicium in Cu	USDA Method, 1908	29.40	enge 100 gm
0.	Sodium to 198		60.20	kg/boc
161	Potessium as K	USDA Method, 1968	0:40	76
11.	Organic Matter	IS 2720 (P-22, 1972)	*******	mg(100gr
12	Magnestum in Mg	AISDA Mithod, 3966	10.50	
	Acadieli Minagerai N	15:14684, 0000	188.50	kg-fiec
Th	Aviillable Phosphone	USDA, APILA 4500PC	34.20	ks /Nec
314		APHA-3030D, APHA-3111B	4.50	10g/199gr
135	Spike av Sa	APHA-3030D, APHA-3111B	2.45	mg/100gr
30-	Mangarteur as Ma	APSIA-3030D, APSIA-3111B	1.20	mg/100g
FT.	Christian as Cr		0.20	mg 100g
THE .	Acoustins Pfr	APHA-ROUD, APHA-31118		mg/100g
( lie	Codminion as Cd	APRA-3090D, APRA-3143B	1/44	
		A1977A-7650DL A011A-31 LEB	5,10	mg:100p

APHA-3030D, APHA-3111B

ing 30/

Copper to Co.

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3. Sample will be destroyed after one week from the date of issue of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Numbers Name & address of the Projects

DMSPL/MOM/ST/01

M/s Nadidih Iron Ore Mines, Umler ESI, Steel Limited, (BICO)

At Nadidilli, PO - Kotra

Distr. Sundargarh, Odiska India.

Report No.:

DMSPL/ST/BICO/2312/001

Format Nu.:

Party Reference No.: NIL

Reporting Date:

25/12/2023

7.8 F-03

Period of Analysis:

18/12/2023 to 25/12/2023

Receipt Date:

15/12/2023

Sample Description :

Stack Emission Monitoring

General Information

Sampling Location

Sample Collected by Date of Sampling

Sampling Duration (Minutes)

Stack attached to Make of stack

Diameter of stack (m)

Instruments calibration status

Metrorological Condition Ambient Temperature - Ta("C)

Temperature of stack Gases - Tx (°C) Velocity of stack Gases (m/sec.)

Flow gate of PM (LPM)

Place rate of Gas (LPM)

Sampling condition Protocol used

Mine Site

DMSPL Lab Representative

12/12/2023

42.0 Min

DG-Set.

MS

0.30 Meter

Calibrated

Clear Sky:

20.0

210.0

B.20

22.0

2.0

Isokinetic

15:11255

## RESULTS

S. No.	Test Parameters	Test Method	Results	Linits	Limits as Per CPCB
1.	Particulate Matter (as PM)	IS 11253 (P-1), Gravimetric Method	41.20	mg/Nm <sup>2</sup>	:75
2	Oxide of Numeron (in NOx)	15 11255 (P-7)	150,20	ppitt	710
ž.	Name	DMSPL/ENV/STP/ST/FGA/01, Issue No. 01.01/13/21	16,80	mg/Nm <sup>1</sup>	100
-	Sulptur (Novide us \$132)	4S 41255 (P-2), Titrimetric Method	22.40	ma/Nm3	44
4	Carrion Slineroide (a) CO)	DMSPL/ENV/STR/SUF(IA001, hour No 01.01/11/21	26:40	mg/Nm <sup>9</sup>	150

Note: \* 977 California's Standard Testing Procedure.

\*\*\* Lind Of Biopoid\*\*\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sample Number: Name of the Project: DMSPL/NIOM/SW/01 Mis Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidilli, PO - Koira

Distt. Sundargarh, Odisha India.

Report Next

DMSPL/SW/BICO/2312/001

Format No.:

7.8 F-01

Party Reference No.: NIL

Reporting Date:

25/12/2023

Sample Description: Sampling Location:

Surface Water Sample

River Sample (Near Mines Upstream)

Sample Collected by:

Presinvation:

Sampling and Analysis Protovol:

DMSPL Lab Representative

APHA & IS, 23rd Edition 2017

Period of Analysis:

18/12/2023-25/12/2023

Receipt Date: Sampling Date: 18/12/2023 15/12/2023

Sampling Quantity:

2.0 Ltr + 250ml.

Sampling Type:

Composite

5. No.	Pacameter	Test-Method	Result	Unit
_	gH (at 25 °C)	APHA ,4500-H* B Electrometric Method	7.38	
(-		APHA 2120 B. Visual Comparison Method	22.0	Hazen
2:	Colour	APHA, 2130 B. Nephfelometric Method	d	NIU
M	Turbidity	APHA, 2150-B.; Threshold Test Method	Agreeable	777
d.	Other	APTA 2340 C. EDTA Timmeric Method	88.2	Dyin
2	Lotal Hantress as CaCOs	APHA, 1500 Ca B. EDTA Tricimens Mestical	26.2	Pajitt
49	Calcium as Cir.	APHA , 2320 H. Titrimetric Method	76.5	11/07
1	Atkatinity in CaCOs.	APHA, 4500-Ct B, Argentimetric Method	442	mg-1
9.	Chloide of CT	18 3025 P-26. Ortho-toluïdine Method	*BDL/**TIL (I.15mg/1)	mari
9:	Tenal Residual Oxforina	APITA: 4500 CS-D, Bathinoic Acid Method	*BDL(**DL 0.02 mg/l)	. mirl
10.	Cyanide as CN	APISA , 3500 Mg B. Calculation Method	5.44	muri
15	Magnesilmin at Mg	APHA 2540 C. Orgennetric Method	255	mg/l
12	Total Dissolved Solida	APHA 2540 D. Gravimstric Method	22.0	10102/
T.F.	Total Stopended willds	APELA, ASON O B. Indometric Meshial	6.0	Amp/i
1/4	Disulved Oxygm	IS 3625 (P-29) 2622	4,4	111(6/7
15.	Sideliide	APHA, 450GF D, SPADNS Method	0.26	2036/1
16	F Bioride as V	The state of the s	12.00	Pages
O.	BOD (3 (hos # 27°C)	APHA, 5210 C 15 3025,P-44	38:20	mg/l
18	476905	APHA, 5220 H. Open Rethus Method.	(Maprose(EU))	



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sangle	No.: DMSPL/NIOM/SW/01	Report No.: DMSPL/S	W/BICO/2312/00	
S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity (at 25 °C)	APHA 2510 H. Conductivity Meter Method	0.435	mS/cm
200	National May	78 3025 (P-34) Chromotropic Method	6:10	rig/L
21.	Sediam as No	APHA 3500 Na B, Flame Photometric Method	18.50	ma/I
	Panasan as K	APHA 3500 K.B. Flame Photometric Method	6.22	mail
72.	Tron as Fe	IS 3025 (P-65):2014(RA/2019)	0.44	reg/1
21.	100000	19 1025 (P465) (2014(RA:2019)	*BDL(**BL 0.002 mg/l)	ing/3
24	Altimonium 20-A)	IS 3025 (P465Y30U0RA;2019)	*HDL(**Dt. 0.002 mg/1)	· mg/I
25.	Baron	(S 3025 (P-65);2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/T
20	Hexayalees Chromium as Cr	APHA, S539 C Chloroform Estruction Method	*BESL(**DL G.0004mg/3):	mg/l
27	Phenulic Computed	Chase 6 of 15:3025 (Part 39)	*BDL(**f3L 0.1 mg/t)	mg/l
20	wMineral On	A THE RESERVE OF THE PARTY OF T	*BDL(**DL-0.05 mg/l)	s11971
29.	#Amount Daturgents as MRAS	APHA, 5540 C MIIAS Method	*BDL(**DL 0.05 mg/l)	mg/I
311-	Zmc as Zn	IS 3025 (P+65):2014(RA:2019).	Compact Compact Compact	mu/7
31	Соррег вк Си	IS 3025 (IA-65); 2014(RA:2019)	*BDL(**DL.0.1 ng/l)	
32	Manigonine at Mit	IS 3025 (P-65):2014(RA:2019)	*BEH.(**1)L (0.01 mg/l)	mjt/l
EL.	Cadminitas Ed	IS 3025 (P-65):2014(RA:2019)	*HDL(**DL 0.002 nm3)	mg/f
14.	Татренити	(S-3025 (P-9):2023)	26.1	: mg/1
35	Oil & Grone	IS 3025 (P-39):2021	*BDL(**DL:Z0 ngd):	muz/t
26	Free Ammonta	15-3025 (P-34) 1988	*HDL(**iN: 9.20 mg/0	mg/l
377	Forni kiddilini Nitrogran	1S 3025 (P-34) J988	*HDL(**DL(120 mg/l)	mst21
	Nickel	Simidaril Operating Procedure	*BDL(**DL 0.02 mg/l)	mg/l
AND:		Sundard Operating Procedure	*##X (**5)L 0.02 mg/0	mg/l
104	V <sub>m</sub>	15, 3025 (P.34) (1988	*HDL/**DL 0:20 mg/D	mg/l
10.	Committed Stringer	IS 1622-1081, #A-2019	286	MPN/160ml
#1	Timit Codificen	20.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000	164	MPN/100ml
12.	Feeal Californ	IS 1622,1981, RA-2019	4507	City Solly 101

1000 - Below Detection Limit, \*\*(1) - Detection Limit



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### Test-Report

Sample

DMSPLINIOM/SW

Report No.5

DMSPL/SW/BICTO/2312/002

Name of the Project:

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO) Format No.: Party Reference 7,8 E-01

At Nudidih, PO - Koira

No.3

NIL

Distt. Sundargarh, Odisha India.

Reporting Date:

25/12/2023

Sample Description:

Surface Water Sample

Perind of Analysis:

18/12/2023-25/12/2023

Sampling Location:

River Sample (Near Mines Downstream )

Receipt Date:

18/12/2023

Sample Collected by:

DMSPL Lab Representative

Sampling Date:

15/12/2023

Preservation:

Ree Bloc

Sampling Quantity: 2.0 Ltr = 250ml,

Sampling and Analysis

APHA & IS, 23st Edition 2017

Sampling Type:

Composite

(Appressil-By

Protect:

	Parameter	Test-Method	Result	Unit
1	ph (a) 25 °C)	APHA ,4500-H* Is Electrometric Method	6:50	-
2	Calmir	APIDA 2120 B. Vinnal Comparison Method	27,0	Hazen
3.	Larhidity	APHA, 2130 B. Nephielometric Method	-1	NTU
1	Clárny	APITA, 2150 B. Threshold Test Method	Agreeable	400
5	Faul Hantness as Call On	APPLA 2340 C. TDTA Titrinetisc Memod.	97.1	mart
fit	Calcton to Co	APHA, 3500 Call, LDTA Tummeric Method	26.2	ling/l
-	Alkalomy ar SaleSh	APHA 2320 B. Titrimuric Method	70.2	Tigin
8	Chlorida as Cl	APHA, 4500-Cl B, Argentymetric Method.	42.20	. mg/l
4)	Total Residual Chlorine	15 3025 P-26. Ortho-roluiding Meltind	*BDE(**(it.i).(5mg/t)	mgT
19	CynnidiansCN	APHA , 4500 CN D. Barhituric Acad Method	*BDL(**DL 0.02 mg/l)	mg/L
11.	Magnesium as Mg	APITA: 3500 Mg B. Calendation Method	6:40	mg/T
12	Fetal Dimoleod Sallids	APHA (2540 C. Gravemetric Method	252.0	mg/l
TA.	Trial Suspended soridi	APHA,2540 D. Gravonjetnic Sterbuit	20.0	ma/l
10	Dissilyed Oxygen	APHA,4500 O II. Indometric Method	6.5	trut!
15.	Swiphide	(5.3025 (17-29)/2022	30.20	ma/T
16	Phoride in F	APHA , 4500 F. D. SPADNS Method	9.42.	melt
TT.	(BOD (J Days at 27°C)	APHA, 5210 C / 15 3025,P-44	12.20	met
18.	COD:	APHA, 5220 B, Open Reffux Method	34.40	mg/I

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(Champie will be destroyed after one week from the date of issue of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

words.	Sn. DMSPLNIOM/SW/92	Report No.: DMSPL/5	W/BICO/2312/00	
annihue.	SILE DIGINAL CONTROL TO			
S. Nu.	Parameter	Test-Method	Result	Unit
19	Conductivity of 25 °C)	APHA, 2510 B, Conductivity Meter Method	0.412	mS/cm
20	Stirate as NO:	1S 3025 (P-34) A liminompie Mellina	6.42	mg/1
24.	Sudjumas Na	APHA.3500 Na B, Flame Photometric Method	26.20	mpZ:
22	Potassium as K.	APHA 3500 K.B. Flame Photometric Method	5.64	me/1
23	trun as Fe	18 3025 (P-65):2014(RA:2019)	*HDL(**D1, 0.002 mg/l)	mg/l
24	Abmunium as Al	IS 3025 (P-65):2014(RA:2019)	*HDL[**DL-0.002 mg/l)	mitt/1
	Borns	18 3025 (P-65):2014(RA:2019)	0.44	mill\}
24	Hesavalent Chronom as Cr	15:3025 (P-65):2014(RA-2019)	*BDL(**DL 0.002 mg/l)	mg/1
201	Рашкоја Синронић	APHA, 5530 C Chloroform Extraction Method	*HDL(**DL 0.0004mg/l)	mg/l
27/		Clause 6 of 15:3025(Part 39)	*BDL(**DL 0.1 mg/l)	mg/l
200/	#Anionic Distrigents as MEAS	APHA, 5540 C MBAS Method	*HDL(**DL 0.05 mg/l)	10g/1
24.		18-3625 (P-65):2014(RA:2019)	*HDLC**DL 0.05.mg/li	mg/l
mi.	Zinicas Zin	IS 3025 (P-65):2013(RA:2019)	*HIN.(**D), 0.1 mg/b	100/
31.	Copperación	1S 3025 (JS-65)(2014(RA-2019)	*BDL(**DL 0.01 mg/l)	nis/l
12.	Манданизе в Ма	IS 1025 (Pai5) 2914(RA/2019)	*HER (**D)_ 0.002 mg/0	:mg/I
23	Cadminus, as Cd.	15 3025 (19-9) 2023	76.8	mil/j
340	Embergance	is 3025 (P-39):2021	*HDL(**D), 2.0 mg/l)	mg/l
35:	OHA SIMHS	1S 3025/IP-341:1988	*BDE(**DL 0.20 mg/l)	mg/1
75%	Free Ammonia	IS 3025 (P-34):1988	*BDL(**DL 0.20 mg/l)	rog/I
37)	Listal Ejeldkal Mitrogen	Standard Operating Procedure	*BDL(**DL 0.02 mg/l)	mig/T
301	Nicket	Standard Operating Procedure	*BDE(**DE.0.02 mg/l)	mg/l
3100	Varsitier	18, 1025 (P. VI) 1 988:	*BDLc**(N, 0.20 mg/l)	mg/l
40.	741100willholf. Асутирос	IS 1623 (984), RA-2019	300	NIPN/100m
4.1	Total Coliforn		180	MPN/100m
42.	Focal Coliforn	15 1622,1981, RA-2019	180	WIE SHI I DOM

HOL-Hele Bound Climb \*\*DL-Detection Limit

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIOM/01

Mrs Nadidily Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidib, PO - Koira

Distt. Sundargarh, Odisha India.

Report No:

Reporting Date:

DMSPL/AAM/BICCU2401/001

05/02/2024

Ref. No:

Monitoring Period:

Equipment Used:

January 2024

RDS & FPS with all accessories IS-3182 & CPCB Guidelines

Protocol Used:

As per EC Letter

Nadidib Iron Ore Minex

Sample Collected By: Sample Description:

Lucation: Latitude:

BMSPL Representative

Ambient Air Quality Monitoring

Near Mine Office (A1)

21" 58'09" N

Parameter Required: Costomer Name:

Sample Condition

Good/Clear

Longitude:

85° 15'33" E

### RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m²)	(ng/m²)	(ng/m²)	(ng/m3)	(pg/m <sup>1</sup> )	(ng/m3)
03.01.2024	30.2	35.2	40.05	<0.05	€0.50	<5.0	<1.()

	Parameter	Ozone (µg/m²)	Ammonis (µg/m²)	Lead (jug/m²)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrine (ng/m3)
Limit as	-	180	400	1	20	6	5	ΞÍ
NAAQS*	Method of Analysis	1S 5182 (Part - 9)	(Part – 25)	18 5182 (Part – 22)	18-5182 (Part – 26)	As per CPCB By AAS	(S 5182 (Part - 11)	18 5182 (Part - 12)

National Ambient Air Quality Standards.

""End of Test Report"





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Plot No. 672/18. First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIOM/02

M's Nadidilt from Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidib, PO - Keira

DMSPL Representative

Distr. Sundargarh, Odisha India.

Ambient Air Quality Munitoring

Report No:

Reporting Date:

DMSPL/AAM/BICO/2401/002 05/02/2024

NIL.

Ref. No: Monitoring Period:

January 2024

Equipment Used:

RDS & FPS with all accessories 15-5182 & CPCB Guidelines

Protocol Used:

As per EC Letter:

Parameter Required: Customer Name:

Sample Condition Longitude:

Nadidih Iron Ore Mines Good/Clear 85" 15'44" E

Escution: kantude:

Sample Collected By:

Sample Description:

Near Mines Gate (A2)

21° 58'23" N

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(pg/m <sup>3</sup> )	(pg/m²)	(jug/m²)	(ng/m³)	(ng/m3)	(jig/m²)	(ng/m3)
08.01.2024	26.20	32.50	< 0.05	<0.05	< 0.50	<5:0	<1.0

	Parameter	Ozone (µg/m³)	Ammonia (με/m³)	Lead (ng/m²)	Nickel (ng/m <sup>1</sup> )	Artenic (ng/m3)	Benzene (µg/m³)	Benzo(n)pyrim (ng/m3)
timit as	into (	180	400	í	20	6	5	ī
NAAQS*	Method of Analysis	45 5182 (Part - 9)	IS 5182 (Part - 25)	18 5182 (Part – 22)	15 5182 (Part - 26)	As per CPCH By AAS	15 3182 (Part - 11)	15 5182 (Part – 12)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Praject:

Location

Latitudes

DMSPL/AA/NIOM/3

M/s Nadidih Iron Ove Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Odnha India.

Report No: Reporting Date: DMSPL/AAM/BICO/2401/003

05:02/2024

Ref. No:

NIL

Monitoring Period:

January 2024

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Sample Condition Longitude:

Good/Clear. 85" 16"14" E

DAISPL Representative

Ambient Air Quality Munitoring Village - Kenduhidi (A3)

21" 59" 45" N

RESULTS

Date of Sample	Ozune (ug/m²)	Ammonia (µg/m²)	Lead: (ag/m²)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrine
14.01.2024	22.50	36.20	L CALLWAY			(GREGGA)	(rig/ms3)
MANUAL SWEET	2000000	.00,20	<0.05	<0.05	<0.50	45.0	<1.0

	Parameter	Ozone (#g/m²)	Ammonia (µg/m²)	Lead (s@/m²)	Nickel (ng/m²)	Arsenie (ng/m3)	Senzene (µg/m³)	Benzo(a)pyrine (ng/m3)
Limit as	.19	180	400	t	20	6	5	1
NAAQS	Method of Analysis	IS 51N2 (Part ~ 9)	18-5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part - 26)	As per CPCB By AAS	15 5182 (Part - 11)	18 5182 (Part - 12)

blent Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Lucations

Lutitude:

DMSPL/AA/NION/4

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (IIICO)

At Nadidih, PO - Kotra

DMSPL Representative

Village Bulipada (A4)

21" 58"84" N

Distr. Sundargarb, Odisha India.

Ambient Air Quality Monitoring

Report No: Reporting Date:

Reporting Date: Ref. No:

Monitoring Period:

Equipment Used: Protocol Used:

Parameter Required: Customer Name:

Sample Condition Longitude: DMSPL/AAM/BICO/2401/004

05/02/2024 NIL

January 2024

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

As per EC Letter

Nadidih Iron Ore Mines

Good/Clear 85° 18'33" E

#### RESULTS

Date of Sample	Ozone	Ammania	Lead:	Nickel	Arsenic	Benzene	Benzo(a)pyrin
	(ng/m²)	(µg/m²)	(ng/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
18.01.2024	24.50	36.20	< 0.05	±0.05		<5.0	25 OF 1

	Parameter	Ozone (µg/m²)	Ammonia (ug/m²)	Lead (jig/m²)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrine (ng/m3)
Limit as	(34) 	180	400	7	20	6	5	3
NAAQS*	Method of Analysis	1S 5182 (Part - 9)	18 5182 (Part – 25)	IS 5182 (Part – 22)	IS 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	15:5182 (Part - 12)

National Ambient Air Quality Standards.

""End of Test Report""





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  - 3. Sample will be destroyed after one week from the date of issue of test certificate.
  - 4. The results are related to the test items only.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No: Name & Address of the

Project:

Sample Collected By: Sample Description: Lucation: Lattinde:

DMSPL/AA/NIOM/5 MA Nadidih Iran Ore Mines, Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

DMSPL Representative Ambient Air Quality Monitoring Village Jhirapani (A5) 21" 59"58" N

Report No: Reporting Date:

Ref. No: NIL

Monitoring Period: Equipment Used: Protocol Used:

Parameter Required: Customer Name: Sample Condition Longitude:

DMSPL/AAM/BICO/2401/005

05/02/2024

January 2024

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

As per EC Letter Natidila Iron Ore Mines

Good/Clear 85° 13'10" E

#### RESULTS

Date of Sample	Ozume	Antmonia	Dend_	Nickel	Arsenic	Benzene	Benzo(a)pyrin
	(µg/m²)	(µg/m²)	(ug/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
13.01.2024	21.50	34,20	<0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	Ozone (µg/m²)	Ammonia (μη/m²)	Lend (ng/m <sup>3</sup> )	Nicket (ng/m³)	Arsenie (ng/m3)	Henzene (µg/m²)	Benzo(a)pyrine (ng/m3)
Limit ax	wg.	180	400	1/	20	6	5	1
NAAQS*	Method of Analysis	18 \$182 (Part - 9)	IS 5182 (Part ~ 25)	1S 5182 (Part - 22)	15 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

""End of Test Report"

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Noc

Name & Address of the

Project:

DMSPL/AA/NIOM/6

M's Nadidib Iron Ore Mines,

Under ESL Steel Limited, (BICO)
At Nadmith, PO - Koira

Distr. Sundargarh, Odisha India.

Report No:

Ref. No.

DMSPL/AAM/BICO/2401/006

Reporting Date: 05/02/2024

NIL

Monitoring Period: January 2024

Equipment Used:

RDS & FPS with all accessuries

IS-5182 & CPCB Guidelines

As per EC Letter

100 3

Sapproved B

Partne

Sample Collected By:

Sample Description: Location:

Location: Latitude: DMSPL Representative

Ambient Air Quality Monitoring

Village Kashira (A6)

21° 55' 10" N

Parameter Required:

Customer Name; Sample Condition

Protocol Used:

r Name; Nailfdib Iron Ore Mines Condition Good/Clear le: 85° 15'20" E

Longitude:

#### RUSULTS

Date of Sample	(ug/m <sup>2</sup> )	Ammonia (ag/m²)	Lend (ug/m²)	Nickel (og/m <sup>3</sup> )	Arsenie (ng/m3)	Benzene (µg/m²)	Benzota)pyrine (ng/m3)
28.01.2024	25.6	35.20	<0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	Ozone ()(g/m²)	Ammonia (µg/m²)	Lead (µg/m²)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene ()ug/m³)	Benzo(a)pyrine (ng/m3)
Limit as	14	180	400	1.	20	6	5	1
NAAQS*	Method of Analysis	15 5182 (Part - 9)	18 5182 (Part - 25)	18 5182 (Part - 22)	18 5182 (Part – 26)	Av per CPCB By AAS	IS 5182 (Part - 11)	1S 5182 (Part - 12)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 15O-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/01-09

M/s Nudidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidili, PO - Keira

Distr. Sundargarh, Odisha India.

Report No:

Reporting Date:

NIL

Ref. No:

Monitoring Period:

Equipment Used: Protocol Used:

Customer Name: Sample Condition

Longitude:

DMSPL/AA/BIC/2401/001-009

05/02/2024

I" Jim, 2024 to 31" Jun, 2024

RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

Sample Collected By: Sample Description:

Location: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Near Mine Office (A1)

21° 58'09" N

Parameter Required:

As per EC Letter Nudidih Iron Ore Mines

Good/Clear. 85° 15'33" E

#### BESULTS

Date	(10g/m <sup>3</sup> )	PM <sub>Ls</sub> (mg/m <sup>5</sup> )	SO <sub>2</sub> (µg/m²)	NO <sub>2</sub> ()(g/m <sup>2</sup> )	CO (mg/m3)
01.01.2024	62:2	45.3	16:2	26.4	0.61
02,01,2024	65.4	41.9	15.6	33.5	0.62
98,61.2024	73,3	43.8	16.4	25.6	0.64
09.01.2024	64.8	443	18.5	31.2	0.62
15.91.2024	70.9	43.1	15.7	28.6	0.70
16,0112024	2309	29/9	19.2	29.2	0.55
22.01.2924	74.2	33,8	16.3	24.9	0.54
23.01.2024	66.9	28.2	17.3	26.3	0.52
29.01.2024	73:2	37.3	16.3	24.1	0.54

Limitas per	Parameter	PM <sub>10</sub> (µg/m <sup>1</sup> )	PM2.5 (µg/m <sup>3</sup> )	SO <sub>2</sub> (ng/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m³)
	30	100	60	80	80	4
NAAQS*	Method of Analysis	15 5182 (Part - 23)	15 5182 (Part - 24)	1S 5182 (Part - 2)	18 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

Location:

DMSPL/AA/NIO/10-18

Mr. Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidith, PO - Kolra

DMSPL Representative

Distr. Sundargarh, Odisha India.

Ambient Air Quality Munitoring

Report No: Reporting Date: DMSPL/AA/BIC/2401/010-018

05/02/2024 NIL

Ref. Not:

Monitoring Period:

1" Jan. 2024 to 31" Jan. 2024

Equipment Used:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

Protocol Used:

Parameter Required:

Customer Name:

Sample Condition

As per EC Letter Nadidih Iron Ore Mines

Good/Clear 85° 15'44" E

Latitude:

Sample Unflected By-

Sample Description:

Near Mines Gate (A2) 21° 58°23" N

Longitude:

#### RESULTS

Date	(ag/m <sup>3</sup> )	(Mg/m²)	5O; (ug/nc <sup>3</sup> )	NO <sub>2</sub> (jeg/m <sup>3</sup> )	(mg/m3)
01.01.2024	84.9	43.5	18:8	30,5	0.70
02.01.2024	86.7	44/2	19,7	26.4	0.93
08.01.2024	84.2	39.3	[1].9	27.7	0.86
09.01.2024	74.9	:43.6	19.3	32.5	0.82
15.01.2024	80.4	38.3	18.2	27.6	8.96
16.01.2024	82.5	464	166	26.5	0.91
22.01.2024	65.4	41,9	15.6	33.5	0.62
23.01.2024	72.3	44.8	15.4	25.6	0.60
29.01.2024	60.0	42.5	18.5	31.2	0.62

Limit as	Parameter	PM <sub>10</sub> (ug/m <sup>7</sup> )	PM24 (ng/m <sup>3</sup> )	SO <sub>2</sub> (pg/m <sup>2</sup> )	NO <sub>5</sub> (µg/m <sup>3</sup> )	CO (mg/m²)
	198	100	60	88	80	4
NAAQ5*	Method of Analysis	IS 5182 (Part - 23)	15 5182 (Part - 24)	15 5182 (Part - 2)	IS 5182 (Part - 6)	[5 5182 (Part - 10)

National Ambient Air Quality Standards.

""End of Yest Report"



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/19-27 51/s Nadidib from Ore Mines, Under ESL Steel Limited, (BICO)

At Naditth, PO - Keira

Distr. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2401/019-027

05/02/2024 NIL.

Ref. Not Monitoring Period:

Equipment Used: Protocot Used:

1" Jan. 2024 to 31" Jun. 2024

RDS & FPS with all accessories 18-5182 & CPCB Guidelines

Sample Collected By:

Sample Description:

Location: Launde: DMSPL Representative

Ambient Air Quality Monitoring

Village - Kenduhidi (A3)

21" 59" 45" N

Parameter Required:

Customer Name: Sample Condition

Longitude:

As per EC Letter

Nadidih Iron Ore Mines

Good/Clear 85° 16'14" E

#### RESULTS

Date	PMrs (agm <sup>2</sup> )	PM2x (pg/m <sup>2</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>b</sup> )	CO. (mg/m3)
03.01:2024	65.5	36.6	15.7	26.4	0.64
04.01/2024	66.2	27.4	7.1	18.4	0.53
10.01,2024	57.3	303	7.3	1731	0.58
11.01.2024	64.4	29.9	8.2	16.9	0.57
17,01.2024	.57.5	31.4	8.3	15.1	0.55
18.01.2024	65.5	46.6	15.7	26.4	0.66
24.01,2024	66.2	26.4	7.3	\$8.4	0.53
25.01.2024	58.3	30.3	7.3	15.8	0.58
31.01.2024	66.2	35.4	8.5	18.5	0.83

Limitas	Parameter	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>3,8</sub> (μ <u>e</u> /m <sup>3</sup> )	SO: (µg/m²)	NO; (μ <u>μ</u> /πτ <sup>3</sup> )	(mg/m <sup>2</sup> )
	127	1001	60	80	80	4
NAAQS*	Method of Analysis	15 5182 (Part - 23)	18 5182 (Part - 24)	1S 5182 (Part - 2)	18 5182 (Part - 6)	15 5182 (Part - 10)

National Ambient Air Quality Standards

"\*End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitudes

DMSPL/AA/N10/28-36 M/s Nadidib fron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidin, PO - Koira

DMSPL Representative

Village Badipada (A4)

21° 58'04" N

Distr. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No:

Reporting Date:

Ref. No:

Munitaring Period: Equipment Used:

Protocol Used:

Customer Name: Sample Condition

Parameter Required:

Longitude:

DMSPL/AA/BIC/2401/028-036

05/02/2024

1" Jun. 2024 to 31" Jun. 2024 RDS & FPS with all accessories 18-5182 & CPCB Guidelines.

As per EC Letter

Nadidih Iron Ore Mines

Good/Clear 85" 18"33" E

## RESULTS

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>18</sub> (pg/m <sup>3</sup> )	SO; (µg/m²)	NO <sub>2</sub> (jig/m <sup>2</sup> )	CO (mg/m3)
#3.01.2024	72.3	40.8	17.4	25.6	0.64
84.01.2024	64.0	44.5	18.5	312	0.62
10.01.2024	73.9	43.3	16.2	28.6	0.70
11,01,2024	65.5	45.6	15.7	29.4	0.66
17.01,2024	62.2	27.4	9.1	18.4	0.53
18.01.2024	57.3	30.3	7.3	17.8	0.58
24,01,2024	64.4	29'0'	7.1	16.9	0.54
25.01.2024	57.5	28.4	6.7	15.1	0.55
31.01.2024	60.8	44.5	16.5	31.2	0.62

	Parameter	(sig/m <sup>1</sup> )	PM <sub>2.5</sub> (jig/m <sup>3</sup> )	SO <sub>2</sub> (mg/m <sup>2</sup> )	NO: (µg/m²)	CO (mg/m²)
Limit as	OH.	100	60 /	80	80	4
NAAQ5*	Method of Analysis	15 5182 (Part - 23)	IS 5182 (Part - 24)	18 5182 (Part - 2)	18 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 15O-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Not

Name & Address of the

Sample Collected By:

Project:

DMSPL/AA/NIO/37-45

M/s. Nadidib fron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidilli, PO - Koira

DMSPL Representative

Distr. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No: Reporting Date: DMSPL/AA/HIC/2401/037-045

05/02/2024

NIL Ref. No:

Monitoring Period:

1th Jan. 2024 to 31th Jan. 2024

Equipment Used:

RDS & FPS with all accessories 15-5182 & CPCB Guidelines

Protocol Used:

Parameter Required: Customer Name:

As per EC Letter Natidih Iron Ore Minus

Sample Condition

Good/Clear

Sample Description: Locations Latitude:

Village Jhirapani (A5) 21° 59'58" N

Longitude:

85° 13'10" E

#### RESULTS

Date	PNI <sub>0</sub> (µg/m <sup>2</sup> )	PNI <sub>2.8</sub> (arg/m <sup>3</sup> )	SO; (µg/m²)	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m3
05.01.2024	583	42.B	1B.7	24.8	9,63
06.01.2024	62.2	45.3	16.2	26.4	0.61
12.01.2024	65.4	41.9	15.6	33.5	0.62
13.01.2024	72.3	40.8	16.4	25.6.	0.64
19.01.2024	64.8	44.5	18.5	31.2	0.63
20,61.2924	70.9	1437.1	16.2	27:6	0.70
26.01.2024	65.5	46.6	19.7	26.4	0.65
27.01.2024	63.9	.44.4	18.9	26.6	0.65
30.01.2024	68.3	23.4. 7	8.5	16.1	9.56

Limit as	Parameter	PM16 (µg/m²)	PM1.5. (µg/m³)	SO: (µg/m³)	NO; (ag/m <sup>3</sup> )	(mg/m³)
	**	100	60	80	ยย	4
NAAQS*	Method of Analysis	IS 5182 (Part - 23)	15:5182 (Part - 24)	15 5182 (Part -2)	15 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Nor Name & Address of the Project!

DMSPL/AA/N10/46-54 Mr. Nadidik Iron Ore Mines. Under ESL Steel Limited, (BICO) At Nadidik, PO - Knira

Distt. Sundargarh, Odiska India.

Ambient Air Quality Monitoring

DMSPL Representative

Village Kashira (A6)

21" 55"10" N

Report No: Reporting Date: Ref. Nic

DMSPL/AA/BIC/2401/046-054

05/02/2024 NIL

Monitoring Period: Equipment Used:

to Jan. 2024 to 31" Jan. 2024 RDS & FPS with all accessories 15-5182 & CPCB Guidelines

Protocol Used: Parameter Required:

As per EC Letter

Customer Names Sample Condition

Nadidih Iron Ore Mines Good/Clear

Longitude

85° 15' 20" E

Sample Collected By: Sample Description:

Location: Latitude:

## RESULTS

Date	PM <sub>m</sub> (pg/m <sup>2</sup> )	PM <sub>13</sub> (µg(m²)	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m3)
05.01.2024	65.4	29.9	9.1	18.9	0.54
96.01.2024	58.5	28.4	8.3	15.1	0.56
12.01.2024	97.3	29.4	9.0	19.4	0.52
13.01,2024	60.3	23.4	6.7	16.1	0.53
19.01.2024	55.4	24,4	11/1	15.3	0.52
20.01.2024	57.5	31.4	8.7	16:1	051
26,01,2024	58.3	28.4	9.2	18.4	0.54
27.01.2024	63.3	20.4	63	17.1	0.53
30.01.2024	69.8	44.5	15.3	31.2	0.62

Limit as	Parameter	PM <sub>10</sub> (µg/m <sup>x</sup> )	PMas (jug/m²)	SO <sub>2</sub> (μg/m <sup>4</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	(mg/m <sup>3</sup> )
	iii	100	60/	80	00	4
NAAQS*	Method of Analysis	15 5182 (Part - 23)	1S 5182 (Part - 24)	1S 5182 (Part - 2)	15 5182 (Part - 6)	18 5182 (Part – 19)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AN/NIOME01-08

M/s Nadidih Iron Ore Mines.

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AN/BICO/2401/001-008

05/02/2024

Ref. No: NIL

Monitoring Period:

19 Jan. 2024 to 31" Jan. 2024

Equipment Used:

Sound Level Meter

Protocol Used:

15-9989

Sample Collected By:

DMSPL Representative

Parameter. Required:

As per Govt. Standard

Sample Description: Sample Name:

Ambient Noise Monitoring Noise Level Monitoring

Customer Name:

Nadidily Iron Ore Mines

Sample Condition:

Good/Clear

#### RESULTS

Sr. No.	Lascotium	Date	Latitudes	Langitude:	Day Time (dB(A))	Night Time [dB(A)]
4	Near Mine Office	02.04.2024	21" 58'09" N	89° 15°33° E	65.5	50.4
2	Near Mines Gate	07.01.2024	21" 58"23" N	85" 15"44" E	64.4	51.8
	Standard Li	mit Industrial	Area as per CPC	В	75.0	70.0
3	Village Kendubidi	12,01,2024	21" 59"45" N	85° 16'14" E	52.4	42.5
4	Village Badipada	16.01.2024	21" 58:04" N	85 18 33" E	50.8	41.4
*	Village Jhirapani	21.01.2024	21 59 58" N	88, 13,19, E	54.7	41.7
(6)	Village Kashira	23.01.2024	21" 55'10" N	85° 15°20° E	53.9	41.8
7	Upwind Direction	27.01.2024	21° 58°14" N	85" 15"20" E	50.5	42.9
8	Downwind Direction	36.61.2624	21° 57'19" N	85° 13'34" E	54.6	43.8
	Standard Lin	nit Residentia	Area as per CPC	В	55.0	45.0

CPCB :- Central Pollution Control Board

""End of Test Report"

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AAFS/NIOM/01 Mrs. Nadidih Iron Ore Mines. Uniter ESL Steel Limited, (BICO)

At Nadidih, PO - Keira

Distr. Sondargarh, Odisha India.

Report No:

Ref. No.

DMSPL/AAFS/BICO/2401/1-6

Reporting Date: 05/02/2024

NIL.

Munituring Period:

1º Jan. 2024 to 31º Jan. 2024

Equipment Used:

RDS with all accessuries

Protocol Used: 15-5182

Sample Collected By:

Sample Description: Sample Type ::

DMSPL Representative

Ambient Air Quality Munitoring

Free Silien Composition

Parameter Required:

As per TOR Letter

Mining

RESULTS

## Chemical Composition of PM 10 with Free Silica

Location	Date	PN110 (102/10 <sup>2</sup> )	Free Silica	Ca (jig/m²)	Mg (µg/m²)	Ni (ng/m²)	Pb (μg/m²)
Near Mine Office	05:01:2024	72.5	2.2	1.20	0.22	<0.5	0.67
Near Mines Gate	11.01.2024	20.2	1.9	1.18	0.26	<0.5	0.09
Village - Kenduhidi	13:01.2024	18.5	2,4	1,10	0.24	<0.5	0.08
Village Bandipada	20.01:2024	62.5	23	1.22	9.22	<0.5	0.68
Village Jhicapani	25:01:2024	64.2	2.5	1,10	0.22	-30.5	0.07
Village Kashira	29.01.2024	67.6	2.4	1.18	0.18	<0.5	0.08

\*\*End of Report\*\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/FD/NIOM/01-08 M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Soudishib, PO - Koira

Distt. Sundargach, Odisha India.

Report No: Reporting Date: DMSPL/FD/BICO/2401/001-006

05/02/2024

Ref. No:

NIL Monitoring Period:

Equipment Used: Protocol Used:

1" Jan. 2024 to 31" Jan. 2024 RDS & Personnel Dust Sampler

IS-5182 & CPCB Guidelines

Sample Collected By:

Sample Description:

Sample Name:

DMSPL Representative

Customer Name:

Fugitive Diet Sample

Parameter. Required:

Ayper EC Letter

Ambient Air Monitoring

Sample Condition

Nadidih Irun Ore Mines

Good/Clear

#### RESULTS

Sc. No.	Location	Date	Latitude:	Longitude:	SPM (µg/m <sup>3</sup> )
1	Mine Benches Area	06.01.2024	21° 58'10" N	85" E5"16" E	895,40
2	Hauf Road	10.01.2024	21" 58"16" N	85° 15'26" E	920.80
3	Crushing Plant	14.01.2024	21° 58'24" N	85° £5'33" E	9811310
4	Screening Plant	18.01,2024	21" 58'30" N	85" L5'40" E	1020/20
3	Ore Loading Area	24.01.2024	21° 58'28" N	85° 15'10" E	1030.00
.6	Waste Dump Area	28.01.2024	21" 58"30" N	851 F5142" E	920.90

Limit as per Consent*	Parameter	Suspended Particulate Matter (SPM 1200 µg/m²)
--------------------------	-----------	---

State Pollution Control Board, Odisha.

"End of Test Report"

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Samber:

Name & Address of the Project: DMSPL/GW/SIONUIT

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Koiru

Distr. Sunitargarh, Odisha India.

Report No.:

DMSPL/GW/BICO/2401/001

Format No.:

7.8 F-01 NIL

Party Reference No.: Reporting Date:

22/01/2024

Ground Water Level:

3.8 Mtr.

Sample Description:

Sample Location: Sample Colleged by:

Sample Coffeeted by: Semples and Analysis

Sampling and Analysis Protocol:

Personnel.

Ground Water Sample

Near Mine Site DMSPL Representative

tre flox

15 3025 & APHA 23th Edition 2017

Period of Analysis:

14/01/2024:20/01/2024

Receipt Date: Sampling Date: 14/01/2024 12/01/2024

Sampling Quantity:

5.0 Lto > 250ml

Sampling Type:

Grab

Managh:

Perser	Yation:	FCC BOA	Control Printing Co. London		Market Comments	
					Limite of 1S:	10500 -2012
si Na	Parameter	Test-Method	Result	Unit	Requirement (Arceptable) Limit	Permissible fimit in the Absence of Alternate Source
Ti.	pH (st.257C)	APSEA (4500-H) Is Electrometric Method	7.88	1)60	6.5 (0.85)	No Heimation
-	College	APHA 2120.B, Visual Comparison Method	101.0 (*11.00 L0 Hazzn)	Harm	- 5	.15
3.	Yormany	APHA, 2130 H, Nephlelemetric Method	+BEQ (**LOQ L@NTU)	NTU	1	: 8:
6.	Ostorr	APILA, 2150 B., Threshold Odour Method.	Aproxitie	17	Agrocible	Agreemble
5.	Lieuc-	APHA _2160 B. Threshold Test Method	Disagnosible	iii.	Agreculte	Aapsmitte
9.	Total Hardress as CACOL	APHA : 2140 C. EDTA Titimetric Method	158.20	турт	200	500
7	Calcium in Cit	APNA, 3500 Ca B, EDTA Turimetric Method	52-20	mg/s	.75	209
1	Alkalistis as CaCOs	APHA , 2320 B. Titronutric Method	122.36	mp1	200	600
V	Cliforide as C1	APHA, 4500-CI B, Argenton etric Method	82:50	ngl	250	15000
10.	Cyanide in CN	APHA (4500 CN: D :	*BCQ!**LOG 0.02 mpl)	med	9.03	No Retrestion
2116	Magnesium to Mg	APILA., 3500 Mg H. Calculation Method - 7	7.57	ing!	.10	190.
TI.	Total Dissolved Solish	APHA , 2540 C., Gravimense Method.	388.20	70497	500	2009
73.	Silliphine as SO <sub>4</sub>	APHA 4500 E. Turbslimeric Method	82.20	mgrt	200	:4011
14.	Fluoride at F	APHA, 4500-F D, SPADNS Method	0.42	mg/i	1.0	13.5
15.	Nitrate its NOs	15:3023-(P-34) Chromotropic Method	21.50	mg/I	45	No Reliamite
10.	Tron as Vic	IS 3025 (P-65):2014(RA-2019)	0.22	Dust	1.0	Northannor
15	Alaministration (s. A)	PS 3025 (P-025):2014(RA-2014)	*BEQ(**E0Q:0.003 Hg/1)	ragifi	0.03	0.2
18.	Horon	15 302X (P-65) 201 4(RA 2010)	*BLQC**LOQ 0.01 ing/D	mg/I	0.5	2.4
19	Chromiani as Cv.	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/l)	rig/l	0.05	No Religiation

Signalory S

Solution

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

amele	No.: DMSPL/GW/NION	COL		Report Nu.: D	MSPL/GW/B	ICO/2401/001
					Limits of IS:	10500 -2012
Na:	Parameter	Test-Method	Result		Requirement (Acceptable) - Limit	Permissible limit in the Absence of Alternate Source
20	Phenolic Compounds	APITA, 5530 C Chloroform Extraction	*BLQ(**LOQ 8.8005 ==/1)	rog/t	0.001	0.002
21.	Misera (60	Method Clambs 6 of 18:3025 (Part 19)	18gg 1.0.001.1**90.08*	mjoli	1.0	No Relination
32.	Алионіс Эхентропі во	Amus K of th 13428, IS-3025 (P-68)	*841:Q5 **1.0Q 0:05 mg/0	ne't	0.3	17.10
31.	Residual free Chlorina	15 3025 P-26, Getto-tolumbre Method	*BDL(**DL 0.15mg/l)	Agm:	ř÷.	
24.	Sodium as Na	APSIA 2500 Na B. Flame Photometric Method	19.52	mpt	-	-
25	Potensium in K	APHA 3500 K ti, Flaine Photometric Method	6.24	Figor:	-	
36	Zinc au Zin	18:3025 (P-65);2014(RA:2019)	0.40	mp7		15
-11	Copper as Co	IS 3825 (P-65):2004(RA-2019)	6.15	ng1	0.05	1.5
26	Minimanese as Min	IS 3025 (P-65):2014(RA:2019)	*BEQ(**E0Q:0:01:ng/0	(FEE)	0.1	0.3
78.	Cadminio es Cil	15 3025 (P-65):2014(RA/2019)	*B139**130Q-0-002 mig/3)	aggf.	0.003	No Relavation
311	London Ph.	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ:BB02 mg/l)	rog t	0.01	No Belieutio
33.	Selentain at 5c	IS 3025 (P-65) 2014 (RA-2019)	*81,Q(**1,GQ 0.001 mg/l)	mari	0.03	No Relevatio
92	Anguistas Av	ES 3028 (P-65) 2014(RA/2014)	# BLQ(**1,000 0.005 og fr	Tigm	10.01	No Relaxatio
11.	Mercey with	ps:3628 (#583):2814(RA/2019)	*BLQ (**LDQ 0.0005 mg/l)	mg/l	0.003	No Relacation
1.74	Total Critisen	PS 1m22:198(), 3EA-2019	-9	MPN/100mF	100:00	lesectable in any Learngrie
15	E/Cob	IS 1622,1981, RA-2019	Absent	MPN/100ms		letoctable in smj I sample

Note: - \*W.Q-Below Limit of Quantification, \*\*LOQ- Limit of Quantification

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Plot No. 672/18. First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Number:

Name & Address of the Project:

Test-Report

Report Not

DMSPL/GW/HICO/2401/002

Mrs Nadidih Iran Ore Mines.

Format No.: Party Reference No.: 7.81-01

Under ESL Steel Limited, (BICO)

DAISPLACTONIONIO2

Reporting Date:

NII. 2230172024

At Nadidib, PO - Keira

Distt, Sundargarh, Odisha India.

Ground Water Level:

4.0 Mir.

Sample Description:

General Water Sample

Period of Analysis:

14/01/2024-20/01/2024

Sample Location:

Village Kenduhidi

Receipt Date:

14/01/2024

0.05

(Approved By) conditioning in Partner

Fuutr

No Relaxation

Sample Collected by:

DMSPL Representative

Sampling Date:

12/01/2014 5.0 L (r. + 250m)

Sampling and Analysis Protoculi

15 3025 & APHA 23" Edition 2017

Sampling Quantity: Sampling Type:

HLO(\*\*LOG 0.002 mg/l)

Grab

Preservation:

100

14

Blacon'

Chrystellani as Cr

ler flox

Limits of 15:10500 -2012 Permissible Requirement Unit (Acceptable) limit in the Rexult Test-Mithinf schoic Parameter Absence of Limit Afternate Source No Religation 6.5 to 8.5 APHA . 4500-11" B Electrometric Method. (0.5 Car 25 PC) ш Нален \*BEO (\*\*LOQ L0 Hazen) APITA 2120 B. Visual Comparison Method Cubag 3 \*BLO (\*\*LOQ LONTU) NTU APILA, 2130 B. Nophlelemetric Method Turbidity Ajgesible Agreeable Agrecabile APHA, 2159 B. Threshold Odour Method 4 Others Agrecible Autreable DisAgreeable APHA 2160 B. Hireshold Test Method Thistic 000 200 268.20 mp/l Food Hadnest as APHA 2340 C. EDITA Toringuia Medical ñ CaCth 500 75 52,36 APHA, 1500 Ca B, EDTA mgfi Cultivate to Cu Ditrimetric Mathod 600 200 150:28 mg/l APHA 2320 B. Titrimetric Medical Alkadinity as CalCO: \* 230 1000 aug/1 76:20 APHA, 4500-CT B. Argentometric Method Chforide as CT MC No Relayment 0.05 \*BILO(\*\*LDO 0.02 ing/1) ough APHA - \$500 CN D Comileas CN 111 100 8:12 meil APHA .. 2500 Mg B; Calculation Method Magnetim I+ Mg 2000 500 ecco/1 347.00 APHA 2540 C. Gravimetria Melhody Louis Diambyoù Solidy 400 200 mail 59.26 APTIA . 4500 H. Tutte Linear Medical Schwinger at 90). 1.5 1.0 ma/t 0.59 APHA, 4306-P D. SPADNS Method Fluoride mcf 14 No Relegation 45 2.52 mgil IS 3025 (P-34) Chromotropic Method Nimate us NO: 13 No reignment 110 mgT 0.36 IS 3025 (P-65):2914(RA:2019) from as Fig. Iò. 0.2 \*BLO(\*\*LOQ 0.005 mg/) mail 1S 3025 (P-63);2014(RA-2019) ASsentition = A) 17 2.4 0.5 \*BLQ(\*\*1.13Q 8.01 mg/l) ing/f

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IS 3025 (P-65):2014(RA:2019)

15 T025 (IU-65 E 2014) RA (2019)

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## Test-Report

Samplé	No. DMSPL/GW/MOX	1/92		Report Govern	MSPL/GW/B	II, the surface
					Limits of 18:	10506 -2052
S. Na.	Parameter	Test-Method	Result		Requirement (Acceptable) Limit	Permissible limit in the Absonce of Alternate Source
20	Micrositic Complisheds	APRIA, SS(R) C Chloroform Extraction Method	*BLQ(**LOQ 0.0005 cm/l)	tright.	0.001	0.002
25	Mineral Did.	Clause ti of IS:3025(Part 39)	*BL(X**LOQ 0.7 mg/l)	mg/4	1.0	No: Relaxation
2.1	Attentic Detergenticas	Auses K of 15 13428, 15 3025 (P-68)	18(,Q(*1.0Q 0.03 mg/l)	mpt.	0.2	1/0
-33	Residual Price Chloring	18 3025 P-26, Ormo-tolaidmic Michael	*BDL(**TN, 0.15eg/1)	mp/L	-	44.
-24	Sadism ay Na	APHA. 3500 Na B. Flame Photometric Method	20.59	Tqu:	a.	~
250	Pozassiam pi K.	APHA 3500 K B, Flame Photometric Method	4.22	тил	-	#
26	Zincus (0)	IN 3025 (P-65) 2014 (RA(2019)	1.26	marF	- 5	13
77	Coppur as Cu	IS 3025 (P-05)-2014(RA:2019)	0.12	mg/l	0.05	1:3
28.	Manginese in Mn	I5 JH25 (P-65) 2014(RA/2019)	*BLQ(**LOQ 0.01 mg/l)	Ing/I	9.1	0.3
20	Cadroon as Cd	(\$ 3025 (P-65):2014(RA:2019)	*B1.6X**LOQ 0.002 mg/l)	mg/f	0.003	No Relination
30.	Landou Pb	IS 2025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/l)	mg/l	0.64	No Relaxation
31.	Selicitima as Sc	IS 3025 (P-65) 2014(RA/2019)	Color (100 to Color and 1	mg/li	0.01	No Relatation
33	Arsenic as Av	18 3023 (P-65)(2014(RA-2019)	\(\sigma_1 \text{HT \(\forall \text{L}_{4.8}\) \(\text{T \(\text{O}\text{G} \(\text{O}\t	2007	0.01	No Relaxation
33.	Macay o Hs	IS 3025 (P-63):2014(RA:2019)	*HLQ (**LOQ 0.0005 mg/)	Nilli)	0.001	No Relatation
34	Yora) Colitorni	IS 1822,1981, RA-2019.	4	MPN/100ml	100 m	letectable in into Learngle
35.	I. Coll	18-1672,1981, RA-2019	АЭнан	MPN/100mi		letocrable in my Laurephe

Note: \*BLQ-Below Limit of Quantification. \*\*LOQ-Limit of Quantification





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### Test-Report

Sample Number:

Name & Address of the Projec

DARSPL/GW/NRIMIRS

M/s Nudidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

Report No.:

DMSPL-GW/HICO/2481/003

Firemat Nac

NIL Farty Reference No.:

Reporting Date:

22/01/2024

7.8 F-01

Grinini Water Level: 4.8 Mir.

Sample Description:

Simple Cocation:

Sample Collected by:

Sampling and Analysis f'rntoent:

Preservation:

Ground Water Sample

Village Badipada DMSPL Representative

Ce Hay

15 5025 & APHA 23 of Edition 2017

Pariod of Amilysis:

14/03/2024-20/03/2024

Receipt Date:

14/01/2024 Sampling Date:

12/01/2024

Sampling Quantity:

5.0 Ltr + 25lml

Sampling Type:

Grati

					Limite at 18:10500 -2012	
S: Na:	Parameter	Test-Method	Result	Unit	(Acceptable)	Permissible fimit in the Absence of Alternate Source
T	pH (at 25%)	APITA ASSOCIU II Electrometric Method	7.42	뒤	6/5/00/8/5	No Relievation
2	Colour	APHA 2120 D. Visual Comparison Method	78LQ (**LOQ L0 Base)	Hare	3	13
-	Lurbiday	APITA, 2830 B. Northletonietric Method	*BLQ (**LOQ LD NTU)	NIU	1	5
1	100ine	APTIA, 2150 B., Direshold Odoor Mittod	Ap ceable	44	Apropable	Ayreesble
3.	Date	of HA . 2160 B. Threshold Test Method	Agreemble	èv.	Agreeable	Agreeable
6.	Tetal Hardness as:	APRA , 2340 C, EDTA Termerse Method	150.20	таб	200	600
7	Calcion as Ca	APHA, 3500 Ca B, EDYA Titrimetric Method	52.20	Hg/l	75	200
183	Alkalieity in CaCOs	APHA , 2320 B, Timmetric Method	122.30	vrtig/T	500	600
- 6	Chloride to Cl	APID, 450BCT D. Argentometric Method	KE20	mp	250	3000
100	Cymille in CN	APDA . 3500 CN 0	*HEQC**LOQ*0.02 mg/0	ngit	10.05	No. Reliquition.
П.	Magnesian as Mg	APHA , 3500 Mg B, Calculation Method	4.30	Tgm:	30	100
12	Total Dynastyed Solids	APMA , 2540 C. Omvimetric Method	570.20	mg/l	500	2000
130	Sulphing as SOs	APISA , 4500 E, Trefudimotric Method	90.40	mg/l	200	400
14.	Floreit at F	APHA, 4500-F D. SPADNS Meilod	9.52	mail	1.0	1.5
140	Nitrate at NO:	15 3025 (P-34) & hipminrops: Method	24.98	mg/l	35	No Relatestitis
16.	hos as Tig	15 3025 (P-65)(2014(RA-2019)	0.36	maß	1.0	No releasion
17.	Alaminian) = A)	IS 3025 (E-65):3014(BA-2016)	*81.(X**1.0Q 6.00 mg/l)	mg/T	0.03	10.2
18	Docum	15 3025 (P-65):3014(RA-2019)	(Egri 10.0 QO3**)Q38*	mg/l	0.5	24
39.	Chromian as Cr	15 3025 (P-65) 20/14(RA-2019)	*801,Q(**LOQ 0.902.mp/l).	ma/l	0.05	No Relaxation

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sampl	e No. DMSPL/GW/NIO	M/03		Report No:	DMSPL/GW/B	ICC1/2401/IM3
					Limits of IS:10500 -2012	
S. No.	Parameter	Test-Method	Result	tinit	Requirement (Acceptable) - Limit	Permissible limit in the Absence of Alternate Source
20.	Plimolic Coleponide	APHA, 55/00 C Charoteen Extraction Method	*BEQ**LOQ ((,0005 mg/l)	mg/t	0.001	0.002
21	Mineral Off	Clause 6 of 15:3025 (Part 39)	*BLQ(**LOQ (i.1 mg/l)	(mg/l	1.0	No: Relievation
.27	Americ Overgonty as MBAS	Amirs R of JS 1342E 18 3025 12-08)	*8EQC**LOQ 0.05 mg/l)	Tigm	0.2	1:0
13	Bendand Insc Otherine	18 3023 P-26, Octo-talaiding Method	*B0L(**DL-0.15mg/0	'mg/I	527	1961
24	Soldinel on Na	APHA: 1500 No. E. Hanne Photometric Method	16.50	:mg/T	tie.	584
-28	Potassium as K	APHA 3500 K B, Flamic Photometric Method	3.42	my/s	14-2	(see
260	Zing as Zin	IS 2023 (P-65) 2014(R-A)2019)	0.82	mlių.	5.	15
27	Cuppellar Cu	15 3025 (P-65) 2014(RA-2019)	0.22	mg/t	0.05	1.5
26	Мануанска ак Ми	DC 3028 (P-65): 2014(RA 2019)	*BLQ(**1.0Q.0.01 mg/0.	muid:	0.1	0.3
246	Cadmium as Cd.	IS 1023 (P-65)-2014(RA-2019)	*BLO(**LOQ 8.002 = µ1)	Tum	0.003	No Relination
30	Lend in Vb	15-3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/l)	P <sub>M</sub> (m	6.01	No Relaxation
31	Schmittet as Sc	15-3025 (P-65):2014(RA:2019)	*HLQ(**LOQ 9.001 mp3)	rrig/T	0.01	No Ridusidio
32	Arsense as As	15 3025 (P-65) 2014(RA-2019)	*BLQ(**LOQ 0.005.mg/l)	mg/F.	0.99	Sio Relaxation
11	Moreovy in He	(\$ 3025 (0-65)-2014(KA:2019)	*BEQ (**1:00 0:0005 mg/l)	mpñ	0.001	No Relaxation
.14	Famil Californi	18.1022,1981, RA-2019	/ 4	MEN/100ml	100 mi	noctable in any nample
3.6	E. Coli	Es 1622,1981, RA-2019	Abvert	MPN/100ml		riectable in any sumple

Note: «Tit.Q-Heiro Limit of Quantification, \*\*LOQ-Limit of Quantification



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Number:

DMSPL/GW/NIOM/04

Name & Address of the Project:

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Keira

Dett. Sumfargarh, Odisha India.

Report No.:

DMSPL/GW/IIICO/2491/004

Format No.2

7.8 [-8] NIL.

Party Reference No.: Reporting Date:

22/01/2024

Geound Water Level:

3.8 Mar.

Sample Description:

Santple Location:

Sample Collected by:

Sampling and Analysis Protocol:

Preservation:

Ground Water Sample

Village Ibirapani DMSPL Representative

18/3025 & APHA 23° Edition 2017

lee Hox

Period of Analysis:

14/11/2024/20/01/2024

Receipt Date:

Sampling Date:

14/01/2024 12/01/2024

Sampling Quantity:

5.8 f.tr + 250ml

Sampling Type:

Grade

Approved by

					Limits of 15:10500-2012	
s. No.	Parameter	Test-Method.	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
1	pittin 25°C)	APITA 4800-IP B Electrometric Method	7.90	-	8.5 to 8.5	No Relatation
20	Colour	APEA 2120 B, Visual Comparison Method	"BLQ1"*LOQ L0.Hiscor)	Hazer	5.	15
7	Earling	APHA, 2330 B, Nephlelometric Method	*8LD (**LOQ L0 NTU)	NIU	- 0	,
16	Odini	APHA, 2150 B.: Directorid Odear Method	Agricultic	- 4	Agremble	Agrosible
9-	Fauto	APHA, 1960 B. Threshold Test Method	DisAppoints		Agrosmle	Agreeable
6.	Timil Hardness as EuCOs	APHA . 2340 C. EDTA Titrimetric Method	148:20	mg/l	200	600
1	Calcium as Ca	APRA, 3500 Ca B, EUTA Termetric Method	40.20	mg/l	75	200
H.	Affailish as CaCOy	APHA 2320 B. Titrimetric Method	150.50	HgH	200	601
4	Chloride ps Cl	APHA, 4500-CV H, Argumentothe Method	#4.50	mgs	250	(00)
1.00	Crande is CN	APITA , 4500 CSr D	*BEQUEOQ 0.02 mg/ti	mg/l	0.05	No Relaurine
11	Mignesium at Mg	APRA , \$500 Mg H, Calculation Methody	16.20	1197	30	F00
II.	Total Diseason States	APITA . 2540 C, Gravunetric Method	352.30	169/1	distr	2000
F.E.	Sulphare as SOs	APHA : 4500 F. Turbidimensic Method	56.20	ingel	2.00	400
14.	Phoride at F	APHA . 4500-F D. SPADNS Method	1.20	ngl	1.0	1.5
T6.	Sittitu av NOi	IS 3025 (P-34) .Chemostropic Method	22.00	Tger	45.	No Religation
je	hou in Fe	15 3025 (8:65):2014(805:2019)	16.26	mg/l	1.11	No relacution
13.	Attaninum is: Al	IS 3025 (F-65) 2014(RA:2019)	*HLQ(**LOQ-0.005 ing/l):	Taget.	0.02	0.2
12.	Perm	35 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.91 mg/0	mult	71.5	(2.4)
100	Chromium as Cr	15 1025 (P-65):2014(RA-2019)	*BLO(**LOQ 0:002 == 1)	ling!	0.05	No Relixation

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4. The results are related to the test items only.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

## Test-Report

Sample	So., DMSPL/GW/NO	55/64		Report No.2	DMSPLÆWA	(1,122401)004
					Limits of 15:10:500 -2012	
8. No.	Parameter	East-Method	Reinlt	Unit:	Requirement (Acceptable) 1.imit	Permissible limit in the Absence of Alternate Source
29.	Placetin Compounds	APHA, SS30 C Chloroform Extraction Method	*BLQx**LOQ 6.0003 mg/t)	mpli	100.0	0.002
315	Mineral Oil	Clause 6 of 15:3925 (Part 39)	*81Q(**T,QQ 0.1 mg/l)	Tgm	1.0	No Relaxation
ZŽ.	Amuric Dicepenti as MBAS	Armes K of 15 13428, 15 3025 (P-68)	*HLQ(**LOQ-0.05 mg/l)	m <sub>m</sub> /t	63	1.0
20.	Resolute free-	18/3025 P-26, Ortho-soluldine Method	*BDL(**DT, 0.15mg/t)	mgH		=
24	Sidium an/Nit	APHA.3500 Na.B. Flume Bhiotometric Method	18.60	ng/I		=
25	Potasitom at K	APHA 3500 K II, Flame Photometric Method	15	F-5/1	++	.77
26	Zincar Va	15 3025 (1565) 2014 (RA-2014)	1,22	ngl	5.	15
31	Copper as Cir	(4.3625 (Ma3) 2614(KA 2019)	0ET2	1100/7	0.05	1.5
28	Manganese as 540	IS 3025 (P-65) 2014(RA 2019)	*BLQ(**LOQ 0.01 ==g1)	100	0.1	0.3
39.	Cadmium as Cd	15 3025 (P-65):2614(RA:2019)	*BEQ(**1.0Q 0.002 mg/0	THE T	0.003	No Referention
-36.	Loid as Ph	IS 3025 (P-65)-2014(RA-2019)	*BLQ(**LOQ 0.002 mg/l)	pig/I	0.01	No Retaxation
31.	Schemon as No	IS 3025 (P-63) 2614(RA:2019)	*BLQC**LOQ 0.001 mg/()	ing/F	10.01	No Retrustion
32	America As	(\$30254P363E30140EA-2019)	*101.00**1.00 0.005 mg %	trot/1	10.01	No Relaximo
13	Marcon in the	DS 1025 (1545) 2014(RA:2019)	*BLQ (**LOQ 0.0005 mg/l)	Cessil	0.001;	No Reference
13.	Total Coliforn	18 (A22.19R), RA-2019.	(4)	MPN/100m/	100 m	clietable in any sample
35.	1 Coli	IS 1622.1981, RA-2019	Abicat	54PN/100=1	Shall not be: d 100 ml	meetable in any Lauriple

Spac - \*BLQ-Below Limit of Quantification, \*\*LOQ- Limit of Quantification





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Plot No. 672/18, First Floor, Kisandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Number & Address of Party

DMSPL/NIOM/S/01

Mo Nadidili Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Report No.

DMSPL/S/BICO/2401/001

Format No-

5.10 F-01

Party Reference No.:

NIL

Distt. Sundargarh, Odisha India.

Sample Description:

Sampling Location Sattigue Collegated by

Incide Mine Area

DMSPL Lab Representative

Reporting Date:

25/01/2024 Receipt Date: 18/01/2024 Sampling Dide: 15/01/2024

Type of Samplings Sampling Quantity Depth of Sampling

Composite. 2.0 Kg 30 cm

Packing Status:

Temp Sealed

Sumpling & Analysis Protocol:

15:2720 & USDA

E 2.	pH (at 25 °C) Conductivity	(S 2720 (P-26,1987)		
	Cambonosc	The second secon	8.22	-
10.0	TO THE REAL PROPERTY.	45:14767-2000 RealBirmed 2006	0.32	mS cm
	Sail Teitire	UNDA Method, 1968	Silty Loam	
3/	Colin	USDA Memod, 1968	Yellowish	
5	Water holding capacity	USDA Method, 1968	22.40	- 5
61.	Halk density	1/5DA Method, 1968	1.43	amico
T	Chronite ac CI	USDA MediaL 1968	26.50	10040/E00/gpp
A.	Calcium as Ca	USDA Mithod, 1960	32.50	mg/100gm
0	Sodium as Na	USDA Methyd, 1968	30.22	mg/100im
10.	Potossinio as.K	USDA Method, 1968	62.50	Kelling
14	Organic Matter	IS:2720 (P-22, 1972)	0.48	4.
IE:	Миркеніні зе Му	USDA Memod, 1968	11.50	mig/100gm
1,5:	Available Ninoper as N	18:14694, 1990	195.40	kg/hec
14.	Available Phesphoon	ESDA, APHA-1500IN.	32.40	kg/lice
15	Zitiq ga Zit	APHA-30000, APHA-3111B	6.50	mg/100gm
16;	Manganisie in Mn	APHA-3030D, APHA-3111B.	2.50	oug-Totgen
17	Chromomen Cr.	APTOA-3000D. APHA-4111B	1.22	mg/100gm
18.	Loid us Pb	APIA-10300, APIA-31118	0.40	mg/100jm
19.	Cadmini as Cd	APRA-3000, APRA-3111B	1.25	mg/100pm
20;	Coppet in Un	APHA-3030D, APHA-3111B	3.25	mg/100gm

00 50/07 Necked B Authoristen Signatory

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Name & saldress of the Project:

DMSPL/NIOM/ST/01

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadidilli, PO - Koira

Distr. Sundargarh, Odisha India.

Report No.:

DMSPL/ST/BICO/2401/001

Format No.:

Party Reference No.: NIL

Reporting Date:

25/01/2024

Period of Analysis:

18/01/2024 to 25/01/2024

Receipt Date:

15/01/2024

Sample Description:

Stack Emission Monitoring

General Information

Sampling Location

Sample Collected by

Date of Sampling

Sampling Duration (Minutes)

Stack attached to Make of stack

Diameter of stack (m)

Instruments calibration status. Meteorological Condition

Ambient Temperature - Ta (\*C) Temperature of stack Gases - Ts (°C).

Vehicity of stock Gases (misec.) Flow rate of PM (LPM): Flow rate of Gas (LPM)

Sampling condition Pentocol used.

Mine Site

DMSPL Lab Representative

12/01/2024

40.0 Min DG 5et

M5

0.30 Meter Calibrated

Clear Sky

22.0 220.0

7.20 22.0

> 2.0 Isokinetic:

> > 15:11255

## RESULTS

Si/Nac	Test Parameters	Test Method	Results	Units	Limits as Per CPCB
L	Particulate Matter (as PM)	IS 11255 (P-1), Gravimetric Method.	38.20	mu/Nm <sup>T</sup>	75
2	Oxide of Nitrogen (as NOx)	1S 11255 (P-7)	140.20	ppm	710
A:	NNIHC	DMSPLJENV/STP/ST/TGA/01, Issue No.4 01(01/11/21	16.80	mu/Nm*	100
4.	Sulphur Diovide (as SO2)	(S. 11255 (F-2), Tarimetric Method	20.40	mg/Nm	
E dec + S	Carbon Minisside (as CO)	UMSPL/ENV/STP/ST/FGA/01, Issue No. 01/01/11/21	24.40	mg/Nm <sup>2</sup>	150

\*\*\* End of Report A

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Number:

DMSPL/NIOM/SW/01

Test-Report

DMSPL/SW/BICO/2401/001

Same of the Project:

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO) Format No.: 7.8 F-01

At Nadidih, PO - Koira Distt, Sundargarh, Odisha India, Party Reference No.: NIL

Report No.:

25/01/2024

Sample Description:

Surface Water Sample

Period of Analysis:

Reporting Date:

18/01/2024-25/01/2024

Sampling Location:

River Sample (Near Mines Upstream)

Receipt Date:

Sampling Date:

18/01/2024

Sample Collected by:

DMSPL Lab Representative

15/01/2024 c: 2.0 Lir + 250mL

Preservation: Sampling and Analysis fee Box APHA & 18, 23th Edition 2017 Sampling Quantity: 2.0 Ltr + 25 Sampling Type: Composite

Protecol:

S. No.	Parameter	Test-Method	Result	Unit
97	ph (at 25°C)	APHA, 4500-H* B Electromenic Method	7:42	
2.	Coloiir.	APHA 2120 B. Vexual Comparison Method	-22.0	Hazon
į.	Torbidity:	APHA, 2130 B, Naphletometric Method		NTU
4,	Odour	APHA, 2150 B., Threshold Test Method	Agreeable	50
5.	Total Hardress as CaCOs	APHA , 2340 C, EDTA Titrimetric Method	88-2	(crigit)
0.	Catchinicas Ca	APHA, 3500 Ca.B. EDTA Titrmetric Method	22.2	सम्म/1
-	Atkalinity (c.CCO)	APHA , 2320 B, Titrimetric Method	76.9	ang/t
8	Chloride in Cl	APRA, 4800-C1 B, Argentometric Method	44.2	Figure
0	Total Residual Chlorine	18:3025 P-26, Ortho-tolaiding Method	*NDE(**DE-0.15mg/)	mill
His.	Comile as Chr.	APITA - 4500 CN D, Burmarie Acid Method	*BDL(**DL 0.02 mg/3)	119/1
D.	Magnesamt or Mg	APHA., 3500 Mg B. Cilculation Method	5.42	intg/I
122	Total Dissilved Solids	APHA , 2540 C, Gravimetric Muthod	:258	muit
15.	Your Suspended solids	APSIA, 2540 D. Gjavinsenie Method	27,0	me/
(4)	Directivel Oxygen	APHA, 4580 O.B. followeric Method	6.0	mgl
116	*inljshi.ki	15 3025 (15/29) 2022	4:8	:mg/l
Hi;	Dimension	APHA . 4500-F-D, SPACINS Method.	0.24	mgi
17.	(W. ft.) (3.13tg = jtl. 27%.)	APHA, 5210 C / 15 3025,P-44	16,19	mg/l
18,	((0))	APHA, 5220 B. Open Reflux Method	38.20	ngi
			CONTRACT PRODUCT AND A	_





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### Test-Report

Sampte N	o:: DMSPL/NIOM/SW/01		Report No.: DMSPL/SY	V/B1CO/2401/0	
5, No.	Pacameter	Secumentar Text-Method		Unit	
19.7	Confinctivity (st 25 °C)	APHA, 2510 II. Conductivity Motor Method	0.432	im5/im	
20	Nitrate as NO <sub>3</sub>	1S 3025 (P-34) Æhremorropic Method	6.10	11(g/1	
23	Sodium at Na	APHA,3500 Na B, Flame Photometric Method	17,50	.og/l	
22.	Potissium as K	APHA 3500 K B, Flame Photometric Method	6.22	mg/l	
29.	tronus Fe	IS 3025 (P-65):2014(RA:2019)	0.42	mg/l	
24	Aluminium os:Al:	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/I	
25.	Birrun	15 3025 (P-65) 2014(RA 2019)	*FDL(**D), 0.002 mg/T)	mg/i	
26	Resassion Communias Cr.	IS 3625 (P-65)(2014(RA-2019)	*BDL(**DL 0.002 mg/l)	mg/l	
27	Ptiennilic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDLC**DL 0.0004mg(t)	mg/L	
ZIK.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL-0.1:mg/l)	mg/I	
24	#Anumic Detergents as MRAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.05 inp/l)	996/J.	
36	Zinc as Zn	IS 3025 (P-65) 2014(RA:2019)	*BDL(**DL 0.05 mip/l)	mg/l	
31	Copper as Cul	15 3025 (P-65):2014(RA/2019)	*BDE(**DE it ( mg/)	mg/l	
32	Manganese as Mn	IS 3025 (F-65):2014(RA:2019)	*BDLC**DE 0.01 mg/U	nig/I	
33.	Carlimum as Cd	IS 3025 (P-65):2014(RA:2019)	*HDL(**DL 0:002 mg/b	TVg/II	
34	Temperature	18 3025 (P-9):2023	22.3	mg/l	
35	Oil & Greate	IS 3625 (P-29)-2621	*HDL(**DL 2.0 mg/l)	mg/l	
36-	Free Annismiii	15 3025 (2-34):1988	*BDL(**DL(0.20 mg/l)	H=/1	
37	Total kijddhal Warogen	85 3025 (P+34/61988	*BDL(**DL 0.20 mg/t)	Yeg/T	
38.	Nickel	Standard Operating Procedure	*BDL(**DL 0.02 mg/b)	.mg/l	
30.	Variation	Standard Operating Procedure	*BDL(**DL, 0.02 mg/l)	mg/l	
40	Ammunical Nanogen	18/3025 (8/34): 1088	*BD(/**DL0.28 mg/l)	ng/l	
42	Total Coblum	15 1622.1981_RA-2019.	200	MPN/100h	
12	Focial Celtiform	15 1622,1981, RA-2019	160	Africation	

<sup>\*</sup>BDL-Below Descriton Limit, \*\*DL- Desection Limit

Spilling

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### Test-Report

Sample Number

Name of the Project:

DMSPL/NION/SW/02

M/s Nadidite Iron Ore Mines.

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Nample Description:

Surface Water Sample

Sampling Location:

River Sample (Neur Mines Downstream )

Sample Collected by: Preservation:

DMSPL Lab Representative Ice Box

Sampling and Analysis

Protocol:

APHA & IS, 23th Edition 2017

Report No.:

DMSPL/SW/BIC10/2401/002

Format No.: Party Reference 7.8 F-01 NIL

Reporting Date:

25/01/2024

Period of Analysis:

18/01/2024 - 25/01/2024

Receipt Date:

18/01/2024

Sampling Date: Sampling Quantity: 2.0 Ltr + 250mL

15/01/2024

Sampling Type:

Composite

Minimp

S. No.	Parameter	Test-Method	Result	Unit
t)	pH (at 25 °C)	APHA ,4500-H1 H Electrometric Method	7.48	177
2	Cilloat	APHA 2120 B. Visual Comparison Method	24.0	Harry
3.	Turbulity	APITA: 2130 B. Nephletometric Method	×1	NIL
ě,	Othur	APHA, 2150 B., Threshold Test Method	Agrocatile	-
5.	Total Hardney, as CaCO)	APHA, 2340 C, EDTA Titrimetric Method	96.1	ritg/l
di.	Calcium as Ca	APHA, 3500 Ca B, EDFA Titrimetric Method	26.2	mg/
	Alkaimmens CaCOs	APUA . 2320 H. Turimeine Method	70.2	Pages
6.	Chloride as Cl	APHA, 4500-Cl. B, Argentometric Method	42.26	mpil
W.	Fotal Residual Chloring	JS 3025 P-26, Ortho-tolaidine Method	*BDL(**DL-0.15mg/f)	mail
10)	Conndeas/Chc	APHA . 4500 CN D. Hurbituric Acid Method	*HDL(**DL 0.02 mg/l)	mgil
11	Atopicanian as Mg	APHA , 3500 Mg B, Calculation Method	5.42	mg/l
12.	Total Directived Solida	APHA , 2540 C. Graylmetric Method	248.0	mp.1
13:	Total Surpeniled solids.	APHA.2540 D. Gravimetric Method	10.0	mg/l
187	Dissulved Oxygen	APELA 4500 O.B. Judometric Method	Ci.A.	mpT
15	Sidphide	IS 3025 (P-29):2022	30,20	mail
063	Plinifide = 1	APHA _ 4506-P-D, SPADNS Method	0.40	error.
D)	Initi (Litayar.174)	APRIA: 5210 C (TN:3025.1944)	12:20	Pgm
18.	600	APHA, 5220 H. Open Reflux Method	36.42	7002

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### Test-Report

ample l	No.: DMSPL/NIOM/SW/02		Report No.: DMSPL/S	W/BICO/2401/00
S. No.	Earameter	Test-Method	Result	Unit
29.	Camillactivity (a) 25 °C)	APRA, 2510 B. Conductivity Neter Method	0.412	mS/cm
20	Nitrate as NO <sub>2</sub>	18:3025 (P-34) ,Chromotropic Method	4.40	mg/l
21	Sodian as Na	APHA 3500 Na B. Flame Photometric Method	2.20	Hg/l
77	Petationn ucK	APHA 3500 KB, Flame Photometric Method	5.62	mg/I
ZΞ	Even as Ex	15 J025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l]	mg/l
24.	Aluminium as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL-0.002 mg/!).	mg/1
25	Borne	IS 3025 (P-65):2014(RA-2019)	0.44	mu/1
20	Heravollent Cliromium in Cr.	IS 2025 (P-65)(2014(RA/2019)	**HDE(**DE.0:002 mg/f)	mg/l
27.	Рінноїс Сопроший»	APHA: SSIR C Chloroform Extraction Method	*111)(;(**1)(;;0,0004mg/t)	mg/l
28.	#Mmerai Oii	Clause 6 of IS:3025(Part 39)	*HDL(**DL(),1 mg/3)	mg/l
29.	#Animic Determines as MBAS	APHA, 5540 C MBAS Method	*BUDL(**DL 0.05 mg/l)	mg/l
20.	ZhicarZu	IS 3025 (P-65)(2014(RA:2019)	*BDL(**DL 0.05 mg/l)	mg/l
J.L	Copper in Cu	JS 3025 (P-65):2074(RA:2019)	*BDL(**DL 0.1 min)	mg/l
32.	Manganese as Mn	)\$ 3025 (P-65);2014(RA-2019)	*BDL(**DL 0.01 mg/l)	mg/l
37.	Cadmium as Cd.	IS 3025 (P-63) 2014(R-A-2019)	*ERVL(**DL 0.002 mg/l)	mg/l
14.	l'impentore	IS 3025 (P59)(2027	:248	nig/I
(5),	17H & Litonic	IS 3025 (P-39);2021	*HUL(**E)L, 2.0 mg/l).	.mg/l
36.	Free Ammonia	IS 3(25 (P-54); John	*BDL(**DL 0.20.mg/l)	ma/i
37.	Yotal kjeldhal Nitrogen	IS 3025 (P-34): 1988	*BDL(**DL 0.20 mg/l)	1910/1
HE	Nickel	Standard Operating Procedure	*BDL(**DL 0.02 mg/li	mg/i
39.	Vanustion	Stundard Operating Procedure	*BDL_**TM_0.0.2 mg/1	:mg/I
90.	Ammilical Stirogen	15 3025 (P-3-() 1988	*BDI(**DI 0.20 mg/l)	mg/1
65,	Fetal Cutifodie	IS 1622,1981, R.4-2019	300	MPN/100m
12:	Feeat Coffform	IS 1672-19XL RA-2019	180	MPN/100m

<sup>\*</sup>HDL-Below Desection Limit: \*\*DL- Detection Limit:





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Projecti

DMSPL/AA/N10/01-09

Ma Nadidih Iran Ore Mines, Under ESt. Steel Limited, (BICO)

At Nadidita PO - Korea

Distr. Sundargarh, Odisha India.

Report No.

DMSPL/AA/BIC/2402/001-009

Reporting Date: 05/03/2024

NIL

Monitoring Period:

1st Feb. 2024 to 29th Feb. 2024

Equipment Used:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

Protocol Used: Parameter Required:

Ref. No:

As per EC Letter

Customer Name: Sample Condition Nadidih from Ore Mines

oproved B

Longitude:

Guid-Clear 85° 15'33" E

Sample Description: functions Latitude OMSPI, Representative Ambient Air Quality Maniforing Near Mine Office (A1) 21"58"09" N

29.7 003

#### RESULTS

Ditty	PNI <sub>H</sub> (ag/m <sup>3</sup> ).	(mg/m²)	50: (µg/m²)	NO: (pg(m²)	CO (mg/m3)
411.402.2024	7662	453	76.2	26.4	0.65
04.02.2024	. 615:4	41.9	15,6	325	0.66
68,02.2024	723	43.8	17.4	25.6	0.04
10.02.2024	64.11	42.5	16.5	31.2	0.62
15.03.2024	70.9	43.1-	17.2	2736	0.30
16:02:2024	73.0	29.9	15.2	26.2	0.56
20.02.2024	74.2	32.0	193	24.9	0.54
23.02.2024	0.65	28.2	18.3	263	0.55
26.02.2024	73.2	37.3	18.6c	24.1	0.56

	Parameter	PM <sub>10</sub> (rig/m²)	PN12.5 (pig/m <sup>3</sup> ).	SO; ()(g/m²)	NO <sub>2</sub> (µg/m <sup>2</sup> )	(mg/m <sup>3</sup> )
Limitas		100	50 /	80	80	4.
NAAQS	Method of Analysis	18/5182 (Part - 23)	18-5182 (Part - 24)	1S 5182 (Part - 2)	15 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

Solut

""Emi of Test Report""

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample New

Name & Address of the

Summité Callégreit Hy:

Sample Description:

Project:

Locations

Latitude

DMSPE/AA/STO/10-18

Mis Nudidih from Ore Mines. Luder ESL Steel Limited, (BICO)

At Nadislib, PO - Koica

DMSPL Representative

Near Mines Gate (A2)

211-38/25 %

Diett. Sundargarb, Odisha India.

Ambient Air Quality Monitoring

Report No:

Reporting Date:

Ref. No.

Monitoring Period:

Equipment Used: Protocol Used:

Parameter Required:

Custamer Name: Sample Condition

Longitude:

DMSPL/AA/BIC/2402/010-018

05/03/2024

NIL

1" Feb. 2024 to 29" Feb. 2024 RDS & FPS with all accessories.

18-5182 & CPCB Guidelines

As per EC Letter

Nadidih Iron Ore Mines

Good/Clear. 85" 15"44" E

#### RESULTS.

Diste	(1254.cc (1025m <sup>2</sup> )	PMEs (agent)	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>3</sup> )	CO (mg/m3)
01.02.2024	664.9	475	18.8	303	0.70
04/02/2024	#2.V	13.2	19.7	29.4	0.93
105,602,2024	83.2	39.3	17.9	27.7	0.06
10.02.2024	78.9	46.4	16.3	31.5	0.83
13.02.2624	80.4	35.3	18.2	26.6	0.96
16.02.2024	82.5	464	16.6	25.5	0.91
26.02.2024	65,4	45.9	17.6	34.5	0.66
23.02.2024	72.3	44.8	393	25.6	0.63
26.02.2024	64.8	410.5	165	35.2	0.66

	Parameter	PMn (mt/m²)	(pg/m²)	SO <sub>1</sub> (ag/m <sup>2</sup> )	NO: (µg/m²)	(mg/m²)
Limitais per	-	100	60	0.0	80	-4
NAAQ5*	Method of Analysis	(Part - 23)	15 5152 (Part - 24)	IN 5182 (Part - 2)	15 5182 (Part - 6)	18 8182 (Part - 16)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Name & Address of the

Sample Collected By:

Sample Description:

firmeets.

Lowettens

Latitude-

DMSPL/AA/NIO/19-27

M/s Nathtih Iran Ore Mines, Under ESL Steel Limited, (BICO)

At Nudidih, PO - Keira

DMSPL Representative

Village - Kenduhidi (AS)

Distr. Sundargarla, Odisha India.

Ambient Air Quality Munitoring

Report No: Reporting Date! DMSPL/AA/BIC/2402/019-027 05/03/2024

NIL

Ref. Nuc

Monitoring Period:

1st Feb. 2024 to 29th Feb. 2024

Equipment Used:

RDS & FPS with all accessories

Pentocol Used:

IS-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

As per EC Letter Nadiditi Iron Ore Mines

Sample Condition

Good/Clear. 85' 16'14" E Longitude:

21" 59745" N

#### HESTILTS

Date	(1670,100,3) (1593.111	PMDs (hg/m²)	SO <sub>2</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	(mg/m3)
02.02.2024	)5.5	46.6	15.7	26.4	0.66
05.02.2024	66.2	36.4	9.1	18.4	0.53
05.02.2024	503	30.3	8.5	17.6	0.58
11/02/2024	39834	25.0	7.1	169)	0.57
14.02:2624	50.5	30.0	9.5	37.1	0.55
17.02.2024	365.5	46.6	16.7	26.4	0.66
21/02/2024	662	26.4	9.1	18.4	0.53
24,92,2024	57.3	30.3	8.6	17.8	0.55
27.02.2024	fitt2	35.4	9.7	19.7	0.83

	Parameter	βM⊨ (µg/m²)	PN325 (pg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m²)	NO <sub>2</sub> (µg/m <sup>3</sup> )	(mg/m <sup>2</sup> )
Limit as	:=:	140	60 /	00	80	.4
NAAQS*	Stethod of Analysis	IS 5182 (Fart - 23)	18 5182 (Part - 24)	18.5182 (Part - 2)	18-5182 (Pitrt - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*Emi of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Na:

Same & Address of the

Sample Collected By

Sample Description:

Project:

THEORIGING:

Lateroli-

DMSPL/AA/N10/28-36 Mrs. Nadidife Iron Ove Mines;

Umfer ESL Steel Limited, (BICO) Ar Nadistilt, PO - Koira

Distr. Sundargarh, Odisha India.

DMSPI Representative

Ambient Air Quality Monitoring

Village Badipada (A4)

21" 58"B4" N

Report So:

Reporting Date:

DMSPL/AA/BIC/2492/028-036

05/03/2024

NIL.

Rel. No. Munitoring Period: Equipment Used:

1" Feb. 2024 to 29th Feb. 2024. RDS & FPS with all accessories

IS-\$182 & CPCB Guidelines

Protocol Used:

As per EC Letter

Parameter Required: Customer Name: Sample Condition

Nadidih from Ore Mines

Longitude:

Good/Clear. 85° 18'33" E

#### RESULTS

Date	PM16. (93/00°2	PM <sub>1</sub> , (µg/m <sup>3</sup> )	SO <sub>2</sub> (jig/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>3</sup> )	(mg/m3)
02.02.2024	723	40.0	69.4	39.6	0.64
05023024	8.00	744.5	16.5	31.2	0.62
09.02.2624	70.9	43.1	19.2	27.6	0.70
11.02:2024	65.5	46.61	18.7	26.4	0.66
14.02.2624	62.2	27.4	8.1	19.4	0.53
17.02.2024	57.3	30.3	9.5	17.8	0.54
21.02.2024	64.4	29.9	7:1	16.9	0,52
24.02.2024	58.5	30.6	8.7	19.1	0.56
27,02,7974	60.0	44.5	16.5	31.2	0.62

	Parameter	PM (pg/m²)	PM <sub>2.5</sub> (pg/m <sup>2</sup> )	50; (µg/m²)	NO: (µg/m²)	(mg/m³)
Limitas	14	100	60	80	80	*
NAAQS*	Mothed of Analysis	15 5) 82 (Part - 23)	18 5182 (Part -24)	18-51X2 (Part - 2)	18-5182 (Part - 6)	15 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\* End of Test Report\*\*



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No. Name & Address of the

Project.

Sample Collected by: Sample Descriptions 20040003 t atitude

DMSPL/AA/NIO/37-45 M/s Nadidib Iron Ore Mines. Uniter ESL Steel Limited, (BICO) At Nadidib, PO - Kura

Distr. Sundargarh, Odisha India.

DMSPL Representative Ambient Air Quality Monitoring Village Jhirapani (A5) 21" 59"SE N

Report No: Reporting Date:

Ref. No. Monitoring Period Equipment Used:

Protocol Used:

Parameter Required: Customer Name: Sample Condition

Langitude:

DMSPL/AA/BIC/2402/037-045

05/03/2024 NIL

1" Feb. 2624 to 29" Feb. 2024 RDS & FPS with all accessories IS-5182 & CPCB Guidelines.

As per EC Letter Nathfili Iran Ore Mines

Good/Clear 85" LV 10" E

Date	PMin (ng/m²)	PNE20. (100/m <sup>2</sup> ):	SOs (µg/m²)	NO <sub>2</sub> (jig/m <sup>3</sup> )	CO (mg/m3)
63.82.2024	58.3	42.0	18.7	23.8	0.63
06.02.2024	62.2	45.3	17.3	24.4	0.65
10.02.2024	65.4	4459	15.6	33.5	0.62
12.02.2024	72.9	4(i.i)	17.4	(25.6)	0.60
15.82.2024	61.0	46.5	16.5	312	0.63
18:02:2024	70,9	047.4	78.6	28.6	0.70
22.02.2024	65.5	46.6	16.7	29.4	0.66
25.02.2024	: 637.01	44/4	12.7	26.6	0.65
28.02.2024	63.3	23.4	7.5	19.1	0.57

	Parameter	[mg/m <sup>2</sup> ]	PM <sub>2,1</sub> (µg/m <sup>2</sup> )	SO: (µg/m²)	NO; (µg/m²)	(mg/m²)
Limitas	44	100	60	80	80	4
MAAQS*	Method of Analysis	18 5182 (Part - 23)	18 5182 (Part - 24)	18 5182 (Part - 2)	18 5182 (Part - 6)	(15.5182 (1915 - 10)

National Ambient Air Quality Standards

""End of Lest Report."

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4. The results are related to the test items only.



Note: -



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Not

Same & Address of the

throjecti.

DMSPL/AA/NIO/46-54 Mix Nadidili tron Ore Mines.

Under E51, Steel Limited, (IIICO) Ar Nadidili, PO - Koira

Distr. Sundargach, Odisha Imlia.

Report No: Reporting Date:

Rel. No:

DMSPL/AA/BIC/2402/046-054

05/03/2024

NIL

Monitoring Period:

Equipment Used:

1" Feb. 2024 to 29" Feb. 2024 RDS & FPS with all accessories

15.5182 & CPCB Guidelines

Protocol Uved:

As per EC Letter Parameter Required:

Circtomer Name:

Nadidili Iron Ore Mines

Sample Condition Longituite:

Good/Clear 85" 15"20" E

Sample Collected the Sample Description.

Location: Luxitude:

Ambient Air Quality Monitoring Village Kashira (Afr) 21" 55"10" N

DMSPL Representative

#### RESULTS

Datie	P36sc (Mg/m <sup>2</sup> )	PM <sub>2.5</sub> (µg/m <sup>2</sup> )	(90s (pg/m <sup>3</sup> )	NO <sub>2</sub> (pg/m <sup>3</sup> )	(mg/m3)
03.02.2074	64.4	28.9	9.1	16.9	0,58
06.01.2024	16.5	30.6	8.7	17,1	0.56.
10.02.2024	-37.5	29.6	931	18.4	9558
12.02.2024	1460.3	23.4	7.5	17.1	0.57
15,02,2024	55.4	28,4	7.7	183	0.53
18.92.2924	57.5	30.6	8.3	17.1	0.55
23.02.2024	58.3	25.4	9.6	18.4	0.54
25.02.2024	60.1	23.4	6.3	183	9.56
28.02.7024	61.8	44.5	15.2	31.2	0.62

	Parameter	PM10 (145/10 <sup>2</sup> )	PMrs (pa/m³)	SO <sub>2</sub> (ug/m <sup>2</sup> )	NO2 (mg/m <sup>2</sup> )	CO (mg/m²)
Limitas		/ 600	60	110	40.	4
NAAQS*	Stethod of Analysis	(8:5182 (Part - 23)	15 5182 (Part - 24)	(Part - 2)	18-5182 (Part - 6)	1S 5182 (Part - 10)

National Ambient Air Quality Standards.

"End of Test Report"

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m 0100/10/01 a





Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Stat

Samir & Address of the

Sample Caffested By:

Sample Descriptions

Projecta

Location:

Latinule:

DSISPLIAA/NIOM/01

Alla Nadidih Iran Gee Mines. Unifor ESI Steel Limited, (BICO)

At Nathiffit, PO - Keira

DMSPL Representative

Near Mine Office (A1)

Distt. Sundargarti, Odisha Imfia.

Ambient Air Quality Monitoring

Report No: Reporting there:

Ref. No:

DMSFL/AAM/BICO/2402/001

05/03/2024

NIE

Munituring Period: February 2024

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

15-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Good/Clear

21" 58'09" N

Longitude

Sample Condition 85" 15"33" E.

#### HESULTS.

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenie	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m²)	(rg/m²)	(ng/m <sup>3</sup> )	(mg/m3)	(µg/m²)	(ng/m3)
01.02.2024	26.10	36.2	<0.05	2000	k0.50	<5.0	<1.0

	Parameter	Ozone (µg/m²)	Ammonia (µg/m³)	1.cnd (µg/m²)	Nickel (ng/m²)	Acsenie (ng/m3)	Benzene (µg/m³)	Benzn(a)pyrine (ng/m3)
Limit as per NAAQS*	=	180	400	ř.	20	6.	5	ī
	Method of Analysis	IS 5182 (Part - 9)	15 5182 (Part - 25)	18 5182 (Part – 22)	18 5182 (Part - 26)	As per CPCB By AAS	1S 51K2 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Simple No.

Name & Faldress of the

Ponject:

DMSPL/AA/NIOM/02

Mrs. Nadidith from Ore Mines.

Under USL Steel Limited, (BICO) At Sadisfile, PO - Keira

Distr. Sundargarh, Odisha Imlia.

Reporting Date: Ref. No:

Report No:

Monitoring Period:

NIL February 2024

Equipment Used: Protocol Used:

RDS & FPS with all accessories

DMSPL/AAM/BICO/2402/002

IS-5182 & CPCB Guidelines

Sinwiple-Collineral fire:

Sample Description:

Lucations Latitude DMSPL Representative.

Ambient Air Quality Munitoring

Near Mines Gate (A2)

21158723T N

Parameter Required:

Customer Name:

Sample Condition Longitude:

As per EC Letter Nadidih Iron Ore Mines

Good/Clear

05/03/2024

85" 15"44" E

RESULTS

Date of Sample	(France)	Antmonta: (ag/m2)	best ('m/m')	Nickel (ng(m²)	Arsunio (ng/m3)	Henzene (µg/m²)	Benzo(a)pyrine (ng/m3)
05.02.2024	.27.40	3320	<0.05	<0.05	<0.50	<5.0	<1.0

	Parameter:	Ozune (ng/m²)	Ammonia (µg/m²)	Lead (µg/m³)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrine (ug/m3)
Tamicas per		180	400	1	20	6	5	1
NAAQ\$*	Method of Analysis	(S 5182 (Part – 9)	18 5182 (Part - 25)	18 5182 (Part - 22)	18 5182 (Part – 26)	As per CPCB By AAS	IS 5182 (Part - [1)	IS 5182 (Part – 12)

National Ambient Air Quality Standards.

"\*End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No.

Same & Address of the

Project.

DSISPLAANIOMA

Mis Nadidili Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Namidib, PO - Knira

Diet. Sundargarb, Odiska India.

Report No:

Reporting Date:

DMSPL/AAM/BICO/2402/063 05/03/2024

NIL

Ref. No:

Manituring Period:

February 2024

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

15-5182 & CPCB Guidelines

Sample Cultocted By: Sample Description:

Lorinition: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring Village - Kemtuhuti (A3)

21" 59"45" N

Parameter Required:

Customer Name: Sample Condition As per EC Letter Nadidih Iron Ore Mines

Good Clear

Lungitude:

85° 16'14" E

#### RESULTS

Date of Sample	Oznie	Ammonia	Lent	Nickel	Arsenic	Henzene	Benzo(a)pyrini
	(ng/m²)	(ng/m²)	(µg/m²)	(ng/m³)	(ng/m3)	(µg/m <sup>3</sup> )	(ug/m3)
14.02.2024	24.10	38.20	<0.05	< 0.05	<0.50	<5.0	<1.0

	Parameter:	Oxone (og/m²)	Acomonia - (ug/m²)	Lead (upim <sup>3</sup> )	(ng/m²)	Arsenic (ng/m3)	Beneene (µg/m²)	Benzo(a)pyrine (ng/m3)
Limitas	·	180	400	3	20	6	S	T.
NAAQS*	Method of Analysis	(8.5162 (Part - 9)	(S 5182 (Part - 25)	IS 5182 (Part - 22)	18 5182 (Part - 26)	As per CPCB By AAS	18-5182 (Part = 11)	1S 5182 (Part – 12)

National Ambient Air Quality Standards.

\*\*Eind of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 1SO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Sunny & Address of the

Parties !

DMSPL/AA/NIOM/4

Mrs. Nadidih Iron Ore Mines. Under USL Steel Limited, (BICC)

At Nadidita PO - Koira

Distr. Sundargach, Odistor India.

Report No: Reporting Date: DMSPL/A/AM/BICCE/2402/004

05/03/2024

Ref. No:

NIL

Ministering Period:

Equipment Used:

February 2024 RDS & FPS with all accessories

Protocol Used:

IS-\$182 & CPCB Guidelines

Sample Coffeered fly: Sample Description:

Location! 1 militable:

DAISPL Representative

Ambient Air Quality Munitoring

Village fladigada (A4)

21/158/04TIN

Parameter Required: Customer Name!

Sample Condition kongitude:

As per EC Letter Nutidih Iran Ore Mines

Good/Clear

85° 18'33" L

#### RESULTS

Date of Sample	Oznar	Ammoniii	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrini
	(pg/m²)	(pg/m²)	(ug/ur)	(ng/m²)	(ng/m3)	(µg/m <sup>3</sup> )	(ng/m3)
19.02:2024	26.30	37.50	<0.05	+0.05	<0.50	<5.0	<1.0

	Barameter	Ozone (pg/m²)	Ammunia (pg/m²)	Lend (apm*)	Nickel (ng/m²)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrine (ng/m3)
Lindras	¥	180	400	1	20	6	3	210
SAVOS.	Method of Analysis	183181 (Priet = 9)	18 5181 (Part - 25)	(S.5187 (Fact - 22)	18 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 1.1)	15 5182 (Part - 12)

National Ambient Air Quality Standards.

"End of Yest Report"





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  - 4. The results are related to the test items only:



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Pruject:

DMSPL/AA/NIOM/5

Mrs Nadidills from Ore Mines. Unifer ESL Steel Limited, (BICO)

At Nadidih, PO - Kolea

Diett. Sundargark, Odisha India.

Report No:

Ref. Not

DMSPL/XAM/BICO/2402/003

05/03/2024 Reporting Date:

NII.

Monitoring Period:

February 2024

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required: Customer Name:

As per EC Letter

Sample Condition

Nadidili Iron Ore Mines Good Clear

Longitude:

85" 13"10" E

Sample Collected By: Sample Description:

Locations Latitudes

DMSPL Representative Ambient Air Quality Monitoring

Village Jhirapani (A5)

211 59 58 %

RESULTS

Date of Sample	Channe (pg/m²)	(pg/m²)	Lend (pg/m²)	Nickel (ng/m²)	Aesenic (ng/m3)	Benzene ()(g/m³)	Benzo(a)pyrina (mg/m3)
13.02.2024	23.40	35.20	+0.05	10.05	<0.50	<5.0	<1.0

	Parameter	Ozome (µg/m²)	Ammonia (µg/m²)	Lend (µg/m²)	Nickel (mg/m²)	Arsenie (mg/m3)	Benzene (µg/m²)	Henro(a)pyrine (ng/m5)
Limitas		180	400	17	20	(6)	5	3.
per NAAQS*	Method of Analysis	IS 5182 (Part -9)	15 5182 (Part - 25)	18 5182 (Part – 22)	15 5182 (Part – 26)	As per CPCB By AAS	18 5182 (Part - 11)	1S 5182 (Part - 12)

National Ambient Air Quality Standards.

"End of Test Report"

Note: -

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3. Sample Will be destroyed after one week from the date of issue of test certificate.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No.

Name & Address of the

Sample Collected By:

Sample Description:

Project:

DMSPL/AA/NIOMW

Mrs. Nudidin Iron Ore Mines,

Uniter ESL Steel Limited, (BICO)

At Sudolih, PO - Keira

DMSPL Representative

Distr. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No:

DMSPL/AAM/BICO/2402/006 05/03/2024

Reporting Date: Ref. No:

NIL

Monitoring Period:

February 2024

Equipment Used:

RDS & FPS with all accessories:

Protocol Used:

15-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Sample Condition Longitude:

Good/Clear 85° 15'26" E.

Locations Latitudes

Village Kashira (A6). 24" 55'10" N

RESULTS

Date of Sample	Ozone	Ammonia	Lead:	Nichel	Axsenic	Henzene	Benza(a)pyrina
	(µg/m²)	(jig/m²)	(µg/m²)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
28.02,2024	2450	311,40	+0.05	<0.05	<0.50	<5.0	<1.0

	Parameter	(jig/m²)	Ammonia (µg/m²)	Lead. (pg/m²)	Nickel (ng/m²)	Arsenic (og/in3)	Benzene (µg/m²)	Benzo(a)pyrine (ng/m3)
Limitas	*	189	400	i	20	6	5	î
Her NAAQ5*	Method of Analysis	18 5182 (Part - 9)	18:5182 (Part - 25)	18 5182 (Part - 22)	18 5182 (Part - 26)	As per CPCB By AAS	18 5182 (Part - 11)	15 5182 (Part - 12)

National Ambient Air Quality Standards.

Embat Test Report

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### Test-Report

Sample No:

Same & Address of the

Project

DMSPL AAFS/NIOM/01

Mrs. Nadidith Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Natlidib, PO - Koira

Distr. Sundargarh, Odisha India.

Report No: Reporting Date:

DMSPL/AAFS/BICO/2402/1-6

05/03/2024

Ref. No:

NIL

Monitoring Period: Equipment Used:

1" Feb. 2024 to 29th Feb. 2024 RDS with all accessories

Protucul Used:

18-5182

Sample Calberted Rec.

Sample Description Sample Type ..

DMSPL Representative

Ambieut Air Quality Manitoring

Free Silica Compunition

Parameter Required:

As per TOR Letter

RESULTS

### Chemical Composition of PM 10 with Free Silica

Location	Date	(ME/M <sub>2</sub> )	Free Silica	Ca (pg/m²)	Ng (jig/m²)	Ni (rig/m²)	Ph (µg/m³)
Near Mine Office	02.02.2024	()(=2	2.10	1.15	0.20	<0.5	0.08
Near Mines Gaire	10,02,2024	69.8	1.80	1,20	0.25	< 0.5	0.08
Village Kenduhidi	14:02:2024	62.4	2,10	1.20	0.28	<0.5	0.07
Village Damdipuda	19.02.2024	58.3	2.20	1,18	6,24	<#.5	0.07
-Village -thicagoni	24:02:2024	68.6	2.30	1.15	0.20	<0.5	0.08
Village Kathira	29.02.2024	- 58.8	1.90	1.20	0.25	<0.5	0.09

\*\*End of Report\*\*

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o Solo



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Somplif Not:

Name & Address of the

Project:

DMSPL/FD/NIOM/01-08

Mrs. Nadistih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nodidili, PO - Koira

Dixt. Sumbargarh, Odisha India.

Report No:

Reporting Date:

Ref. Na: Munitoring Period:

Equipment Used:

Protocol Used:

Parameter. Heguired

Customer Name: Sample Condition

As per EC Letter Nadidily Iron Ore Mines

NIL.

Good/Clear.

05/03/2024

DNISPL/FD/BICO/2402/001-006

1º Feb. 2024 to 29º Feb. 2024

15-5182 & CPCB Guidelines

RDS & Personnel Dust Sampler.

Sample Culterred By:

Sample Description:

Sample Name:

Ambient Air Monitoring Fugitive Dust Sample

DMSPL Representative

RESULTS.

Sq: 500	Lecation	Date	Latitude:	Longitude:	SPM (ag/m²)
1	Mine Henches Area	04.02.2024	21" 58"10" N	85° 15°16" E	915.40
2	Hairt Road	68,02.2024	21°58°16" N	85" 15"26" E	940.00
7	Crushing Plant	12,02.2024	21" 58'24" N	85° 15'33" E	952.80
.4	Servening Plant	18.02.2024	21° 58°30" N	85" 15"40" E	104020
5	Ore Londing Area	24,02,2024	21" 58"28" N	85° 15°10" E	1028.60
fe:	Waste Drings Area	28.02.2024	21" 58'30" N	85° 15'42" E	960.90

Limit as per	Parameter	Suspended Particulate Matter (SPM 1200 µg/m²)
4201390144		

State Pollution Control Board, Odisha .

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### Test-Report

Sample Sumfree:

DAISPLEW/STOMAR

Bapark Nace:

DMSPLEGW/BICG/2402/001

Come & Addresont the

Mrs. Nudictife from Ore Mines.

Format Sac

7.N.E-01

Project

Under ESL Steel Limited, (BICO)

Party Reference No.:

SIL

At Nadidill, PO - Knita

Reporting Date:

18/02/2024

Distt. Sundargarh, Odisha India.

18 3025 & APAIA 23° Edition 2017

Grand Water Level

4.1.35115

Namijie Description:

Groteid Water Sample

Period of Analysis:

12/02/2024-13002/2024

Sample Listarilist:

Near Mine Site

Receipt Date: Sampling Date: 12/02/2024 10092/2024

Numple Unliketed for:

Freservation:

DNISPI, Representative

Sampling Quantity:

4.0 1.1v - 250ml

Sumpling and Amsteria Pentsol:

tee Box

Sampling Type:

tirah

2.7.251	CHARINE	100,000	SHITTING ZAIR		111 2011	
						10500 -2012
S. Nic.	Parameter	Test-Method	Result	Unit	(Acceptable) Limit	Permissible limit in the Absence of Alternate Source
	MERCHAN	ARIA AND INVESTMENT States	5.01	14	6.5 to 8.5	No Relevation
	K >0000	APRIA 2120 B. Votal Companies Method	THE CLYTT CHO LOT THERED:	History	3/	-15
1	Details	APHA, 2130 II, Nephiciemetric Method	*BLQ(**LOQ 3.0 N33/)	NE	7	- 5
16.7	Ohiii:	APRIA/2199 B., Threshold Odder Method	Agreeable		Agrecubio	Agreeable :
8	Letty	APHA 2160 B. Theishold Jost Method	Disagrecable	11	Amounte	Agremble
fs.	Conf Harderin in	APHA: ZHD.C. TOTA Thringhic Method	162.26	me/r	200	600
	Colcins ev Co.	APITA, 3500 Car B; EDTA Tunmanne Method	52.20	mg/l	75	200
K	Alfashing as Cacco	CAPITA (2330 IU Thirlings); Method	122,30	mg/T	. 200	000
9	(Throte at Li	APTES, 45HE-LY B. Argumonous Medical	802,30	mg/T	231	1000
411.	Contactor UN	APRA 4500 CN D	*3850(**6007682 ===0)	mg/t	0.05	No References
137	Magazinim ac Mg	APHA J350 Mg ts, Calculation Method y	TAIL	1947.	30	App.
Y2	Total Diswhyd Stide	APHA . 2540 C. Frey metter Method.	100.50	Hg/I	.500	3006
17.	Submitted 201	: A393A : 4500 E. Yorbidinserric Method	30.20	Type:	200:	400
(1)	Trumburt	APTIA J 4990-11-D, SPADNS Method	0.44	mg/T	1.0	13
150	50mm/cji 800	IS 1023 (P.34) / Immultiopių Method	2650	Heitti	15	No Retaxation
H	Friman, Eq.	B. 1025 (P-85) [BITHEA (1019)]	0.26	He/T	10	No refusation
13.	Abolifilia of M.	(\$7.025 \P5655-2014(BA-2019)	*BLO(**1730 0.005 mg/l)	Wig/Ti	:0:00	:0.2
18,	Horna	15 3025 (P=65):2014(RA-2014)	*81.0c**1.0Q-0.01 wpi1)	mpf	0.5	24
100	Cheriden e Cr	15-3025 (II-65):2014(II.A:2019)	*BLCC**LDQ-0.002 mg/h	Hott.	26.0	Nu Relaxation



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### Test-Report

	- massivin zin	2011		Report No.	DAISPLIGWIE	HC13/2402/001
					Limits of IS:	10500 -2012
×. ×	Parameter	Yest-Method	Résult	Unit	Requirement (Ageoptable) Limit	Permissible limit in the Absence of Absenute Source
	Phonday Composition	: APOA, 553R C Chlerobran Extraction Aterioid	*BLO(**LESC B1805 (m/s))	mpi	0.001	0.002
24	3finesii DE	Change out is 3025(Part 39)	*8LOC*LOQ ((+mg5)	ngil	1:0.	Melasanos
33	Ammire Delegations in MIGOS	Amaz K of 15 13428, 18 3028 (19-68)	*BLQ(**1.00.0.05 mg/l)	ties!	62	1.0
DC.	Residual free Chianne	IS 3925 P-26. Onto totaling Method	*BDL(**DL 0.15mg5)	2031/5	. 12	12
AC.	Socialities for	AFSIA 3500 Na fi Flame Physiosocisc Mathind	20,50	Fign		μ
=V	Personna A.	APRA TODO K. H. Flame Proministric Mediad	6.32	mgfl	122	-
Zh.	7)(= a5 /o	05 3025 (8-65) 2014(BA-2019)	0.36	समृति	.5	35
25	Copper on Co	15 3035 (P-65) 2014(RA/2019)	6.12	mg/f	0.05	3.5
25.	Manganesicai No.	2S 3025 (P-65):201@RA:2019)	*BLQ(**LOO 0.01 mg3)	Physis.	0.0	0.3
8.	Epidemiero Cal	IN 2025 (P-65) 2014(RA 2019)	*BLQ#*LUQ-0.012*iio-0	£ <u>ii</u> m	.0003	No Relaisation
-1	Easter Th.	(\$130254E-63):2014(#A.2019):	*BLQc**LOQ 1002 mg/H	mg/I	10,0	No Relaxation
T.	Silailiina Se	(S-1925 (P-65) 2644 RA-2010)	*/HEQ(**LOQ 0001###)	vig/I	0.01	No Religiono
72.	Arrent in As-	15 7025 (P-65):2014(RA-2019)	fill (x**1.010-0.003-ma1)	mpT	0.88	No Haliconia
33.	Mining state	IS 3925 (P-65) 2014(RA:2019)	*HLQ (**LOQ 0.0065 vig-1)	mg/I	100.0	No Relatation
=1	Toursolilles	15-1627,1981, RA-2019	4	SIPN/100ml	Smill am he de 100 est	
73.	( 64)	16 (622-166), RAZBIO	A5-iiii	Attrovations	Shall on by de 100 ml	tectible in my

Source "REQ state— Error of Quantification, ""LOQ- Limit of Quantification

To hope of the second of the s

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Sample Vainbers

DMSPL/GW/NIOMIR

Test-Report Report Your

DMSPL/GW/IIICO/2402/002

Name & Address of the Project:

Mrs. Nadidih Iron Ore Mines.

Formut Noc. Party Reference Nici NIL

7.8 F-01

Under ESL Steel Limited, (BICO) At Nadidin, PO - Kora

Reporting Date:

18/82/2024

Disti, Sundargath, Odiska India.

Ground Water Level : 4.0 Mir.

Sample Description:

Genood Water Sample

Period #EAmilyais:

12/02/2024-18/02/2024

Sangle Location

Village Kemfuhidi

Receipt Date:

12/02/2024

Savople Collected by:

DVISPI, Representative

Sampling Bate: Sampling Unintily: 10/02/2024 5.0 Tar + 250ml

Sampling and Analysis Protocoli-

IS 3025 & APRA 23º Tolinion 2017

Gridi

Personalism.

lex Hos

Sampling Type:

Limits of 15:10500 -2012 Requirement Permissible-Chit Struit Lesi Methnil limit in the 5. 3m. Parameter: (Acceptable) Absence of Limit Alternate Source 6.5 (4) 8.5 No Retreation pH (m.25 T.) APIJA 4500-11 H. Geensmanne Metood 15 \*HEQ (\*\*\*LOQ TO Histori) Hateri 5 Colon APITA 2120 B. Visual Comparison Method \*BLO (\*\*LOU LONTE) NIL APTEA, 2330 H. Nophleiometric Method Agrecible Agreemble APLIA 314011 Threshold Odeur Mithod Agrocable. Ŧ Livs/Apromble APLIA / 2100 D. Directont Less Method 200 600 foul l'anien e 29 at 201 mg/t 0.01 APLIA . 2380 C. ERYDA Fluimente Melliott Lacros. 32.3H APILA: 5500 Last, EUTA TS 200 mell Calcium to Cit. Divinistric Method 300 noo APSIA , 2330 B. Thrimitric Method D8.28 Hall 256 \$1000 76.29 APILA, 4500-CF B. Argemometric Method. map() v Chlinias ar CT \*BEO(\*\*E00 0:02 Hig/0 missi t 0.03 No Rehoodien 3551 A. 4301 CM D 100 APELA: 35ml Styrk: Calcolubin Methol: BHJIT 2000 visa I APHA: 25th C. Covenierre Method 147.25 400 APE(A, 4500 f. Terbilimetric Mellod 50.70 HH2T 200 Supplier at Mile 13 Florida ac F APTIA: 4500-F-D, SPADINS Method 11.14 mal! 19. 45 Na Rehimilion (C.1838 (P.34) Chromotopic Method 2.45 ring/ Nimbootim B-Zh mi/1 1.17 IS THE READ SHIRK A 2011 OF the bond out to and MARC! IS BUSINESS TO STRUCT 24 CERTAIN TO CHARACTERS OF HER mpst n.5 IS 3024 H583520140KA(2019) Min-0.05 No Relaxation THE COURSE COLUMN TO A THE 'nκ Chromount at La IN 1025 (PAID CHURCHAS BHA)



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### Test-Report

5-110-	2" DREATH AD	X8/41Z		Report No.:	DARRENGWE	BCO/2402/002
					Limits of IS:	10500-2012
S-3a	Pacameter	Test-Method	Hesuft.	Unit	Requirement (Acceptable) Limit	Permissible finit in the Absence of Alternate Source
211	Hamilton Company	APHA, SSERI E Chloridomi Extraction.  Medical	ARTOGATOGATINGS #101	rigin	10000	0.000
žΙ	Minus (4)	Chaine 6 of IS-30/25[Part.39]:	ARTOCATOO ELIMBI	1,000	1:0	No. Retraine
-37	Amenic Didogallis as 98 aX	Abitos K-irl 15.13428-15/3075 17-683	*BLQ(**LDQ 0.05 mg/l)	Pare	0.2:	139
7.81	Residual West Chindrag	18 3025 P-26. Oemo-robiliting Metrodi	280t(2*0t.0.150a)()	Here Fill	-	54.7
774	Salmman Sa.	APHA 2500 Na R. Flame Philipping Method	30,50	mpt	H	34.
735	Резиненти в	APRIA 1500 K.B. Finne Photostectic Method	4.22	mg9 .	4	- Ter-
216	75ms at 201	IS 3028 (P-631/2014(RA/2019)	6,50	mp?		.15
31	Copper at Co	18 3025 (PAS) 2014(RA:2019)	-8:13	hight	0.125	1.5
216	Mingrisod at Mit	18:3023 (P-65):2014(RA:2019)	"BLOC**LOQ-8.01 mp/1)	: mg/3	0.1	11.3
29	Calminium Cd	18.3025 (1565):3914(RA:2019)	ANY ON ALL TOO BOOK HAIRS	1001	0.003	No Melinemine
lii.	Emfp.16	15 3025 (P-85) 2014(RA 2019)	*III.Q(**LOQ 0.062 :=;(i)	HUFT	0.01	No Religions
- 11	School of Sci	18 5025 (F65) 2014(8A:2019)	481 OLATON CONTACTOR	mel.	0.01	So Relaution
13	American Av.	IS RESURANCED WHAT A SHIPE.	ZHEQ0200000000000000000000000000000000000	1197	/#/@X	So Behavelin
101	Минители	18/1025165651:2014(RA/2019)	*88.Q2**1.QQ (10005 mg/1)	trait.	0.001	No Relaxation
14	South Collinson	05/1623,[983_ILA-2019	42	MPS/100ml	189,mf	rizetable in any sample
15.	EU-ESAH	15 1n22 (501 - TA-2n19	Altimot	MP5(1990)		to table in any sample

See 199 (2012) James Conseption (1990) Line of Democratic





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#### Test-Report

Sangle Nuither:

Same & Athleso of the Project

DAISPLOGWENHOADED

M/s: Natidili Iroit Ore Mines;

Under EST Steel Limited, (BICC)

At Nothtill, PO - Roira

Distr. Sundargarh, Odelia India.

Report No.

DMSPL/GW/BRC0/2402/063

Format Nic. 7.8.E-01

Party Reference No.: NIL Reporting Date: 18/02/2024

Grunnil Water Level: 4,4 Mrs.

Sangle Description:

Grunnit Water Sample

Period of Analysis:

12/02/2024-19/02/2024

Sample Locations Samule Culterted by: Village Badipada

Receipt Date: Sampling Date: 12/02/20134

Sampling and Analysis

DMSPL Representative 25 3025 & 31'11 A 23" Edition 2017

Sampling Quantity:

10/02/2024 5.0 J.tr = 250ml

Promisor.

lex li Presentation

Grah

۱	\$1(%)	paniching	STREET	10

					Limits of 15:10500 -2012		
S. No.	Parameter	Test-Method	Result	Unit	Requirement 1 (Acceptable) Limit	Permissible fiorit in the Absence of Alternate Source	
À	plan May	APRA JUST IN Progressive Method	7.61	177	651683	No Relaxation	
	East Control of the C	APRIA 2120 B, Visual Companies Mathed	*BEO(**LDO L#)bass)	Hus-	5	15	
Х	Torridle	APHA, J130 H. Nephiclometric, Melbod	MILQ (**LOQ LO NTU):	NTH		350	
3	Orioni	APITA 2138 W. Threshold Odour Meriod	Agrecobin	100	Agrecable	Agreeable	
3.	Title	APITA 2166 B. Theshold Teit Method	Agremble	řř	Agticustilic	Agremblic	
	Total Apparess on Larrie	APITA , 2740 C. EDTA Entiretric Method	1.59.20	mgI	200	000	
	(Mounts Cir.	APITA 2800 Ctd. II, EDTA Tittilisative Method	52.20	mpt	28.	200	
8	All Strony as 3 at 20th	APITA 2320 B. Farancine Method	122.50	mid	2011	600	
8	Chlussin at Cl	APSTA, 4500-01 D. Argentumetric Mediod	12:29	Tum	250	10000	
111	Upanlike in US	APAIA JESSO CN/ D	*BI(0(**1.00 ti 62 mg/1)	Pigo	0.05	No Retrodisti	
337	Magraman - Mg	APITA , 3509 Atp B. Coculation Mep-d.	5.50	mp1	70	100	
12.	Your Histories Childs	APSA , 2540 C. Gray Warrig McBod.	370.20	mgt	500	2000	
A.S.	SHRWC (#50)	APIA - 4300 to Eurishmetric Method	94,40	Pam	200	800	
97	Finerals or I	APPLA ARREST DE SPATRES Method	0.63	mgs#-	1:0-	1.5	
17.	Numero-NO.	75 (0.25 (P. St) A Tromotopic Method	22.5%	ma/f	15	No Refresión	
H	tronun ke	TS 2025 (P-65)(2014(RA:2019)	(6.56	mpT	1.0	Nestigation	
rit.	Alionini m.M	IS-3025 (P.405) (2014) (RA:2019)	*BicQ(**1.0Q 0.003 ing/I]	mgT	0.03	0.2	
75.	flore	45 3025 (P-63) 2014(RA-2019)	*BLQ(**LOQ 0.01 mg/l)	mert	0.5	2.4	
TIC	Chinatan at CP	15 3025 (P-65)(2014)(BA-2010)	*BLO(**COO 0.002 mg/l)	mind.	-0.05	No Relaxation	

of a root to be reproduced entirely or in part and cannot be used as evidence in the court of law This regard exclud not be used in any advertising media without our special permission in writing. Sample will be destroyed after one week from the date of issue of test certificate. the results are related to the test items only.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) 15O-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Simp	I/ No. DXISPL/GW/SBC	NU03 Test-R	Tiogs	Report No.	DMSPL/GW/I	ITCO/2402/003
					Limits of IS.	10500-2012
St.	Parameter	Fest-Method	Result.	Unit	Requirement (Acceptable) Linux	Permissible limit in the Absence of Alternate Source
1107.	Phenolic Competition	APRA, \$539 C Chieroform Extruction Method	*HLQ(**LOQ 0.0005 mg l)	ziji1	£0.001	0.002
711	Mineral City	Classe 6 of 15:3025[Part 39] *8LQ(**LOQ 0.7 mpt)		mu/4	1.0	Nebination
0.00	Among Daniegos-in Strass	Amery K. of D. 13428, 18 3025 (P-fdf)	*III.Q0**LOQ 003 mg/li	inget.	162	1.0
	Fembruary (Street	15 (8025 F) 26; Etrino-tollarium Method.	*HDL(**DL(L):5mp3)	7997	HE	_
51.	Soldini go Nje	AND TOO NATE FLAME	16.50	high	Pf	+
28	Potosciencia IC	APEA 2500 K II. Flame Financiase Method	3.44	mg/l		++
34.	Zini pi //w	15 TH23.4TH-05-12014/ERA-20150	0.64	100/1	- 3	3.5
717	5.00987.00 CH	OS 2025 (P. 65) 201/00A (2019)	0.27	Fight:	0.05	1.5
16	One of the	D. 1025 (1665) 2014 (IA-2019)	*88,Qc**1.0Q.0.0( mp4)	hg/l	0;1	93
29	Calmini ti Cil	(5.1625 (P.65) 2014(R.6.2019)	*HLQ(**LOQ 0.002:ng/0	Tight	:0.00E	No Heliavation
71	Color Pt	ES 2025 (1563):2014(RA:2019)	*BLQx**L0Q-0.002 mg/()	mpi	5,81	No Relaxation
11	Schmitm ist So.	IS 1025 (F-65) 20140RA:2019)	*HEQ(**LOQ 0.001 Hg/3	Jugit.	0.01	No Religioni
11	Arsen, et An	18 2025 (P-05);2014(MA-2019)	SHLORESLOO BLORE WILD	auth)	601	No Retainme
TI	Minus mile	IN 1025 (P-03) 2014(BA:2019)	*101-Q (***1300 018002 -m/s)	Tque.	- 0.001	No Religação
14	THE PERSON NAMED IN	15.1622-1951;RA-2019	- 43	S0%/Titled	Shall not be do	noctable in:any sample
16	1-1-01	15 (622:100), RA-2019	Abutile	MENUFORM	Shift not be do 100 ml	tectable in any

Since - "IT Officing Laurent, Commission, "SLOQ-Limited Commission





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Simple Number:

DMSPL/GW/SIOM/04

Report No. Format No.: DMSPL/GW/IIICO/2402/004

Same & Address of the Property

Mrs. Nadidilli from Ore Mines. Umler ESL Steel Limited, (BICO)

Party Reference No.:

TAME 01

NIL.

M Nadishli, PO - Keira

Reporting Date:

18/02/2024

Diot. Sumbregarh, Odisha India.

Graund Water Lavels

3.2 Mir.

Sample Description

Graund Water Sample

Period of Analysis:

12/02/2024-15/02/2024

Sample Lection:

Village Ihirapani

Receipt Date:

12/02/2024

Sample Cultrated by

DAISPL Representative

Sampling Date:

10/92/2024

Sampling and Amstron Protecut:

18 3025 & APRIA 23th Edition 2017

Sampling Oscarity:

5.0 Lin + 250nd

**Whitshirt** Partner

Рускозания:

ter fire.

Sampling Type:

Grate

S, No.					Limits of 18:10500 -2012	
	Payamilian	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
- 6	pHocastry	OPTIA ASSAULT RESignation of Method	±100	(100)	0.5 to 8.5	No Eglacation
2	4 like	CPUA 31294; Vous Compilator Melhad	*JILQ1**L0Q1;0;Haxen	Harvi	3	15
	Turndin	53913, 2030 B. Suphlelometric Method	*BLQ(**LOQ LENTO)	NEU		- 5.
	District	APELA, 2 (SER). Threshold Ochur Method	Agreemite	40.	Appenhic	Agreeable
3.	1	APINA, 2160 H., Treeshold Test Medical	This Agree drive	i in	Aprumble:	Agreeable
1	Total Hardness or Call Ol	APITA: 2300 C. EDTA Taranerse Method	148.20	mg/l	200	600 :
	Kalimmay Cir.	APHA, 3800 Ca.B. GETA Taringgic Method	40.20	marl	751	200
X	Michigan United	APIJA (2520 IL/Titrimatric Method	\$46.50	mar)	3187	600
	Kiloreide akt Li	APRIA, 4500-C1 II. Argentomany Method.	84.30	Hgt.	2.00	1000
Th-	Example of St.	VII.14 4500 CV-D	MEQUEOU 0.02 mg/H	mg/L	0.05	No Beignotton
Th.	Namoliik et Ni	ARVA , 3300 Stg H. Calculation Method ;	16.20	me/l	.91	109
TE	Don't Dowbert Solds	APITA 2590 C. Cervinesia Method	352.26	Tupit	.500	2000
18.	Salahan pr. SO <sub>4</sub>	APHA_4500 E_Turnidinsons Michel	52.20	mpī	200	400
14	Fluoriscas F	APRA, 4390 F. D. SPADNS Method	122	fign	1.00	1.5
71	Name = NO.	(s. 9324.) P. Lin Eliminotropia Mediod	23:00	Tigitt	45	No Balasania
To.	horae fy	IX 309X1FinO201016A29109.	0.24	esp.l	1.0	No relevation
-11	Alternativo la M	35.36951F457c3014(RA2019)	*HEQ0:4E00 0003 Hg/D	Tate	0.03	.0.2
16	Horisi	IS 3025 (Park) 2014 (RA) 2017)	(figm (6.0 QO.7**)Q.(III*	mg/l	0.5	2.4
16	Chronium as Cr	15 1025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 ::::/I)	Hg/I	0.05	No Ridination

Salut

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### Test-Report

Seeple	St. DNSPLEWSIO	51/94		Highert 15862	DM5PL/GW/B	14/3///wattechina
					Limits of TS:	00500 -2017
S.Nc	Parameter .	Tast-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible funit in the Absence of Afternate Source
20,	Planels (Improd-	APRIA, 5530 C Chloraforia Entraction Michigal	*HLQ(**1,00) (1,0005 mg/b	mp/4	0.001	0.003
21.	MineralOff	Floor Falls 107(Far. 9)		Tiget:	130	No Retioner
12	MILLS (PAR)		*INTER-COCOUNT (IN)	.mg/f	0.2	E.0
.77.	Replied from	is 1025 P-26. Onto totaline Method:	*BUH (**FH 0.15mg/l)	ampt.	-	22.7
28	Sulignose No	Financia APRA ISOD by IL Flame Photomuse: Method		rigit		4
	APRIX 2500 KB Florer Procurenting Method		4.50	bigit	22	¥.
78	Zucheku.	18.3025 R5650-2014(RA-2019)	2.20	/Hig/T	5.	13.
31	Copperince	[SC 3025 (P.65):2014(RA:2019)	0.16	1910/9	0.05	1,5
26	Minimus si Mi	IS 3025 (P+05):3014(RA:2019)	*BEOX**LOQ 0.01 rag(1)	Juga I	10:11	:0.):
34	Charles I	rs 1025 (P-83):2914/EA:20191	**************************************	2910/7	0.003	No Relaxation
110	Lucial on PH	DC 0075 (15-65) 20 14 HCA 2019)	TREQUESTION DISCOURTS	tiggit	:0:00	No.Reticution
71	School School School	PS 1024 (PAAS) 20TH/RA-20191	Chamilton DOTES CHAMP	ong/3.	11.111	No Melassion
12	Neurola at Av.	15 3025 (Ps65):2014(BA-2014)	*BEQX**LOQ 0.005 =g/TI	must.	litit	No Biliacution
- 17	Manager 15	DV 1025 (PaiS) (2015k) (A-2015)	*3EQ (*ELOQ 0.0005 mg/D.	Trippe	1,00.0	No Reposition
14	Topi Collins	88-1872-1981; RA-2989.	2	3/029/300mi	100 mi	sample
13	E-CoR	15-1925-1-881 BA-2010	/ Absent:	ABPN/100ml		creatable in any sample

Nation of Title Collection Limit of Operatification, 4\*1,000- Lawrent Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Sin

Name & Address of the

Project:

DMSPL/AN/NIOM/01-08 M/s Nadidib Iran Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Korra

Dritt. Sumlargarh, Odisha India.

Report No: Reporting Date: DMSPLAN/BICO/2402/001-008

05/03/2024

Ref. No: NfL

Monitoring Period: 1th Feb.

1th Feb. 2024 to 29th Feb. 2024

Equipment Used:

Sound Level Meter

Protocol Used:

15-9989

DATSPL Representative II

Parameter Required: As per Govt. Standard

Sample Description:

Sample Name:

Sample Colleged By

Ambient Naise Monitoring Naise Level Monitoring Customer Numer

Sodidib from Ore Stines

Sample Condition

Good/Clear

#### RESULTS

Se, Sin.	Location	Date	Latitude	Langitude:	Day Time (iIII(A))	Night Time (dB(A))
1	New Stine Office:	03.02.2024	21-58-09" N	85' 15'33" E.	64.1	51.9
2	Near Mines Gate	08.02.2024	21" 58'23" N	N5" 15"44" E	63.2	527
	Standard Li	nit Industrial	Area as per CPC	B	75.0	70.0
3	Village Kenduhidi	12.02.2024	21 59'45" 8	85" 16"14" E	513	43.6
- 1	Village Badipada	17.02.2024	21" 58'64" N	85° 18°33" E	39.4	42.5
5	Village dhirapani	21.02.2024	21" 59"58" N	85° 13'10" E	53.5	42.4
-6	Village Kushira:	23.02.2024	21° 55° 10° N	85" 15"20" E	52.6	42.3
+	Upwind Direction	27.02.2024	21" 58'14" N	N5" 13"20" E	49:2	43.2
83	Downwiid Direction	29.02.2024	21"57"19" N	85' 13'34" E	53.8	44.1
	Standard Lin	nit Residentia	Area as per CPC	В	55.0	45.0

CPCB:- Central Pollution Control Board



"\* End of Test Report "



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### Test-Report

Sample Number:

DMSPLENIOM/S/III

Name & Addition of Party:

M/s Nadidih Iron Ore Mines,

Umler ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargarh, Otisha India.

Report Sio-

DMSPL/S/BICO/2402/001

Former No.:

5.10 F-01

20/02/2024

Party Reference No.:

NIL

Sample Description

Scientific Lection. Somple Cirilization I by SOIL

Insulg Mion Arm

DAISPL Lab Representative

Reporting Three Recurry Draw.

Sampling Date: Type of Sampling

12/02/2024 10/02/2024 Composite 2.0 Kg 30 cm

1.40

1/20

eng/300gen

mg/IIII)pps

Sampling Quantity: Depth of Sampling: Packing Sums

Temp Senled

Sampling & Australia Prospetti

IN 2720 & USDA

S. Nin.	Paramiter	Pratucol	Besult.	tinit
7	pri (m 55/ C)	18 (2720 (1526)(1987)	30.70	. 445
3	Continues	16:14767-2mm Rentlianed 2006	0.35	mSigni
	Soft Texture	USDA Method 1968	Silty Loim	100
-	Dahir	LISDA Method, 1968.	Xelfownill	
A	Water Softling copieting	USDA Memori, 1968	24.20	76
Ď.,	(h)B, slammy	USDA Method 1968	170	gin/cc
91	(Sheidras Cl	USDA Method: 1968	25.20	mg/100gpi
Н	Cardinal III Ca	USDA Mehni, 1968	30.26	ng/100gu
	Sedimmar No.	USDA Mellini, 1968	28.50	riig/100gn
/00	Parameter of K	USDA Method, 1968:	60:20:	kphec.
П	Organii/Matter:	15:2731 (P-22, 1972)	0.50	156
12	Magnesiam of Mg.	USDA Method, 1908	10.20	mg/100gm
J.J	Available Nettojaa ak S	18:14684. 1999.	225-20	kg/fec
H	Neuthins Phosphoros	USUA, APRIA-4500PC	30,10	kg.frec
13	Jac # /m	APITA-30360, APITA-31118	5.40	ing/100gir
16-	Manganese in Mr.	APPLASHORD, APPLASHITE	3.20	mg/109gn
17.	Chroming at Cr	APRA-3000D, APRA-31110	).46	mg/100gm
187	London Pitr	APRIA-3030D, APRIA-3111B	0.60	20g/100gir

APPLA-JUSTID, APPLA-STITTS

APTEA-JOSOD APPEA-STEEL

Ladyment = FM

450 pay in Cir.

132

261

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≥ 8128412491 = diacareminingsolution@amail.com



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Similar

Name & address of the

Project

DMSPL/SIOM/ST/01

Mrs. Nadidité from Ore Mines. Under ESL Steel Limited, (IIICO)

At Nadidili, PO - Koira

Distr. Sundargarh, Odisha India.

Report No.:

DMSPL/ST/BJCO/2402/001

Format Na.:

7.8 F-03

Party Reference No.: NIL

Reporting Date:

25/02/2024

Period of Analysis:

15/02/2024 to 25/02/2024

Receipt Date:

12/02/2024

Sumple Description :

Stack Emission Monitoring

Convert Information

Sampling Location

Mine Site

Sample Collected by

DMSPU Lab Representative:

Date of Sampling Sampling Duration (Minutes).

10/02/2024 36.0 Min

Stuck attuched to

DG Set

Make of stack

MS

Diameter of stack (up)

0.30 Meter.

Instruments calibration status

Calibrated

Meteorological Candition

Clear Sky

Ambient Temperature - Ta (\*C).

26,0

Comperature of stack Gases - In (\*C)

202.0 7.20

Velocity of stack Grain (moreca) Flow may of PNL (LPNI)

22.0

Flow Paty of Gas (LPM) Sampling condition

2.0 bokinetic

Printed of the level

15:11755

### RESULTS

S. No.	Test Farameters	Test Method	Results	Units	Limits as Per CPCB
de_	Particular Street or Mts	18 11255 (P-1), Gravimanic Method.	32.10	mpNm1	-75
2	Tittale of Surrousinger States	TS:11:255 (0+7)	126:10	phin	710
Ju.	ASAHC	DWSPL/HSV/STP/ST/TC(A/01; Boose Noc- 01;04/11/21	14.20	mg/Nm <sup>b</sup>	100
4	Sofphia Dimoderns S(A2)	IS 11255 (P-2), Findments Method	18.20	mg/Nint <sup>b</sup>	E1
X.	Cartve Monoride (a) CO)	LIMSPLIENV/STP/STHGA/01, Book No	20.20	mg/Nm <sup>1</sup>	150

Silie S & PSLIF - 19 St. - PROBLEM No. Above

\*\*\* First of Report \*\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample Nonthern

DMSPL/NIOM/SW/01

Test-Report

Report No.7

DMSPL/SW/HICO/2402/001

Name of the Project:

M/s Nadidih tron Ore Mines, Under ESL Steel Limited, (BICO)

Party Reference No.: NIL

Format No.: 78.F-01

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Reporting Date:

18/02/2024

Sample Descriptions

Surface Water Sample

Period of Analysis:

12/02/2024-18/02/2024

Southling Location.

River Sample (Near Mines Upstream)

Receipt Date:

12/02/2024

simple Cathered for

DNISPL Lati Representative

10/02/2024 Sampling Date:

Роски натиге.

kee flux

Sampling Quantity: 2.0 Ltr = 250ml.

Sampling and Amilysis

APHA & 15, 23" Edition 2017

Sampling Type:

Composite

S. No.	Parameter	Test-Method	Result	Unit
1	pfi tig 25 % s	APHA (4500-II) B Electrometric Method	7.44	-12
3	Colinir	APHA 2120 B, Visual Comparison Method	22.0	Hugo
1	Turbidig	APRA, 2130 B, Nephielometric Method	- 31	NEE
)i	Utlear	APHA, 2150 H., Enreshald Fest Method	Apresible	-
4	Teattheliseen facto	APMA_2340 C_EDTA Timmetric Method	02.2	me/1
la,	Capiting Ca	APHA, 3500 Ca B, CDTA Tarimetric Method	22.2	mastr
1.	ATRAHINIY DE CACION	APILA 2320 B. Fittimetric Method	76,5	mg/T
X.	Chlorote quit. I	APITA, 4500-CT B. Argentometric Method	14,2	9967
ii.	Yoral Renistral Oldering	15 3025 P-26, Unba-valuating Method	*980L(**DL-0.15mg/l)	migri
I()	Cyllide in CN	APHA, 4500 CN D. Burblinge Achi Mahoil	*BDL(**DL 0.02 mg/l)	Tgm
11	Маненио Ме	APRIA: 3500 Mg B, Calculation Method	3,44	समृद्धत
12	Total (Insured Visida	APHA: 2310 C. Creminante Mahad	262	mg/t
TA.	Total Supportal while	APITA 25th O' Liru imenic Melhid	27.0	- ingl
(ii	Dissolved Organi	APFIA, 1500 O.B. Indonesco: Stefford	7.0	mg/L
15	Sulphile	15:3025 (7:29):2022	454	nm.1
(i)	Photocov1	APPLA 4300-F D. SPATINS Million	0.24	mg/t
1.7	BODY LTuscut2797)	APILA; 5210.0 LBC3625.P-44	16:10	Tgm
10	4300	APRIA: 3220 B. Onen Reflux Mathed	88.20	mg/j





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### Test-Report

Sitemic	No. DMSPL/NIOM/SW/01	Report No.: DMSPL	SW/IECO/2402/0	
8. Su	Parameter.	Test-Method	Result	Unit
197.	Conductivity or 2010	APHA 2S10 R Conductivity Meter Method	0.434	mS/cm
27	National NO	15 1025 (P-34) Chrom-opic Method	6:10	mg/I
21:	California (J. Sa)	APRALISSO Na B, Flume Phalametric Method	17.50	m <u>u</u> ff
2.0	Price-time of K	APHA 3500 K B, Flame Photometric Michod	6.22	mgrif
ZII.	bron as Fir	18 1025 (P-65):2014(RA:2019)	0.94	mitt.
74.	Alignopous as Al	(\$ 3023 (P-65) 26H (RA-2019)	*80L(**DL 0.002 mg/l)	mg/I
5	Emet.	EC 3025 (P-653-2019) R-P-2019)	.HDELDF 0.00% milt()	nug/T
36s.	Messissition Christian at Cr.	18.3025.0946512014(RA:2019)	*H18,c**(3), 6,992 mg/1	mair
17.	Therebe Compounds	APRAC 3530 C Chloroform Extraction Method	*BDL/**DL 0.0004mg/1	mg/l
706	#10 months	Glause 6 of 15:3025 (Part 39)	*BD1/**DL 0.1 mg/0	mg/l
le:	PAmenic Detergents as MBAS	APHA, 5540 C MBAS Method.	*HDL(**DL 0.05 mg/l)	mg/l
10	Ding as Re	IS 3025 (P-65)(2014)(RA(2019)	*BDL(**DL 0.05.mp/h	mg/li
115	Copperacto	15 3025 (P-65)(2014)(A:2019)	*B[31;**[31,0.1 mp7)	mg/l
12.	Минданиза за Ми	18 3025 (1565) 2014 (KA:2019)	*BDL/**IM.0.01 mg/l)	mg/l
13.	- Cutimum ar Cit	IS 3025 (P565) 2014(8.4-2010)	*(sD()=*10L (0:002 ing-1)	ing/I
34	Temperiture	[8 3025 (050)(202)	12.3	mg/1
35	UILA Greece	JS-3625 (P-39):2021	*HDL(**DL.26 mp7)	mg/L
The	Case Ananonia	18-3025 (P-34) THRE	*HDL(**DL():20 mg/1)	109/1
57.	Lord Apalmat Strogger	15.3025 (P-34)(1986	43(0E)************************************	mg/L
16	Sielel	Standard Operating Procedure	*BDE/**DL 0:02 mg/D	mg/I
1916	Vandile	Standard Operating Procedute	*BDLC**D1.0.02 mg///	200/71
+0:	Антинация Минуси	18.3025 (P-34); 1988	*HD13**D1.0.20 mg/H	vot/1
ÄT	Empl.Californ	TS-1622-1981, ILA-2019	278	MPN/100id
(E	Feed Celiforni	29:1622.1981, IUA-2019	158	"MPN/T00mil

<sup>&</sup>quot;more black the properties think " "tit - Detection think

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### Test-Report

Sample Namber:

DMSPL/NIONESW/02

Name of the Project.

M/s Nadidih Iron Ore Mines. Under ESL Steel Limited, (BICO)

At Nadiditi, PO - Koira

Distr. Sundargach, Odisha India.

Sample Description:

Sampling Ligation.

Sample Calletted by: Prepareatime:

les Box

Sompling and Analysis

Pontigal:

Surface Water Sample-

River Sample (Near Mines Downstream )

DNISPL Lab Representative

APRIA & 15, 23th Edition 2017

Report No.7.

DAISPL/SW/IHC10/2402/002

Format No.:

78F-01

Parts Reference Nu.: NIL

Reporting Date:

18/02/2024

Period of Analysis:

12/02/2024 18/02/2024

Receipt Date:

12/02/2024

Sampling Date:

18/02/2024

Sampling Quantity: 2.0 Ltr + 250ml.

Sampling Type:

Composite

K:NII	Parameter	Test-Method	Result	Unit
1)	pH (str.25 °C)	APHA A500-H* B Electrometric Method	7.52	-
7	Color	APRA 2120 R. Visital Comparison Method	24.0	Hata
X	Lintridio	APHA, 2130 B. Nephletonietric Method	<1:	NTL
1,	(Signa	APHA-2150 IL: Threshold Test Munod:	/Agrout/ble	-0
5.	Cond (Gallery in ESCO)	APNA, 2340 C. EDTA Timmetric Method	96.1	mgi
60	Citiriiwas Cir	APHA, 3500 Call, EDTA Titionpine Medical	36.2	mg/l
1	Albamins on Catalon	APHA , 2320 B. Turmetric Method	70,2	7Hg/T
ň,	Chimble as 11	APITA, 45064T; U. Argentimistris Mishod	42.20	Egm;
ų,	Total Roubal Chlorina	18, 1025 P-26, Certisi-tolophine Method	*BDL(**DL-II.15mgil):	aug I
HC	Contidences	APLIA 3500 CN D. Hutshing Acid Method	*BDL(**DL 0.62 mg/l)	ing/1
Ü	Моненин и Зъ	APHN . 2500 Mg/B. Calcutation Method:	3544	Pgin:
17	Front Described finding	APMA - 2540 C. Gravimenic Medical	252.0	(100)
1367	Your Suspended wilds	APHA 2540 D. Gravements: Mediand	17.0	mg/i
14	Dissillad Diggal:	APITA 3500 O.B. Logumetric Method	6.5	mig/I
M.	Swiptide	JS 3025 (P-29):2022	70.20	mgri
(4).	Planting	APHA_4509-F D, SPADNS Mixhod	0.44	1197
Fft.	B000/LD61/10/25/7/	APHA_52101 ( #5/02/5)-44	12.20	mg/l
TPI	Y.TMT.	MEDIA 220 H. Chia Reflat Mahod	34.88	me/l

s good is not to be reproduced entirely or in part and cannot be used as evidence in the court of last graph period should not be used in any advertising media without our special permission in writing.

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

-mulé	No. DMSPL/NIOM/SW/02	Report No.: DMSPL/	24// TRIC (3/24/12/00	
KNs.	Thranscher	Test-Method	Result	Unit
Dis.	Conditionly (a) 25°C1	APHA, 2510 B. Conductivity Meter Mothed	0.432	m5/cm
20	Nitrate in NOs	28-3025 (P-34). Chromatopic Method	4.44	mg/L
PL.	Sodium in Nu	APRA 3500 Na. B. Hame Photometric Method	22.28	(light)
102	Politinguo (20-Ks	Affilia 3500 K.B. Flame Plentimetric Method	5.64	Figure
25.	Rengas Pic	IS 3024 (P-65) 2014/RA 2019)	TRULLT TOLOROUS INJURI	mg/L
14	Manager at the	18: 1025 (18:65)(2014/0 A:2019)	*HBL(**DL 0.002 mg/l)	5HIE/1
	piesai	18/3025 (PAS) (001A(8/3/2019)	0.46	:ma/I
26	Heravilleof Chrominmone Cr.	18 1025 (P-65):2014(R-6;2019)	(Fight 100.003 mp/l)	Figm:
25	Franklii Compounde	APRIA, \$530 C Chloroform Extraction Method	*BDL(**TM, 0.0004mg/l)	mil/
76	#Mmeral Oil	Clause 6 of IS:3025[Part 39]	*BDE2**DE.().1 mg/()	hug/l
-	SAMMIC Detropouts as MBAS	APHA, 5540 CMBAS-Method	*8DL:**DL:0.05 mg/l)	nije/I
	Um = 106	18-2025 (P-65)(2014(RA:2019)	*BDL(**DL-0.05 mg/b	rng/I
	канерия:::::Си	(9.3025 (9.65) 20(4(8.4)2019)	:#BDL(>*DL-0(Lm#T))	mg/k
	Ramparass at No	4S 2025 (P-65)/2014(RA/2019)	*HD4.(**D4.0.01.046)	1992/7
11	Codminum as Cal	IS 3025 (P-65 t/2014(RA:2019)	*BDL(**DL:0.002 mg/l)	riig/t
	Tamponia.	15/3025 (P-9):2023	22.X	mg/I
JA.	Oll & Gross	15 3023 (1930) 2021 -	*BDE2**ER, 2.0 mg/b	mg/T
	From Annual	26/3025 (3-34):19/8	*HDTF*D1.0.28.00 (E.	01071
1111		BC 1025 LPS341 1988	*#DLE**DU 0-29 mg/17	mg/1
	Telefolded Schools	Sundani Operanii Procedine	*HUL(**1)L,0.02 mg(1)	nig/l
2	5464	Standard Operaring Procedure	*DD14**DE-0.02 mg/0	rig/I
1	Validina:	15 3025 (P-34) 1988	*10014**DL 0.20 mg/0	1997)
4/1	Ammonial Services	IS T622-1981 R A-2019	298	MPN (100ml
47	York Coliforn Event Colliforn	IS 1622-1981; B.4-2019	182	MPS/10/im

"The Daine Designs 1 in "The Desertion Limit





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIO/01-10

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Keira

DMSPL Representative

Near Mine Office (A1)

21"58'09" N

Distt. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No:

DMSPL/AA/BIC/2403/001-010

Reporting Date: 05/04/2824 Ref. No:

NIII.

Monitoring Period:

I" Mar. 2024 to 31" Mar. 2024 RDS & FPS with all accessories

Equipment Used: Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter

Customer Name: Sample Condition Longitude:

Nadidib Iron Ore Mines Good/Clear

85" 15"33" E.

Date	PM <sub>10</sub> (μg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO: (µg/m³)	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m3)
01.03.2024	63.2	45.3	16.2	26.4	0.65
04.03.2024	65.4	41.9	15.6	33.5	0.66
08.03.2024	726	42.6	17,7	26.2	0.62
10.03.2024	62.2	45.3	17:2	24.4	0.65
13.03.2024	65.4	44.9	15.6	33.5	0.62
16.03.2024	71.5	46.8	17.4	25.6	0.60
20.03.2024	75.2	33.6	18.2	25.1	0.53
23.03,2024	67.0	34.0	18.6	27.2	0.54
26.03.2024	72.2	36.8	19.2	24.2	0.54

RESULTS

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (µg/m³)	PM <sub>2.8</sub> (μg/m <sup>3</sup> )	SO <sub>2</sub> (μg/m³)	NO <sub>2</sub> (μg/m <sup>3</sup> )	CO (mg/m³)
		100	60	80	80	4
	Method of Analysis	1S 5182 (Part - 23)	15 5182 (Part - 24)	IS 5182 (Part - 2)	IS 5182 (Part - 6)	18 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/10-19

M's Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidib, PO - Keira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2403/010-019

05/04/2024

Ref. No:

NIL.

Monitoring Period:

Equipment Used:

Protocol Used:

1" Mar. 2024 to 31" Mar. 2024 RDS & FPS with all accessories

15-5182 & CPCB Guidelines

Sample Collected By:

Sample Description:

Location: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Near Mines Gate (A2)

21" 58"23" N

Parameter Required:

Customer Name: Sample Condition

Longitudes

As per EC Letter

Nadidih Iron Ore Mines

Good/Clear 85" 15'44" E

#### RESULTS

Date	PMm (µg/m²)	PM <sub>2,5</sub> (µg/m <sup>3</sup> )	SO <sub>1</sub> (µg/m <sup>3</sup> )	NO: (µg/m³)	CO (mg/m3)
01.03.2024	85.0	47.6	18.6	30.2	0.72
04.03.2024	82.8	43.0	20.6	30.1	0.94
08.03.2024	84,2	40.2	18.1	28,1	0.90
10.03.2024	74.9	46.4	16.3	31.5	0.82
13.03.2024	81.4	36.3	18.6	27.2	0.98
16.03.2024	82.7	47.1	16.9	26.1	0.90
20.03.2024	72.2	42.6	17.7	26.2	0.62
23.03,2024	62.2	45.1	17,1	24.2	0.64
26.03.2024	65,4	44.8	15.5	33.9	0.61

Limit as per NAAQS*	Parameter	PM <sub>10</sub> (μg/m <sup>3</sup> )	PM <sub>2,3</sub> (jig/m <sup>3</sup> )	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>3</sub> (µg/m <sup>3</sup> )	CO. (mg/m³)
	7.00	100	60	80	80	4
	Method of Analysis	15 5182 (Part - 23)	15 5182 (Part - 24)	1S 5182 (Part - 2)	1S 5182 (Part - 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/19-28

M/s Nadidih fron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date:

225

DMSPL/AA/BIC/2403/019-028

05/04/2024

NIL

Ref. No: Monitoring Period:

Equipment Used: Protocol Used: 1th Mar. 2024 to 31th Mar. 2024

RDS & FPS with all accessories

18-5182 & CPCB Guidelines

Sample Collected By: Sample Description:

Sample Description

Location: Latitude: DMSPL Representative

Ambient Air Quality Monitoring

Village - Kenduhidi (A3) 21° 59'45" N Parameter Required:

Customer Name: Sample Condition

Sample Condition Longitude: As per EC Letter Nadidih Iron Ore Mines

Good/Clear 85° 16'14" E

#### RESULTS

Date	PMm (µg/m²)	PM <sub>2.6</sub> (μg/m <sup>3</sup> )	SO <sub>1</sub> (µg/m <sup>2</sup> )	NO; (µg/m²)	CO (mg/m3)
02.03.2024	66.9	44.6	15.2	28.0	0.69
05.03.2024	68.0	27.10	16.2	29.0	0.55
09.03.2024	62.2	27.4	8.1	18.4	0.53
11.03.2024	57,3	30.3	9.5	17.8	0.54
14.03.2024	64.4	29.9	7.1	16.9	0.52
17.03.2024	58.5	30.6	8.7	19.1	0.56
21.03,2024	62.2	45.3	17.2	74.4	0.65
27.03.2024	65.4	44.9	15.6	33.5	0.62
30.03.2024	66.5	49.9	15.8	29.2	0.89

Limit as per NAAQS*	Parameter	РМ <sub>18</sub> (µg/m³)	PM <sub>2,5</sub> (µg/m <sup>2</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>2</sup> )	CO (mg/m³)
	1941	100	60	80	80	4
	Method of Analysis	IS 5182 (Part - 23)	1S 5182 (Part – 24)	IS 5182 (Part - 2)	1S 5182 (Part - 6)	IS 5182 (Part – 10)

National Ambient Air Quality Standards.

\*\*End of Test Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIO/28-37 M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distr. Sundargurh, Odisha India.

DMSPL Representative

Ambient Air Quality Monitoring

Village Badipada (A4)

21" 58'04" N

Report No: Reporting Date:

Ref. No:

Monitoring Period:

Equipment Used: Protocol Used:

Parameter Required: Customer Name: Sample Condition

Longitude:

DMSPL/AA/BIC/2403/028-037

05/04/2024 NIL

I" Mar, 2024 to 31" Mar, 2024 RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

As per EC Letter Nadidih Iron Ore Mines

Good/Clear 85" 18"33" E

#### RESULTS

Date	РМ <sub>10</sub> (µg/m <sup>2</sup> )	PM2.6 (µg/m <sup>3</sup> )	SO <sub>1</sub> (µg/m <sup>2</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	C() (mg/m3)
02.03.2024	73.8	43.2	20.1	29.3	0.72
05.03.2024	72.8	44.9	15.6	33.5	0,62
09.03.2024	73.5	46.8	17.4	25.6	0.60
11.03.2024 65.4		29.8	10.2	16.9	0.56
14.03.2024	58.5	30.6	9.7	19.1	0.58
17.03.2024	62.2	45.3	17.2	24.4	0.65
21.03.2024	65.4	44.9	15.6	33.5	0.62
24.03.2024	59.5	31.2	11.2	20.2	0.58
27.03.2024	61.4	37.6	16.6	30.0	0.66

Limit as per NAAQS*	Parameter	PM10 (µg/m³)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	(mg/m²)
	26.	100	60	80	80	4
	Method of Analysis	1S 5182 (Part - 23)	1S 5182 (Part - 24)	IS 5182 (Part - 2)	1S 5182 (Part – 6)	IS 5182 (Part - 10)

National Ambient Air Quality Standards.





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIO/37-46

M/s Nadidih fron Ore Mines.

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2403/037-046

05/04/2024

Ref. No:

NIL

Monitoring Period:

1" Mar. 2024 to 31" Mar. 2024

Equipment Used:

RDS & FPS with all accessories 1S-5182 & CPCB Guidelines

Protocol Used:

Parameter Required: Customer Name:

As per EC Letter Nadidih Iron Ore Mines

Suproved By

Sample Condition Longitude:

Good/Clear 85° 13'10" E

Sample Collected By: Sample Description:

Location: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Village Jhirapani (A5)

21" 59"58" N

#### RESULTS

Date	PM <sub>10</sub> (μg/m <sup>2</sup> )	PM <sub>2.5</sub> (μg/m <sup>3</sup> )	SO <sub>2</sub> (pg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m²)	CO (mg/m3)
03.03.2024	58.5	30.6	8.7	19.1	0.56
06.03.2024	62.2	45.3	17.2	24.4	0.65
10.03.2024	65.4	44.9	15.6	33,5	0.62
12.03.2024	68.4	42.9	18.1	27.8	0.63
15.03.2024	63.9	45.5	16.5	31.2	0.63
18.03.2024	58.5	30.6	8.7	19.1	0.56
22.03.2024	62.2	45.3	17.2	24.4	0.65
25.03.2024	67.8	42.5	18.3	27.8	0.68
28.03.2024	63.3	23.4	7.5	19.1	0.60

	Parameter	PM <sub>16</sub> (µg/m <sup>2</sup> )	PM <sub>2.8</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO; (μg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
Limit as per		100	60	80	80	4
NAAQS*	Method of Analysis	18 5182 (Part - 23)	1S 5182 (Part - 24)	IS 5182 (Part - 2)	1S 5182 (Part - 6)	15 5182 (Part - 10)

National Ambient Air Quality Standards.

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""End of Test Report"

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/N1O/46-55

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Keira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AA/BIC/2403/046-05 05/04/2024

NIL.

Ref. No:

Monitoring Period: Equipment Used:

Protocol Used:

1" Mar. 2024 to 31" Mar. 2024 RDS & FPS with all accessories

IS-5182 & CPCB Guidelines

Parameter Required:

Customer Name: Sample Condition As per EC Letter Nadidih Iron Ore Mines

Longitude:

Good/Clear 85° 15'20" E

Approved

Sample Collected By: Sample Description:

Location: Latitude:

DMSPL Representative

Ambient Air Quality Monitoring

Viffage Kashira (A6)

21" 55'10" N

#### RESULTS

Date	PM <sub>m</sub> (µg/m <sup>2</sup> )	PM <sub>2,0</sub> (µg/m <sup>3</sup> )	SO <sub>1</sub> (μg/m <sup>3</sup> )	NO: (µg/m³)	CO (mg/m3)
03.03.2024	65.5	46.6	18.7	26.4	0.66
06.03.2024	62.2	27.4	8.1	18,4	0.53
10.03.2024	S8.6	30.3	9.5	17.8	0.54
12.03.2024	58.3	23.4	7.5	17.1	0.57
15.03.2024 58.5		30.6	9.7	19.1	0.58
18.03.2024	62.2	45.3	17.2	24.4	0.65
22.03.2024	65.4	44.9	15.6	33.5	0.62
27.03.2024	59.5	31.2	11.2	20.2	0.58
30.03.2024	64.6	44.3	16.3	32.4	0.60

Limit as per NAAQS*	Parameter	PM <sub>12</sub> (µg/m <sup>3</sup> )	PM <sub>2,5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
		100	60	80	80	4
	Method of Analysis	15 5182 (Part - 23)	IS 5182 (Part - 24)	1S 5182 (Part - 2)	IS 5182 (Part - 6)	IS 5182 (Part – 10)

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIMM/01

M's Nadidih Iron & Mn Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

Village Kashira (A6)

21" 58' 10" N

Distt. Sundargarb, Odisha India.

Ambient Air Quality Monitoring

Report No:

DMSPL/AAM/2403/001

Reporting Date: Ref. No:

05/04/2024

Moultoring Period:

NIL.

Equipment Used:

March 2024

RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required: As per EC Letter

Customer Name: Sample Condition Nadidih Iron & Mn Mines

Good/Clear Longitude: 85" 15'20" E

### RESULTS

Date of Sample	Ozune	Ammonia	Lend	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m³)	(µg/m³)	(µg/m³)	(ng/m <sup>3</sup> )	(ug/m3)	(µg/m³)	(ng/m3)
08.03.2024	25.6	36.4	<0.05	<0.05	<0.50	<5.0	<1.0

Limit as	Parameter	Ozone (µg/m²)	Ammonia (µg/m³)	Lead (µg/m²)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/m3)
	**:	180	400	1	20	6	5	1
NAAQS*	Method of Analysis	IS 5182 (Part - 9)	IS 5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part – II)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIMM/02

Mis Nadidih Iron & Mn Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Knica

DMSPL Representative

Village Jhirapani (A5)

Distt, Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No: Reporting Date: DMSPL/AAM/2403/002

05/04/2024

Ref. No:

NIL

Monitoring Period:

March 2024

Equipment Used: Protocol Used:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

As per EC Letter Nadidih Iron & Mn Mines

Sample Condition Longitude:

Good/Clear 85" 13'10" E

21° 59'58" N

RESULTS

Date of Sumple	Ozone	Ammonia	Lend	Nickel	Arsenie	Benzene	Benzo(a)pyrine
	(µg/m³)	(ng/m³)	(pg/m <sup>3</sup> )	(mg/m <sup>3</sup> )	(ng/m3)	(µg/m³)	(ng/m3)
10.03.2024	23.60	36.90	<0.05	< 0.05	<0.50	<5.0	<1.0

Limit as per NAAQS*	Parameter	Ozone (µg/m³)	Ammonia (µg/m³)	Lead (jig/m³)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/m3)
	#1	180	400	1	20	6	5	1
	Method of Analysis	IS 5182 (Part - 9)	18 5182 (Part – 25)	IS 5182 (Part - 22)	IS 5182 (Part - 26)	As per CPCB By AAS	18 5182 (Part - 11)	IS 5182 (Part – 12)

National Ambient Air Quality Standards.





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  - 4. The results are related to the test items only.



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIMM/3

M/s Nadidih Iron & Mn Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AAM/2403/003

05/04/2024 Ref. No:

NIL

Monitoring Period:

March 2024

Equipment Used:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

Protocol Used:

As per EC Letter

Parameter Required: Customer Name:

Sample Condition Longitude:

Nadidih Iron & Mn Mines Good/Clear

85° 15'33" E

Sample Collected By:

Sample Description:

Location: Latitude: DMSPL Representative

Ambient Air Quality Monitoring

Village Badipada (A4)

21" 58'04" N

RESULTS

Date of Sample	Ozone	Ammonia	Lend	Nickel	Arsenic	Benzene	Benzo(n)pyrine
	(µg/m³)	(µg/m²)	(µg/m³).	(ng/m³)	(ng/m3)	(µg/m³)	(ng/m3)
14.03.2024	23,30	39.20	< 0.05	< 0.05	<0.50	<5.0	<1.0

	Parameter	Ozone (µg/m³)	Ammonia (pg/m³)	Lead (µg/m³)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/m3)
Limit as		180	400	1	20	6	5	T
NAAQS*	Method of Analysis	IS 5182 (Part - 9)	IS 5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part - 26)	As per CPCB By AAS	IS 5182 (Part - 11)	18 5182 (Part – 12)

National Ambient Air Quality Standards.





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Coffeeted By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIMM/4

M/s Nadidih Iron & Mn Mines,

Under ESL Steel Limited, (BICO) At Nadidih, PO - Koira

Distr. Sundargarh, Odisha India.

DMSPL Representative

Ambiest Air Quality Monitoring

Village Kenduhidi (A3)

21° 59'45" N

Report No:

Reporting Date: Ref. No:

05/04/2024

NIL

Monitoring Period:

Equipment Used: Protocol Used:

March 2024 RDS & FPS with all accessories

DMSPL/AAM/2403/004

15-5182 & CPCB Guidelines

Parameter Required:

Customer Name: Sample Condition As per EC Letter Nadidih Iron & Mn Mines

Good/Clear 85° 16' 14" E

Longitude:

#### RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m³)	(pg/m²)	(ng/m³)	(ng/m3)	(µg/m³)	(ng/m3)
19.03,2024	22.5	39.5	<0.05	<0.05	<0.50	<5.0	<1.0

Limit as per NAAQS*	Parameter	Ozone (µg/m³)	Ammonia (µg/m³)	Lead (µg/m³)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyzine (ng/m3)
	++	180	400	1	20	6	5	1
	Method of Analysis	IS 5182 (Part - 9)	18 5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part – 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AA/NIMM/5

M/s Nadidih Iron & Mn Mines, Under ESL Steel Limited, (BICO)

At Nadidili, PO - Keirn

Distt. Sundargarh, Odisha India.

Report No:

DMSPL/AAM/2403/005

Reporting Date: 05/04/2024

Ref. No: NIL. Monitoring Period: Mar

March 2024

Equipment Used:

RDS & FPS with all accessories

Protocol Used:

IS-5182 & CPCB Guidelines

Parameter Required:

: As per EC Letter Nadidih Iron & M

Customer Namez Sample Condition Naditih Iron & Mn Mines Good/Clear

Longitude:

85" 13'09" E

Approved B

Sample Collected By: Sample Description:

Location: Latitude: DMSPL Representative

Ambient Air Quality Monitoring

Near Mines Gate (A2)

21" 59'52" N

RESULTS

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m³)	(µg/m³)	(µg/m <sup>5</sup> )	(ng/m³)	(ng/m3)	(µg/m³)	(ng/m3)
27,03.2024	25.10	36.10	< 0.05	< 0.05	< 0.50	<5.0	<1.0

Limit as per NAAQS*	Parameter	Ozone (µg/m³)	Ammonia (µg/m³)	Lead (µg/m³)	Nickel (ng/m³)	Arsenic (ng/m3)	Benzene (µg/m²)	Benzo(a)pyrine (ng/m3)
	÷	180	400	1	20	6	5	1
	Method of Analysis	IS 5182 (Part - 9)	15 5182 (Part – 25)	1S 5182 (Part - 22)	IS 5182 (Part – 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part – 12)

National Ambient Air Quality Standards.

\*\* End of Test Report\*\*

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4. The results are related to the test items only.

8126412491 = digcareminingsolution@gmail.com



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Project:

Location:

Latitude:

DMSPL/AA/NIMM/6

DMSPL Representative

Near Mine Office (A1)

21° 58'09" N

M/s Nadidih Iron & Mn Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Ambient Air Quality Monitoring

Report No: Reporting Date: DMSPL/AAM/2403/006

Ref. No:

05/04/2024 NIL

Monitoring Period:

Equipment Used:

March 2024

Protocol Used:

RDS & FPS with all accessories IS-5182 & CPCB Guidelines

Parameter Required:

As per EC Letter

Customer Name:

Nadidih Iron & Ma Mines

Sample Condition Good/Clear Longitude: 85" 15'33" E

Date of Sample	Ozone	Ammonia	Lead	Nickel	Arsenic	Benzene	Benzo(a)pyrine
	(µg/m²)	(µg/m³)	(jug/m³)	(ng/m²)	(ng/m3)	(µg/m²)	(ng/m3)
30.03.2024	27.40	31.50	<0.05	≪0.05	≪0.50	<5.0	<1.0

RESULTS

Limit as per NAAQS*	Parameter	Ozone (µg/m²)	Ammonia (µg/m³)	Lead ()rg/m <sup>2</sup> )	Nickel (ng/m <sup>3</sup> )	Arsenic (ng/m3)	Benzene (µg/m³)	Benzo(a)pyrine (ng/m3)
	-	180	400	18	20	6	5	1
	Method of Analysis	18 5182 (Part - 9)	IS 5182 (Part - 25)	IS 5182 (Part - 22)	IS 5182 (Part – 26)	As per CPCB By AAS	IS 5182 (Part - 11)	IS 5182 (Part - 12)

National Ambient Air Quality Standards.





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Sample Name:

Project:

DMSPL/FD/NIMM/01-09

M/s Nadidih Iron & Mn Mines. Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

DMSPL Representative

Fugitive Dust Sample

Ambient Air Monitoring

Distr. Sundargarh, Odisha India.

Report No:

Ref. No:

Reporting Date:

05/04/2024

NIL

Monitoring Period:

Equipment Used:

1" Mar. 2024 to 31" Mar. 2024 RDS & Personnel Dust

DMSPL/FD/2403/001-009

Sampler

Protocol Used:

15-5182 & CPCB Guidelines

Parameter Required:

Customer Name:

As per EC Letter

Nadidih Iron & Mn Mines

Sample Condition Good/Clear

#### RESULTS

Sr. No.	Location	Date	Latitude:	Longitude:	SPM (µg/m²)
1	Mine Benches Area	08,03,2023	21° 57' 40" N	85° 15°10° E	980.10
2	Haul Road	11.03.2023	21°57'48" N	85° 15° 16" E	950,0
3	Crushing Plant	16.03.2023	21° 57"35"" N	85° 15' 13" E	962.0
4	Screening Plant	20,03.2023	21* 57' 12" N	85° 15°21" E	975,20
5	Ore Loading Area	26.03.2023	21° 57'26" N	85" 15"23" E	967.50
6	Waste Dump Area	30:03:2023	21° 57'33" N	85° 15'07" E	879.50

Limit as per Consent*	Parameter	Suspended Particulate Matter (SPM 1200 µg/m³)
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State Pollution Control Board, Odisha.

""End of Test Report"





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

Name & Address of the

Project:

DMSPL/AAFS/NIMM/01-09

M/s Nudidih Iron & Mn Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Report No:

Ref. No:

Reporting Date:

DMSPL/AAFS/2024/001-09

05/04/2024

NIL

Monitoring Period:

1" Mar. 2024 to 31" Mar. 2024

Equipment Used:

RDS with all accessories

Protocol Used:

15-5182

Sample Collected By:

Sample Description: Sample Type:

DMSPL Representative

Ambient Air Quality Monitoring

Free Silica Composition

Parameter Required:

As per EC Letter

RESULTS

### Chemical Composition of PM 10 with Free Silica

Location	Date	PM10 (μg/nr <sup>3</sup> )	Free Silica	Ся (µg/m³)	Mg (pg/m³)	Ni (ng/m³)	Pb (pg/m²)
Near Mine Office	04.03.2023	55.8	2.0	1.03	0.31	<0.5	0.08
Near Mines Gate	11.03.2023	52.3	2.0	1:04	0.21	<0.5	0.08
Village Kenduhidi	14.03.2023	55.1	2.1	1.03	0.29	⊲0.5	0.08
Village Bandipada	20.03.2023	55.0	1.9	1.11	0.30	<0.5	0.09
Village Jhirapani	23.03.2023	62,0	2.1	1.13	0.27	<0.5	6.07
Village Kashira	30.03.2023	59.3	2.1	1.07	0.30	<0.5	0.08

\*\* End of Report\*\*

(Checked By)

(Approved By)

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Plot No. 672/18, First Floor, Khandsu Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Project:

DMSPL/GW/NIOM/01

Name & Address of the

M/s Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidib, PO - Keira

Distt. Sundargarh, Odisha India.

Report No.:

DMSPL/GW/BICO/2403/001

Format No.: 7.8 F-III

Party Reference No.: Reporting Date:

NH.

Ground Water Level:

18/03/2024 4.2 Mir.

Sample Description:

Sample Location: Sample Collected by:

Sampling and Analysis

Protocoi: Preservation: Ground Water Sample

Near Mine Site.

DMSPL Representative

18 3025 & APHA 23rd Edition 2017

Ice Box

Period of Analysis:

12/03/2024-18/03/2024

Receipt Date:

12/03/2024

Sampling Date: Sampling Quantity:

10/83/2024 5.0 Ltr + 250ml

Sampling Type:

Grab

Approved

					Limits of 18	10500 -2012
S. Na.	Parameter.	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible fimit in the Absence of Alternate Source
1.	pH (at 25.°C)	APEIA ,4500-H* B Electrometric Method	7.85	77.	651085	No Reinsate
2.	Colour	APHA ,2120 B, Visual Comparison Method	*8LQ (**1,0Q 1.0.Hazen)	Hazen	5	15:
3:	Turbidity	APHA, 2430 B, Nephlelometric Method	*BLQ (**LOQ L0 NTU)	NTU	1	- 5
4	Odour	APHA, 2150 B., Threshold Odour Method	Agreeable		Agreeable	Agreeable
5	Toute	APHA 2160 B, Threshold Test Method	Disagrecable	- 2	Agrocable	Agreeable
6.	Total Hardness as CaCO <sub>2</sub>	APITA 2340 C, EDTA Torimetric Method	163.0	mp/t	200	-600
7,	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	53.2	mg/l	75	200
ß,	Alkalinity an CaCOa	APHA , 2330 B, Tilrimetric Method	1235	right	200	600
9,	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	83.5	ngd	250	1000
10.5	Cyanide as CN	APHA , 4500 CN: D	*BLQ(+*LOQ 0.02 mg/l)	mg/l	0,65	No Referention
11.	Magnesium as Mg	APHA 3500 Mg B. Calculation Method	2.56	mg/t	30	100
12	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	359.3	mg/l	500	2000
13:	Sulphinte at SO <sub>4</sub>	APIAA , 4500 F., Turbidimetric Method	83.2	mij/l	290	400
14.	Fluoride as F	APHA, 4500-F D, SPADNS Method	0.46	ing/l	1.0	1.5
13.	Nitrate as NOs	IS 3025 (P-34) Chromotropic Method	21.0	mg/l	45	No Refuxuro
16.	Iron as Fc	IS 3025 (P-65):2014(RA:2019)	0.27	Popul	1.0	No releasing
17	Aluminium as Al	15 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.005 mg/l)	mg/l	0.63	0.2
18.	Beron	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 mg/l)	mg/l	0.5	2.4
10	Chromium as Cr	15 3025 (P-65):2014(RA-2019)	*BLQ(**1,OQ 0.002 mg/l)	ng/i	0.05	No Relaxatio

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sampl	e No.: DMSPL/GW/NIO	ND/01		Report No.	: DMSPL/GW/I	SIC(0/2403/00)
				Н,	Limits of IS	:10500 -2012
5. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20	Phenolic Compounds	APHA, SS30 C Chloraform Extraction Method	*BLQ(**LOQ 0.0005 mg/l)	mp/l	0.001	0.002
21.	Mineral Oil	Clause 6 of IS:3025(Part-39)	*BLQ(**LOQ 6.1 mg/l)	mg/l	1.0	No Relaxation
22	Anionic Detergents as MBAS	Annex K of 15 13428, 15 3025 (P-68)	*HI-Q(**LOQ 0.05 mg/l)	ing/s	0.2	1.0
23.	Residual free Chlorine	15 3025 P-2h, Ortho-toluidine Method	*BDL(**DL, 0.15mg/f)	mg/l	-	
24	Sediam as Na	APHA 3500 No R, Flame Photometric Method	201.50	mg/l		2
25	Potassium as K.	APHA 3500 KB, Flame Photometric Method	6:50	mg/I	-	
26.	Zinc in Zn	IS 3025 (P-65):2014(RA:2019)	0.38	mg/l.	5	15
27_	Copper as Cu	IS 3025 (P-65):2014(RA-2019)	0.15	Hg/l	0.05	1.5
28	Манданеве за Мп	15 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 mg/l)	mg/I	0.1	11.3
29	Cadmium in Cd	IS 3025 (P-63):2014(RA:2019)	*SILQ(**LOQ 0.002 mgf)	mg/l	0.003	No Relaxation
30.	Lend as Pb	IS 3025 (P-65):2014(RA-2019)	*BLQ(**LOQ 0.002.mg/l)	mgð	0.01	No Relaxation
31	Setenium au Se	IS 3023 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.001 mg/l)	mg/l	0.01	No Refecution
32	Atsenic as As	IS 3025 (P-65):2014(RA:2019)	*8LQ(**LOQ 0.005 mg/l)	mg/l	0.01	No Relication
33.	Mercury as Hg	IS 3025 (P-65):2014(RA:2019)	*BLQ (**1.0Q 8.0005 mg/l)	mg/l	0.001	No Relaxation
34.	Total Coldina	IS 1622,1981, RA-2019	<2.	MPN/100ml	Shall not be de	
35.	E. Coli	IS 1622_1981_RA-2019	Absent	MPN/100ml	Shall not be de 100 ml	tectable in any

Note: - \*BLQ-Below Limit of Quantification, \*\*LOQ-Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab DMSPL/GW/NIOM/02

Report No.:

DMSPL/GW/BICO/2403/002

Name & Address of the Project;

W/s National from Ore Mines, Report Under ESL Steel Limited, HICCO

At Nathdill, PO - Koira

Distt. Sundargarh, Odisha India.

15 3025 & APHA 23rd Edition 2017

Format No.: Party Reference No.: 7.8EF-00.

NH.

Reporting Date:

18/83/2024 Ground Water Level: 4.1 Mtr.

Sample Description:

Ground Water Sample

Period of Analysis:

12/93/2024-18/03/2024

Sample Location:

Village Kenduhidi

Receipt Date:

12/03/2024

Sample Collected by:

DMSF1, Representative

Sampling Date: Sampling Quantity: 10/03/2024

Sampling and Analysis Protocol: Preservation:

5.0 Ltr + 250ml

Ice Box

Sampling Type:

Grab

					Limits of IS	10500 -2012
5. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
1.	pH (at 25.90)	APHA 4500-H* B Electrometric Method	7.95		55W85	No Relavation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BLQ (**LOQ 1.0 Histor)	History	.5	15
3.	Turbidity	APHA, 2130 B. Nephlelometric Method	*BLQ (**LOQ 1,0 NTU)	NTU	1	- 5
4.	Odour	APHA, 2150 B Threshold Odour Method	Agrecible	-	Agrecible	Agrecable
5.	Taute:	APSA , 2160 B, Threshold Test Method	DisAgrocable	-	Agracubic	Agrecable
6.	Total Hardness as CaCOs	APHA , 2340 C, EDTA Titometric Method	269.50	mp/7	200	690
7.	Сайснам из Св	APHA, 3500 Ca B, EDTA Titrimetric Method	53.20	mg/l	73	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA 2320 B, Titrimetric Method	147.30	mg/f	200	600
0	Chloride as Cl	APHA, 4500-CF B, Argentometric Method	77.10	mg/l	250	1000
1,0	Cyanide as CN	APHA , 4300 CN D	*BLQ(**LOQ 0.02 mg/l)	mg/1	0.05	No Relaxation
1.1.	Magnesium as Mg	APRIA , 3500 Mg B, Calculation Method	10.15	mig/l	310	100
12,	Total Dissolved Solids	APITA , 2540 C, Gravimetric Method	343.20	mg/I	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA 4500 E. Turhidimetric Method	33.10	mg/I	200	400
14.	Duoride as F	APHA . 4500-F D, SPADNS Method	0.15	mg/l	1.0	1.5
15	Nitrate as NOs	15 3025 (P-34) ,Chromotropic Method	2.58	mg/t	45	No Relavation
lá.	Iron as Fe	IS 3025 (P-65):2014(RA:2019)	0.28	mg/I	1.0	No relassition
12,	Alommium at Al	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.005 mg/l)	mg/t	0.63	0.2
18.	Horon	IS 3025 (P-65)/2014(RA:2019)	*BLQ(**LOQ 0.01 mg/l)	mg/I	0.5	2.4
10	Chromium as Cr	TS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/l)	mg/l	0.05	No Refecution





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sampl	e No.: DMSPL/GW/NRO	M/m2		Report No.	2 DMSPL/GW/I	BIC:O/2493/00
					Limits of 15;10500 -2012	
5. No.	Pacameter		Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BLQ(**LOQ 0.0005 mg/l)	ng/t	0,001	0.002
2.1.	Mineral Oil	Classe 6 of IS:3025(Part 39)	*H£Q(**LOQ (i.) mg/l)	Lynn	T.0 :	No Rolaution
22	Anionic Desergents as MBAS	Annex K of IS 13428, 15 3025 (P-68)	*BLQ(**LOQ 0.05 mg/l)	ng/l	0.2	1.0
23.	Residual free Chlorine	IS 3025 P-26, Ortho-toluidine Mathod	*BDL(**DL-0.15mg/l)	mg/l		
24.	Sodium as Na	APHA,3500 Na B, Flame Photometric Method	20'80	ту/)	-	_
25.	Potassium as K	APHA 3500 KB, Flame Photometric Method	430	mg/l	- 2	2
26	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	1.29	mp/i	- 5	15.
27.	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	0.15	med	0.05	1.5
28.	Manganese as Mn	IS 3025 (P-65):2014(RA:2019)	*HLQ(**LOQ 0.01 mg/l)	ngt	0.1	0.3
29.	Cadmium as Cd	IS 3025 (P-65):2014(RA-2019)	*BLQ(**LOQ 0.002 mg/l)	mg/l	0.003	No Relaxation
30	Lead as Pb	IS 3025 (P-63) 2014(RA-2019)	*BLQ(**LOQ 0.002 mg/l)	hym	0.01	No Referention
31.	Selonium ax Se	IS 3025 (P-65) 2014(RA-2019)	#BLQ(**LOQ 0.001 mg/l)	mg/l	0.01	No Refusation
32	Amenic as As	IS-3025 (P-65):2014(RA:2019)	*BLQ(**LOQ-0.005 mg/l)	mg/t	0.01	No Relaxation
33	Mercury as Hg	IS 3025 (P-65)/2014(RA-2019)	*BLQ (**LOQ 0.0005 mg/l)	mg/l	100.0	No Refaxation
34.	Total Coliform	IS 1622,1981, RA-2019	4	MPN/100mF	Shall not be de 100 ml	tectable in any
35	E. Coli	15 1622 1981, RA-2019	Absent	MPN/(00ml	Shall not be de 100 ml	tectable in any

Note: - \*8LQ-Below Limit of Quantification, \*\*7.OQ-Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/GW/NIOM/03

Name & Address of the Projec

M/s Nudidih Iron Ore Mines,

Under ESL Steel Limited, (BICO) At Nadidib, PO - Koira

Distt. Sundargarh, Odisha India.

Report No.:

DMSP1/GW/BICO/2403/003

Format No.2 7.8 F-01 Party Reference No.:

NHL

Reporting Date: 18/03/2024 Ground Water Level: 4.5 Mtr.

Sample Description:

Sample Location: Sample Collected by:

Sampling and Analysis

Protocol: Preservation: Ground Water Sample Village Badipada DMSPL Representative

Fee Bux

IS 3025 & APHA 23rd Edition 2017

Period of Analysis:

12/03/2024-18/03/2024

Receipt Date: Sampling Date: 12/03/2024 10/03/2024

Sampling Quantity:

5.0 Ltr + 250ml

Sampling Type:

Grub

	Parameter				Limits of 18:10500 -2012	
5. No.			Result	Unit	Requiremen † (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
1-	pH (at 25 °C)	APHA 4500-IT B Electrometric Method	7.50	-	6.5 to 8.5	No Refection
2.	Colour	APHA ,2129 B; Visual Comparison Mathod	*BLQ (**LOQ 1.0 Hazen)	Haze n	.5	15
3	Turbidity	APHA, 2130 B, NephleInmetric Method	*BLQ (**LOQ 1.0 NTD)	NIU	1	- 5
16	Odour	APRA, 2150 B , Threshold Odour Method	Agrovable	-	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agrecable	-	Agreeable	Agrecible
6.	Total Hardness as CaCO <sub>2</sub>	APHA , 2340 C, EDTA Timmetric Method	151:20	ritg/I	200	1600
7,	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	:53:20	regA	75	200
8.	Alkalinity as CaCOs	APHA , 2320 B, Titrimetric Method	125,10	mg/L	200	600
9.	Chloride as Cl	APHA, 4500-CT B, Argememetric Method	83.10	mg/I	250	3000
10.	Cymide as CN	APHA . 4500 CN-D	*BLQ(**LOQ 0.02 mg/l)	Pages	0.05	No. Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	5.60	ng/i	30	100
12.	Total Disnolved Solids	APHA , 2540 C, Gravimetric Method	371.20	mg/l	500	2000
13,	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	95.50	mg/I	2/8/	400
14.	Fluoride as F	APHA, 4500-F D, SPADNS Method	0.54	mg/l	1,0	1.5
15.	Nitrate as NO <sub>1</sub>	(S 3025 (P-34) ,Chromotropic Method	22.80	mg/l	:45	No Reluxation
16.	Iron as Fe	15 3025 (P-65)/2014(RA:2019)	0.38	mg/1	1.0	No refucation
17.	Aluminium as Al	18:3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.005 mg/l)	mg/f	0.03	0.2
18.	Bonin	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 mg/l)	Tigers.	0.5	2.4
19.	Chromium as Cr.	15i 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/l)	mg/l	0.05	No Relaxation

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

Sample	No. DMSPL/GW/NIO	M/03	Report No: DMSPL/GW/BICO/2403/00				
					Limits of IS:10500 -2012		
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Altermite Source	
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*HLQ(**LOQ 0.0005 mg/l)	mg/l	0.001	0.002	
31	Mineral Off	Clause 6 of IS:3025[Part 39]	*BLQ(**LOQ 0.1 mg/l)	mg/l	1.0	No Religation	
22	Anionic Detergents as MBAS	Annex K of IS 13428, IS 3025 (P-68)	*BLQ(**LOQ 0.05 mg/l)	mg/l	0.2	1.0	
23/	Residual free Chioxine	IS 3025 P-26, Ortho-toluiding Method	*BDL(**DL.0.15mg/l)	mg/I			
.24	Sodum as Na	APHA 3500 Na B, Flame Photometric Method	17.6	mg/l		-	
25	Potassium as K	APHA 3500 KB, Flame Photometric Method	3.50	mg/l	-	-	
26	Zine ar Zn	ES 3025 (P-65) 2014(RA-2019)	0.89	mg/L	.5	13	
27	Copper as Cu.	IS 3025 (P-65):2014(RA:2019)	0.23	mg/l	0.05	1.5	
28	Manganese as Mn	ES 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 mg/l)	mg/l	0.1	6.3	
29	Cadman as Cd	IS 3025 (P-65):2014(RA:2019)	*HLQ(**LOQ 0.002 mg/l)	mg/l	0.003	No Refaxation	
30	Lend as Pb	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 6.002 mg/l)	mg/l	0.01	No Relixation	
31.	Selamina in Se	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.001 mg/t)	mg/l	(0:0)	No Reluxation	
32	Anienic as As	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LO() 0.005 mg/l)	Tight.	0.01	No Reference	
33.	Mercury as Hg	IS 3025 (P-65):2014(RA:2019)	*BLQ*(**LOQ 0.0005 mg/l)	mg/1	0.001	No Relievation	
34.	Total Coliform	IS 1622,1981, RA-2019	<2	MPN/100ml	Shall not be de 100 ml		
35.	E Coli	IS 1622,1981, RA-2019	Absent	MPN/100ml	Shall not be de 100 ml	tectable in any	

Note: -\*HLQ-Below Limit of Quantification: \*\*LOQ-Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample Number:

DMSPL/GW/NIOM/04

APPROPRIATE TO A STATE OF THE PARTY OF THE P

M/a Nadidih Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Knira

Distt. Sundargarh, Odisha India.

Report No.:

DMSPL/GW/BICC0/2403/004

Format No.: Party Reference No.:

NIL

Reporting Date:

18/03/2024

Grunnd Water Level:

4.3 Mir.

12/03/2024

Sample Description:

Sample Location:

Sample Collected by:

Sampling and Analysis Protocol:

Name & Address of the Project:

Preservation:

Ground Water Sample

Village Jhirapani DMSPL Representative

18 3025 & APHA 23" Edition 2017

Ice Bay

Period of Analysis:

r criou of remaryan:

Receipt Date:

Sampling Date:

Sampling Quantity: Sampling Type: 10/03/2024 5.0 Ltr + 250ml

12/03/2024 18/03/2024

Grah

					Limits of 15:10500 -2012	
S. No.	Parameter	Parameter Test-Method  (at 25 °C) APHA [4500-11] B Electrometric Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Absence of Afternatz Source
1,	TO THE PARTY OF TH	APHA [4500-H] B Electrometric Mathod	7.85		6.5 to 8.5	No Relacation
2.	Colour	APHA ,2120 B, Visual Computison Method	*BLQ (**LOQ 1.0 Haten)	Hazen	.5	13
T	Turbidity	APHA, 2130 B, Nephiclametric Method	*BLQ (**LOQ 1.0 NTU)	NIB	1	5
(4E	Odour	APHA, 2150 B., Threshold Odour Meshod	Agreeable		Agreeable	Agrombie
5.	Timte	APHA , 21no ii, Threshold Test Method	DisAgreeable	14	Agrecable	Agreeable
6.	Total Rardness as CaCO <sub>2</sub>	APHA , 2340 C, EDTA Tazimetric Method	149.6	mg/L	200	600
7	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	41.20	mg/t	75	200
8	Alkalimity as CaCOs	APHA , 2320 B, Titrimetric Method	148.20	mg/l	200	600
9.	Chloride as CI	APHA, 4500-Ct B. Argentometric Method	85.12	mg/I	250	1000
10.	Cyanide as CN	APHA, 4500 CN: D	*BLQ(LOQ 0;02 mg/l)	mg/I	0.05	No Religation
H	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	1720	mg/I	31)	100
12.	Total Dissolved Solids	APITA , 2540 C, Gravimetric Method	356.20	img/I	500	2000
13	Sulphate as 504	APHA 4500 E Turbidimetric Method	53.10	mg/l	200	400
14.	Pluoride as F	APHA, 4500-F D, SPADNS Method	1.25	P.gmi	1.0	1.5
15	Nitrate as NO <sub>1</sub>	18 3025 (P-34) Chromotropic Method	25.20	mg/I	45.	No Relocation
16:	Iron as Fe	15 3025 (P-65):2014(RA:2019)	0.28	mg/l	1:0	No returnation
17.	Alaminium as Al	15 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ:0.005 mg/l)	mg/I	0.03	0.2
18_	Boron	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.01 nqc1)	mg/l	0.5	2.4
19	Chromium = Cr	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.002 mg/l)	mg/l	0.05	No Relaxation

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8126412491 = digcareminingsolution@gmail.com



Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample	No.: DMSPL/GW/S10	N5/94		Report No.	DMSPL/GW/I	HCO/2403/004
					Limits of 18:	10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Requirement (Acceptable) Limit	Permissible limit in the Albertee of Alternate Source
20.	Phonelic Compounds	APHA, 5530 C Chloroform Extraction Method	(Fight 2000/6/DOT++)(C13)+	mg/J	0.001	0.002
21	Mineral Cid	Clause 6 of IS:3025(Part 39)	*Ht.()(**E,OQ 0.1 mg/1)	tog/I	3.0	No Relaxation
.22.	Amonic Detergents as MBAS	Annex K of IS 13438, IS 3025 (P-68)	*BLQ(**LOQ 8.05 mg/l)	mg/l	0.2	3.0
23.	Residual free Chlorine	15.3025 P-26, Ontho-lottridine Method	*BDL(**Df. 0, 15mg/l)	mpl	æ	066
24	Sodium as Na	APHA,3500 Na B, Plame Photometric Method	18.79	mg/I	==	722
25	Potassium as K	APHA 3500 KB, Flame Photometric Method	4,65	1019/3	- 4	72
26.	Zinc si Zn	1S 3025 (P-65):2014(RA:2019)	2.30	mg/l	- 5	15
27.	Copper us Cu.	IS 3625 (P-65) 2014(RA-2019)	0.18	mg/1	0.03	1.5
28.	Мацииневе во Ми	TS 3025 (P-65):2014(RA:2019)	(Figur 10.0 QCLI**)QLIG*	rng/l	0.1	0.3
29	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	"BLQ(**LOQ 0.002 mg/l)	mg/l	0.003	No Relaxation
30.	Lead as Pb	IS 3025 (P-65);2014(RA-2019)	*8LQ(**LOQ 0.002 mg/l)	mig/I	0.01	No Relaxation
31	Selonium as Se	1S 3025 (P-65) 2014(RA-2019)	*BLQ(**1,OQ 0.001 mg/l)	mg/l	0.01	No Relaxation
32.	Arsenic us As	IS 3025 (P-65):2014(RA:2019)	*BLQ(**LOQ 0.005 mg/l)	mig/L	0.01	No Relaxation
33.	Moreury as Hg.	IS 3025 (P-65)/2014(RA-2019)	*BLQ (**LOQ 0.0005 mg/l)	mg/L	100.0	No Refuxation
34	Total Coliform	18 1922,1981, RA-2019	42	MPN/100ml	Shall not be descetable in an 100 ml sample	
35.	E. Culti	IS 1622, 1981, RA-2019	Absent	5/PN/100ml	Shall not be do	terrable in any

Note: - 4BLQ-Below Limit of Quantification, \*\*LOQ-Limit of Quantification





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

#### Test-Report

Sample No:

Name & Address of the

Sample Collected By:

Sample Description:

Sample Type:

Project:

DMSPL/AN/NIMM/01-01

M/s Nadidih Iron & Mn Mines,

Under ESL Steel Limited, (BICO) At Nadidib, PO - Koira

DMSPL Representative

Noise Level Monitoring

Ambient Noise Monitoring

Distt. Sundargarh, Odisha India.

Report No: Reporting Date: DMSPL/AN/2403/001-01

1" Mar. 2024 to 31" Mar. 2024

05/04/2024

Ref. No:

NIL

Monitoring Period: Equipment Used:

Sound Level Meter

Protocol Used:

15-9989

Parameter Required:

As per Govt, Standard Nadidih Iron Ore Mines

Customer Name:

Good Clear

Sample Condition:

RESULTS

Sr. No.	Location	Date	Latitude	Longitude	Day Time {dB(A)}	Night Time {dB(A)}
1	Near Mine office	03.03.2024	21°58'09" N	85°15'33" E	63	48.2
2	Near Mines Gate	08.03.2024	21°58'25" N	85°15°44" E	62.5	51,5
	Standard Limit	Industrial Ar	ea as per CPCB		75.0	70.0
3	Village Kenduhidi	12.03.2024	21/59'45" N	85°16'14" E	51.2	43.5
4	Village Badipada	17.03,2024	21°58'04" N	85°18'33" E	52.2	42.9
5	Village Jhirapani	21.03.2024	21°59'58" N	85°13′10″ E	49.8	42.0
6	Village Kashira	23.03.2024	21°55'10" N	85°15'20" E	.51.K	41.0
7	Upwind Direction	27.03.2024	21°58"14" N	85°15'22" E	54.6	42.2
8	Downwind Direction	30.03.2024	21°57′19″ N	85°13′34" E	53.5	43.10
	Stundard Limit	Residential A	rea as per CPCI	3	55.0	45.0

CPCB- Central Pollution Control Board

\*\* End of Report\*\*





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

Name & Address of Party:

DMSPL/NIOM/S/01

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarb, Odisha India.

Sample Description: Sampling Location:

Sample Collected by

Inside Mine Area

DMSPL Lab Representative

Sampling & Analysis Protocol:

15 2720 & USDA

Report No.:

DMSPL/S/BICO/2303/001

Format No.:

5.10 F-01

Party Reference No.:

NIL

Reporting Date:

Receipt Date: Sampling Date:

Type of Sampling: Sampling Quantity Depth of Sampling:

20/03/2023 Composite 2.0 Kg 30 cm

oved E

30/03/2023

24/03/2023

Packing Status:

Temp Senled

S. No.	Parameter	Protocul	Result	Unit
1.	pH (at 25 °C)	IS ; 2720 (P-26,1987)	8,15	-
2.	Conductivity	1S:14767-2000 RealTirmed 2006	0.35	mS/cm
3.	Soil Texture	USDA Method, 1968	Silty Learn	
4.	Color	USDA Method, 1968	Yellowish	
5.	Water holding capacity	USDA Method, 1968	22.20	.59
6.	Bulk density	USDA Method, 1968	1.20	gm/cc
7	Chloride as Cl	USDA Method, 1968	24.60	mg/I00gn
Х.	Calcium, as Ca:	USDA Method, 1968	31.30	mg/100gn
9	Sodium as Na	USDA Method, 1968	30,29	mg/100gm
10.	Potassium as K	USDA Method, 1968	61,20	kghee
1L	Organic Matter	IS:2720 (P-22, 1972)	0.38	.96
12.	Magnesium as Mg	USDA Method, 1968	10.60	mg/100gm
13.	Available Nitrogen as N	IS:14684, 1999	187.20	kg/hec
14:	Available Phosphorus	USDA, APITA-4500PC	33.50	kg/hoc
15.	Zinc as Zn	APHA-3630D, APHA-3111B	4.55	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	2.46	mg/100gm
17:	Chromium as Cr	APHA-3030D, APHA-3TITB	1.22	mg/100gs
18.	Lend as Ph	APHA-3030D, APHA-3111B	0.21	mg/100gm
19.	Cadmium as Cd	APBA-3030D, APHA-3111B	1,45	mg/100gn
20.	Copper as Cu	APHA-3030D, APHA-3111B	3.15	mg/100gn



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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample No:

DMSPL/AN/ST/01

Report No:

DMSPL/ST/2401/001

Name & Address of the

M/s Nadidih Iron & Mn Mines, Under ESL Steel Limited, (BICO) Format No.: Part Reference No.: 7.8 F-83 NIL

Project:

At Nadidih, PO - Koira

Distt, Sandargarh, Odisha India.

Reporting Date:

21.03.2024

15.63.2024

approved B

Sample Collected By:

DMSPL Representative Ambient Noise Monitoring Period of Analysis: Receipt Date:

15.03.2024 to 20.03.2024

Sample Description: Sample Type:

Noise Level Monitoring

Sample Description

General Information

Sample Location

Sample Collected by

Date of Sampling Sampling Duration (Minutes)

Stack Attached to Make of Stack Diameter of Stack (m)

Instruments calibration status Meteocological Condition Ambient Temperature-Ta (°C) Temperature of Stack Guses-Ts (°C) Volocity of Stack Gares (m/s) Flow rate of PM (LPM) Flow rate of Gas (LPM)

Sampling Condition. Protocol used

Stack Emission Monitoring

Mine Site

DM5PL Lab Representative

15.03.2024 42.0 Min DG Set MIS

9.30 Meter Caliberated Chem ilky 20.00 210.0 \$ .40

22.00 2.00 Isokinene 15 11255

#### RESULTS

Sr. No.	Test Parameters	Test Method	Results	Units	Limit as per CPCB
Ĺ	Particulate Matter (as PM)	1S11255(P-1), Gravimetric Method	40.10	mg/Nm <sup>5</sup>	75
2	Oxide of Nitrogen (as NOs)	ES 11255(P-7)	162.00	PPM	710
3	NMHC	DMSPL/ENVSTP/ST/FGA/01 Issue No. 01.01/1121	21.00	mg:Nm³	100
4	Sulpher Oxide (as SO2)	IS1 (255(P-2); Türimeirie Method	21.40	mg/Nm <sup>2</sup>	
5	Carbon Monocode (CO)	DMSPL/ENVSTP/ST/FGA/01 Insue No. 01/01/1121	27.20	/mg/5/m <sup>3</sup>	150

Note- Laboratory Standard Testing Procedure

\*\* End of Report\*\*

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/NIOM/SW/01

Name of the Project:

M/s Nadidih Iron Ore Mines,

Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Sample Description: Sampling Location:

River Sample (Near Mines Upstream )

Sample Collected by: Preservation:

Sampling and Analysis

Protocol:

Surface Water Sample

DMSPL Lab Representative

fee Box

APHA & IS, 23rd Edition 2017

Report No.:

DMSPL/SW/BICO/2403/001

Format No.:

7.8 F-01

Party Reference No.: NIL

Reporting Date:

18/03/2024

Period of Analysis:

12/03/2024-18/03/2024

Receipt Date:

12/03/2024

Sampling Date:

10/03/2024

Sampling Quantity: Sampling Type:

2.0 Ltr + 250 mi.

Composite

S. No.	Parameter	Test-Method	Result	Unit
J.	pH (at 25 °C)	APHA ,4500-H* B Electrometric Method	7.50	-
2.	Colour	APHA 2120 B, Visual Comparison Method	22.3	Haster
3,	Turbidity	APHA, 2130 B, Nephlelometric Method	<	NTU
4.	Odour	APHA, 2150 B., Threshold Test Method	Agreeable	-
5.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	92,0	mg/l
60	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	22.4	mg/l
7.:	Alkalinity on CaCO <sub>2</sub>	APHA , 2320 B, Titrimetric Method	76.6	mg/L
£,	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	44.3	mgT
9	Total Residual Chlorine	IS 3025 P-26, Ortho-toluidine Method	*BDL(**Di. 0.15mg/l)	mg/I
10.	Cyanide at CN	APHA, 4500 CN D, Barbituric Acid Method	*BDL(**DL 0.02 mg/l)	nig/l
H.	Маулетит ак Ма	APHA , 3500 Mg B, Calculation Method	5.56	rog/1
12.	Total Dissolved Solids	APHA., 2540 C. Gravimetric Method	263.0	mu/I
13.	Total Suspended solids	APHA 2540 D Gravimetric Method	27.8	mg/i
14.	Dissolved Oxygen	APHA,4500 O B Todometric Method	7.3	ngA
15.	Sulphide	IS 3025 (P-29):2022	4.5	Egm.
16.	Fluoride as F	APHA, 4500-P D, SPADNS Method	0.26	mgA
17.	BOD (3 Days at 27°C)	APHA, 5210 C / IS 3025, P-44	16.20	mg/i
[8]	COBullan	APHA, 5220 B. Open Reflux Method	38.30	mg/l

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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

		Test-Report		
Sample	No: DMSPL/NIOM/SW/01	Report No.: DMSPL	/SW/BICO/2403/0	
S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity (at 25 <sup>h</sup> C)	APHA, 2510 B, Conductivity Meter Method	0.45	mS/cm
20:	Nitrate as NO <sub>3</sub>	1S 3025 (P-34) .Chromotropic Method	6.12	mg/I
ZL	Sedium as Na	APHA,3500 Na B, Flame Photometric Method	12.55	ngs
22.	Potassium as K	APHA 3500 K B, Flame Photometric Method	6.26	Pages
23.	Iron as Fe	IS 3025 (P-65):2014(RA:2019)	0.45	mg/i
24.	Aluminium as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/I
25.	Buron	IS 3025 (P-65):2014(RA:2019)	*8DL(**DL 0.002 mg/l)	mg/l
26.	Hexavalent Chromium as Cr	IS 3025 (P-65):2614(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l
27.	Phenolic Compounds	APHA, \$530 C Chloroform Extraction Method	*BDL(**DL 0.0004mg/l)	mg/l
28.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.1 mg/l)	mg/l
29.	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.05 mg/l)	mg/i
30.	Zinc as Zn	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.05 mg/l)	mg/)
31.	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.1 mg/l)	mg/l
32.	Manganese as Mis	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.01 mg/l)	mg/l
33.	Cadmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l
34.	Temperature	IS 3025 (P-9):2023	22.50	mg/l
35.	Oil & Grease	IS 3025 (P-39)/2021	*BDL(**DL 2.0 mg/l)	mg/l
36.	Free Ammonia	IS 3025 (P-34):1988	*BDL(**DL 0.20 mg/l)	mg/l
37.	Total kjeldhal Nitzogen	IS 3025 (P-34):1988	*BDL(**DL 0:20 mg/l)	mg/l
38,	Nickel	Standard Operating Procedure	*BDL(**DL 0.02 mg/l)	mg/l
39.	Vanadium	Standard Operating Procedure	*BDL(**DL 0.02 mg/l)	mjt/fi
40.	Ammonical Nitrogen	IS 3025 (P-34);1988	*BDL(**DL 0.20 mg/l)	mg/l
41.	Total Coliform	IS 1622,1981, RA-2019	279	MPN/100ml
42.	Feeal Coliform	IS 1622,1981, RA-2019	162	MPN/100ml

<sup>\*</sup>BDL-Below Detection Limit, \*\*DL- Detection Limit.





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Plot No. 672/18, First Floor, Khandsa Road, Om Nagar, Gurugram-122001 (HR) ISO-9001/ISO-14001/ISO-45001/NABL Accredited Lab

### Test-Report

Sample Number:

DMSPL/NIOM/SW/02

Name of the Project:

M/s Nadidili Iron Ore Mines, Under ESL Steel Limited, (BICO)

At Nadidih, PO - Koira

Distt. Sundargarh, Odisha India.

Surface Water Sample Sample Description:

Sampling Location:

River Sample (Near Mines Downstream )

Sample Collected by:

DMSPL Lab Representative

Preservation:

Sampling and Analysis Protocol:

Ice Box

APHA & IS, 23rd Edition 2017.

Report No.:

DMSPL/SW/BICIO/2403/002

Fermat No.:

7.8 F-01

Party Reference

NIL

No.:

Reporting Date:

18/93/2024

Period of Analysis:

12/03/2024-18/03/2024

Receipt Date:

12/03/2024

Sampling Date:

10/93/2024

Sampling Quantity: 2.0 Ltr + 250ml.

Sampling Type:

Composite

Approved B

5. No.	Parameter	Tent-Method	Result	Unit
1.	pH (at 25 °C)	APHA (4500-H) B Electrometric Method	7,60	-
2.	Colour	APHA 2120 B, Visual Comparison Method	24.2	Hazer
3,	Turbidity	APHA, 2130 B, Nephletometric Method	<1	NTU
4.	Odour	APIIA, 2150 B., Threshold Test Method	Agreeable	-
5.	Total Haminess as CaCO <sub>2</sub>	APHA , 2340 C, EDTA Titrimetric Method	97.30	mg/l
6.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	26.5	mg/l
7.	Alkalinity as CaCOs	APHA , 2320 B, Titrimetric Method	71.20	ngA
8.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	43.10	mg/l
9.	Total Residual Chlorine	IS 3025 P-26, Ortho-toluidine Method	*BDL(**DL_0.15mg/l)	mg/l
10	Cyanide as CN	APHA , 4500 CN: D, Barbituric Acid Method	*BDL(**DL 0.02 mg/l)	Ing/I
11.	Magnesium us Mg	APHA , 3500 Mg B. Calculation Method	5,45	mg/t
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	252.20	mg/l
13.	Total Suspended solids	APHA,2540 D. Gravimetric Method	17.5	771g/7
14.	Dissolved Oxygen	APHA,4500 O.B. Indometric Method	6.8	mg/1
15.	Sulphide	IS 3025 (P-29):2022	30.30	mg/t
16.	Fluoride as F	APHA, 4500-P.D, SPADNS Method	.0.45	mg/I
17.	BOD (3 Days at 27°C)	APITA, 5210 C / 1S 3025,P-44	12.30	ngd
18	COD	APHA, 5226 B, Open Reffux Method	34.50	.mg/l



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### Test-Report

Sample	No.: DMSPL/NIOM/SW/02	Report No.: DMSPL	/SW/BICO/2403	
S. No.	Parameter	Test-Method	Result	Unit
19,	Conductivity (at 25 °C)	APHA, 2510 B, Conductivity Meter Method	0.42	mS/cm
20.	Nitrate as NO <sub>2</sub>	IS 3025 (P-34) ,Chromotropic Method	4.45	mg/\
21,	Sodium as Na	APHA,3500 Na B, Flame Photometric Method	22.20	mg/l
22.	Potassium as K	APHA 3500 KB, Flame Photometric Method	5.60	mg/T
23.	Iron as Fe	1S-3025 (P-65):2014(RA:2019)	*BDL[**DL 0.002 mg/l)	mg/l
24.	Aluminium as Al	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l
25/	Boron	IS 3025 (P-65):2014(RA:2019)	0.45	mg/l
26.	Hexavalent Chromium as Cr	IS 3025 (P-65):2014(RA:2019)	*BDL(**DL 0.002 mg/l)	mg/l
27.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL-0.0004mg/l)	mg/l
28.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.1 mg/l)	mg/l
29_	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**(N_0.05 mg/l)	mg/l
30.	Zinc as Zn	IS 3025 (P-65);2014(RA:2019)	*BDL(**DL 0.05 mg/l)	mg/l
31_	Copper as Cu	IS 3025 (P-65):2014(RA:2019)	*BDL(**Di. 0.1 mg/l)	mg/1
32.	Manganese as Mn	IS 3025 (P-65):2014(RA:2019)	*BDL(**()L-0.01 mg/l)	mg/l
33.	Cardmium as Cd	IS 3025 (P-65):2014(RA:2019)	*BDf.(**Dt. 0.002 mg/f)	mg/I
34.	Temperature	1S 3025 (P-9):2023	22.10	mg/l
35.	Oil & Grease	IS 3025 (P-39):2021	*BDL(**DL 2.0 mg/l)	mg/l
36.	Free Ammonia	IS 3025 (P-34):1988	*BDL(**DL 0.20 mg/l)	mg/l
37.	Total kjeldhal Nitrogen	IS 3025 (P-34):1988	*BDL(**DL 0.20 mg/l)	mg/l
38.	Nickel	Standard Operating Procedure	*BDL(**DL 0.02 mg/l)	mg/l
39,	Vanadium	Standard Operating Procedure	*BDL(**DL 0.02 mg/l)	mg/l
40.	Ammonical Nitrogen	IS 3025 (P-34):1988	*BDL(**DL 0.20 mg/l)	mg/l
41.	Total Coliform	IS 1622,1981, RA-2019	250	MPN/100m
42.	Fecal Coliform	IS 1622,1981, RA-2019	165	MPN/100m3

<sup>\*</sup>BDL-Below Detection Limit, \*\*DL- Detection Limit





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