

JAYASWAL NECO INDUSTRIES LTD

CIN : L28920MH1972PLC016154

(STEEL PLANT DIVISION)

SILTARA GROWTH CENTRE, BILASPUR ROAD, SILTARA, RAIPUR - 493111 (C.G.) - INDIA

PH. : +91-7721-264241, 264263 Fax : +91+7721-264279, 264240 Email : spd@necoindia.com



JNIL/ENV/Metabodeli/25 Ha./2024/80

Date : 31/05/2024

The Regional Officer,
Integrated Regional Office, MoEF & CC,
Govt. of India, Aranya Bhawan, North Block,
Sector-19, Nava Raipur, Atal Nagar, Chhattisgarh.

Sub:- Six Monthly EC Compliance Report for the period 1st Oct, 2023 to 31st March, 2024 of Metabodeli Open Cast Iron Ore Mine with production capacity 1.0 Million TPA, located near village - Metabodeli, Tehsil-Pakhanjur, District-Kanker (Chhattisgarh).

Ref :- 1. E.C. Vide Order No.64/SEIAA, C.G./Mine/Kanker/557 Naya Raipur dated.17/04/2017.
2. Amendment EC Vide Order No.338/SEIAA, C.G./Mine/Kanker /557, Naya Raipur Dated.11/07/2017.

Sir,

This has with reference to the above referred letter on the subject matter. Please find enclosed herewith the Six-Monthly Environmental Clearance Compliance Report of Metabodeli Iron Ore Mine, village - Metabodeli, Tehsil-Pakhanjur, District-Kanker (Chhattisgarh) for the period **1st Oct, 2023 to 31st March, 2024**. We had also tried to submit online Six-Monthly EC compliance report on Parivesh 2.0 but it could not be submitted online due to some unknown problem on Parivesh Portal.

This is for your kind information please.

Thanking you,

Yours faithfully,
For Jayaswal Neco Industries Ltd.

Susanta Kumar Moitra
Associate Director

Encl : As above.

CC to :


1. The Member Secretary, Chhattisgarh Environmental Conservation Board, Paryavas Bhavan, North Block Sector-19, Atal Nagar, Raipur(C.G.) 490 099.	2. The Zonal Officer, Central Pollution Control Board, Sahkar Bhawan, 3 rd Floor, North T.T. Nagar, Bhopal(M.P.).
3: The MS – SEAC, Chhattisgarh, Paryavas Bhavan, North Block Sector-19, Naya Raipur(C.G.) 490 099.	

Compliance Status of Environment Clearance

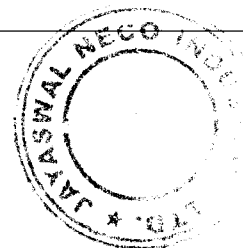
(Period from 1st Oct, 2023 to 31st March, 2024)

Capacity & Location:- Metabodeli Opencast Iron Ore Mine with production capacity 1.0 Million TPA, issued vide letter 64/SEIAA, C.G./Mine/Kanker/557 Naya Raipur dated.17/04/2017 & its amendment letter No. 338/SEIAA, C.G./Mine/Kanker /557, Naya Raipur Dated.11/07/2017 located near village - Metabodeli, Tehsil-Pakhanjur, District-Kanker(Chhattisgarh).

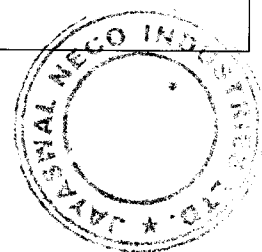
1. **EC Letter No:-** 64/SEIAA, C.G./Mine/Kanker/557 Naya Raipur dated.17/04/2017.
2. **EC amendment Letter No:-** 338/SEIAA, C.G./Mine/Kanker/557 Naya Raipur dated.11/07/2017.

i)	Benification of iron ore (wet or dry) shall not be carried out by the project proponent within lease area.	Noted for compliance.
ii)	Top soil shall be stacked properly with proper slope with adequate safeguards. Plantation shall be done on it after storing the topsoil in barrier zone.	No topsoil generated, as the mine itself is a rocky hill although we have earmarked dump site for the same and will be utilized as and when top soil is encountered.
iii)	Over burden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining.	Over burden earmarked area for the storage of over burden. Overburdens in the form of fines are getting generated in the mine which is stored in the earmarked place and will be further used for back filling in the region.
iv)	Project authority shall provide adequate facility for proper treatment of industrial effluent (if any) and domestic effluent. Domestic effluent shall be treated in well-designed septic tank and soak pits. In case of any failure of effluent treatment arrangement, it shall be immediate rectified or same alternate arrangement shall be provided. Treated effluent shall be utilized either in process or for plantation purposes within plant premises only. Project authority shall make arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. No effluent shall be discharged out of mine premises under any circumstances. Hence zero discharge condition outside the premises shall be maintained all the time. Project authority shall ensure the treated effluent quality within standard prescribed by Ministry of Environment, Forest and Climate Change, Government of India. Industrial wastewater shall conform to the standards prescribed under GSR 422 (E) dated.19 th May, 1993 and December, 1993 or as amended form	<p>There is no industrial waste water generated from the mining operation. Domestic effluents are collected in soak pits. No effluent discharged out of mine premises. Please be informed that the area is highly Naxal infected and the mining is done only in general shift hence domestic waste water also not generated. However necessary precaution will be taking care.</p> 

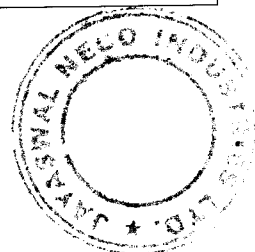
	time to time.	
v)	Any liquid effluent what so ever generated from mining activities shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/plantation. All the industrial effluent generated shall be re-circulated/reused after proper treatment. Project authority shall provide sewage treatment system of adequate capacity for treatment of domestic effluent generated. The untreated/treated domestic effluent shall not be discharge in to the river or any surface water bodies. The treated domestic effluent shall be used for plantation purpose after proper disinfection. The concept of zero discharge shall be maintained all the time except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.	There is no industrial waste water generated from the mine operation. Domestic effluent being treated in Soak pit in the mine. No effluent discharged out of mine premises. Hence zero discharge condition outside the premises being maintained. Please be informed that the area is highly Naxal infected and the mining is done only in general shift hence domestic waste water also not generated. However necessary precaution will be taking care.
vi)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to SEIAA, Chhattisgarh, Central Ground Water Authority and Regional Director Central Ground Water Board.	Monitoring of Ground Water Report for the month of Nov, 2023 & Jan, 2024 is attached here with as Annexure-I .
vii)	Prior permission from the competent authority shall be obtained for drawl of ground water if any.	Permission obtained of 50 KL/ day from CGWA.
viii)	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Necessary conservation measures to augment ground water resources in the area being taken.
ix)	Adequate no of garland drains and check dams shall be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected shall be utilised for watering the mine area roads, green belt development etc. after proper treatment. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Garland drain & siltation pit has been constructed to arrest silt and sediment flows from soil and mineral dumps in the mine during rainy season.
x)	Project authority shall provide adequate air pollution control arrangements at all point and non point sources(if any). Project authority shall install suitable & effective air pollution control equipment's at all transfer points, junction points etc. also. All the conveying system, transfer point, junction point etc. shall be covered. Adequate provision shall be made for sprinkling of water at strategic locations to ensure dust does not get air borne. For controlling fugitive dust, regular sprinkling of water in vulnerable areas shall be	Adequate air pollution control arrangements done. All transfer points and conveyor belt covered to prevent dust emission. Green net surrounding Crusher & Screen as well as beside the roads. Fogging and water sprinkling system are installed and in operation for controlling the dust emission.



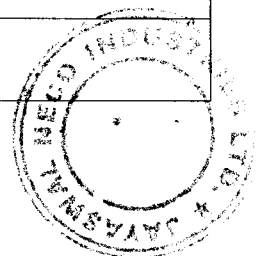
	<p>ensured. All air pollution Control systems shall be kept in good running conditions all the time and failure (if any), shall be immediately rectified without delay otherwise similar alternate arrangement shall be made. The emission of pollutants from any point source (if any) shall not exceed the following limit :-</p> <p>Particulate Matter : 50 mg/Mm³ (Fifty Milligram per Normal Cubic Meter)</p>	
xi)	<p>Four ambient air quality – monitoring stations shall be established in the core zone as well as in the buffer zone for PM_{2.5}, PM₁₀, SO₂, NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.</p>	<p>Since it is an operating mine air monitoring stations are established and data of air quality is monitored on regular intervals and submitted regularly. Air quality monitoring report (1st Oct, 2023 to 31st March, 2024) is enclosed for your reference - Annexure-A.</p>
xii)	<p>Data on ambient air quality (PM_{2.5}, PM₁₀, SO₂ and NO_x) should be regularly monitored. The data so collected shall be properly analysed and submitted to the Chhattisgarh Environment Conservation Board, Naya Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Jagdalpur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment, Forest and Climate Change, Government of India, Nagpur in every six months.</p>	<p>Since it is an operating mine air monitoring stations are established and data of air quality is monitored on regular intervals and submitted regularly. Last Air quality monitoring report for the period 1st April, 2023 to 30th Sept, 2023 is submitted to all concern govt. offices vide our letter No.JNIL/ENV/Metabodeli/25 Ha. / 2023/162 Dated.27/11/2023.</p>
xiii)	<p>Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.</p>	<p>Crusher and Screen unit are covered with green net, and water sprinkling and fogging system for control of dust emission are installed and operational.</p>
xiv)	<p>Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of minerals. The vehicles shall be covered with a tarpaulin and shall not be overloaded.</p>	<p>Only covered vehicles used for transportation of minerals.</p>
xv)	<p>Measures shall be taken for control of noise levels in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs/muffs.</p>	<p>Noise monitoring being carried. Air quality monitoring report for the period 1st Oct, 2023 to 31st March, 2024 is enclosed for your reference - Annexure-B.</p>
xvi)	<p>A Final Mine Closure Plan shall be submitted to the SEIAA, Chhattisgarh, 5 years in advance of final mine closure for approval.</p>	<p>Progressive Mine closure plan approved by IBM, has been submitted to SEIAA vide letter no. JNIL/ENV/Metabodeli(25 Ha) / 2018 /296 dated 04.10.2018.</p>



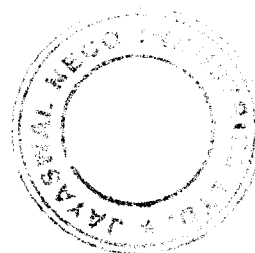
xvii)	Plantation shall be raised by planting the native species around the ML area, roads, OB dump sites etc. in consultation with the local DFO / Agriculture Department.	1250 Nos. saplings have planted in safety zone and OB dump area during monsoon, 2023 Saplings plant-Gulmohar, karanj, mango, black cirrus.
xviii)	No change in mining technology and scope of working shall be made without prior approval of the SEIAA, Chhattisgarh.	Noted.
xix)	No change in calendar plan including excavation, quantum of mineral iron ore shall be made.	Noted.
xx)	Conversation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with local forest and wildlife department.	Noted.
xxi)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Orientation training & information on safety and occupational health aspects are given to workers. Appropriate PPE's has been given to all workers. Regular health checking of the workers is undertaken.
xxii)	The project authorities shall inform to SEIAA, Chhattisgarh regarding date of financial closures and the date of start of land development work.	The mine is in operation since 2002, and information in this regard had been submitted to MOEF.
xxiii)	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the SEIAA, Chhattisgarh.	Fund earmarked for environments protection measures have been kept in separate account. The expenditure for the period from 1 st Oct, 2023 to 31 st March, 2024 Environmental Expenditure Rs.47,36,546.14. In CSR expenses for the period from 1 st Oct, 2023 to 31 st March, 2024 Rs.1,54,09,214.86
xxiv)	Occupational health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Regular health checkup of the workers has been done to observe any contractions due to exposure of dust.
xxv)	Project authority shall establish an environmental management cell to carry out function relating to environmental management under the supervision of senior executive who shall directly report to the head of organization. A full-fledged laboratory with qualified	Complied centralized environment cell with full-fledged laboratory is established at Bhanupratappur Office and Steel Plant Division Raipur for monitoring and analysis



	technical/scientific staffs to monitor the in fluent, effluent, ground water, surface water, soil, stack emission and ambient air quality etc. shall be provided.	of all the parameters.
xxvi)	The issuance of this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does not authorise any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws or regulations.	Noted.
xxvii)	SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and make further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	Noted.
xxviii)	Local persons shall be given employment during construction and operation of the plant.	Being Complied.
xxix)	The Project proponent shall advertise in at least two local news papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Chhattisgarh Environment Conservation Board and may also seen at Website of SEIAA, Chhattisgarh at www.seiaacg.org .	EC advertised on two new papers name Navbharat and Haribhumi on 18.04.2017.
xxx)	Half yearly report on the status of implementation of the stipulated conditions and environment safeguards shall be submitted to the Chhattisgarh Environment Conservation Board, Naya Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Jagdalpur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment, Forest and Climate Change, Government of India, Nagpur.	Last half year reports submitted vide our letter No.JNIL/ENV/Metabodeli / 25 Ha. / 2023 /162 Dated. 27/11/2023.
xxxi)	Regional Office of the Ministry of Environment, Forest and Climate Change, Government of India at Nagpur shall monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Necessary has been submitted to RO- MoEF & CC, Raipur.
xxxii)	Full Cooperation shall be extended to the Scientists/Officers from the SEIAA, Chhattisgarh,	Noted.

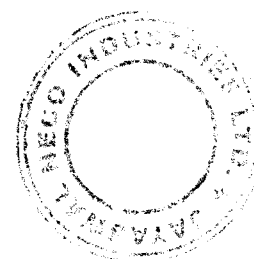


	Ministry of Environment, Forest and Climate Change, Government of India/Regional Office, Ministry of Environment, Forest and Climate Change, Government of India, Nagpur/CPCB/Chhattisgarh Environment Conservation Board, who would be monitoring the compliance of environment status.	
xxxiii)	In case of any deviation or alteration in the proposed project from those submitted to this SEIAA, Chhattisgarh for clearance, a fresh reference should be made to the SEIAA, Chhattisgarh to assess the adequacy of the condition(s) imposed and to add additional environment protection measures required, if any. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, Government of India/SEIAA, Chhattisgarh.	Noted.
xxxiv)	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Noted.
xxxv)	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Noted.
xxxvi)	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 197, the Air(Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986 and rules there under, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Noted.
xxxvii)	Chhattisgarh Environment Conservation Board shall display a copy of the Clearance letter at the Regional Office, District Trade and Industries Center and Collector's Office/Tehsildars Office for 3 days.	EC letter has been displayed in compliance to this condition.
xxxviii)	Any appeal against this environmental clearance shall lie with the National Green Tribunal, If preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted.



**Amendment Environment Clearance Compliance report vide order No.338/SEIAA,
C.G./Mine/Kanker/557, Naya Raipur Dated.11/07/2017.**

S.No	Condition	Compliance
1	The capacity of Crushing Unit (Primary and Secondary) and Double Decker Power Screen Unit shall not be more than 150 TPH and 250 TPH respectively.	Complied.
2	For Air Pollution Control in Crushing & Screening Unit, Industry shall install bag filter with suction Hoods. For Control of Fugitive dust emission in Crushing & Screening unit, at transfer points / Junction points fogging system shall be provided and it shall be covered with green net.	Crusher and Screen unit fully covered and have in built water sprinkling / fogging system for control of dust emission. All transfer points and conveyor belt covered to prevent dust emission.
3	Wind breaking wall shall be constructed in the Crushing & Screening Unit area.	Crusher and Screen unit are covered with green net, and water sprinkling and fogging system for control of dust emission are installed and operational.
4	Ensure to control the particulate matter emission within 50 Mg/Nm ³ .	We are doing mining of Iron Ore only, hence there is no any other process involve. Only D.G. set is provided there for power backup. D.G. Set monitoring report carried out by NABL Accredited Lab is enclosed for your reference.





HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer TO, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village - Chargaon, District- Kanker, 494635		REPORT NO.	UES/TR/23-24/06373	
		LAB REF NO.	UES/23-24/W/012151	
		DATE OF SAMPLING	09/11/2023	
		DATE OF RECEIPT	10/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
Customer Sample Id / Sampling Location	Chargaon Village Hand Pump	CUSTOMER REF. NO.	4200002664	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr.	

REPORT NO.: 06373

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
A	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	Odour	-	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.4°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.11
4	Taste	-	IS 3025 (part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	1.26
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	167.0
B	General Parameters concerning substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS 3025 (part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025 (part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	23.25
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	28.9
9	Copper (as Cu)	mg/L	IS 3025 (part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025 (part-60)	1	1.5	0.20
11	Free Residual	mg/L	IS 3025:(Part-26)	0.2	1	N.D.



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Name & Address Of The Customer TO, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village – Chargaon, District- Kanker, 494635		REPORT NO.		UES/TR/23-24/06373	
		LAB REF NO.		UES/23-24/W/012151	
		DATE OF SAMPLING		09/11/2023	
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		DATE OF REPORT		15/11/2023	
		DATE OF ANALYSIS		START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS					
Customer Sample Id / Sampling Location	Chargaon Village Hand Pump	CUSTOMER REF. NO.	4200002664		
Sample Type	Ground Water	Sample Condition At Receipt	Ok		
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist		
Other Details	Sealed	Quantity Received	Approx 5 Ltr.		

REPORT NO.: 06373

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
A	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	Odour	-	IS 3025(Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.4°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.11
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	1.26
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	167.0
B	General Parameters concerning substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	23.25
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	28.9
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.20
11	Free Residual	mg/L	IS 3025:(Part-26)	0.2	1	N.D.



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REPORT NO.: 06373

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
	Chlorine					
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.23
13	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	4.37
14	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	1.96
17	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	8.65
21	Sulphide (as H ₂ S)	mg/L	IS 3025:(Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	66.0
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	76.0
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
C. Parameters concerning toxic substances:-						
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
7	Polychlorinated biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	IS 3025(part-52)	0.05	No Relaxation	N.D.
11	Trihalomethanes:					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.



Ultimate
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HDD-272, Phase III - Near JP Chowk
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REPORT NO.: 06373

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
b)	Dibromochloromethane	mg/L	APHA 6232	0.1	No Relaxation	N.D.
c)	Bromodichloromethane	mg/L	APHA 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	APHA 6232	0.2	No Relaxation	N.D.
12	Total Coliform	MPN/100ml	IS: 1622:1981:RA:2019	-	-	Absent
13	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019	-	-	Absent

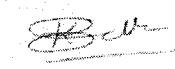
Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE*Terms & conditions*

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- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
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For ULTIMATE ENVIROLYTICAL SOLUTIONS


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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
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Name & Address Of The Customer To, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village - Chargaon, District- Kanker, 494635		REPORT NO.	UES/TR/23-24/06374	
		LAB REF NO.	UES/23-24/W/012152	
		DATE OF SAMPLING	09/11/2023	
		DATE OF RECEIPT	10/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
Customer Sample Id / Sampling Location	Metabodeli 25 ha Near Solar Pump	CUSTOMER REF. NO.	4200002664	
Sample Type	Ground Water	Sample Condition At Receipt	Ok	
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr.	

REPORT NO.: 06374

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
A	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	Odour	-	IS 3025(Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.4°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	6.83
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.45
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	114
B	General Parameters concerning substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	19.24
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	29.9



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REPORT NO.: 06374

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.12
11	Free Residual Chlorine	mg/L	IS 3025:(Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.21
13	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	7.78
14	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	2.27
17	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	12.77
21	Sulphide (as H ₂ S)	mg/L	IS 3025:(Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	50.0
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	80.0
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
C. Parameters concerning toxic substances:-						
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.



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REPORT NO.: 06374

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
7	Polychlorinated biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	IS 3025(part-52)	0.05	No Relaxation	N.D.
11	Trihalomethanes:					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.
b)	Dibromochloromethane	mg/L	APHA 6232	0.1	No Relaxation	N.D.
c)	Bromodichloromethane	mg/L	APHA 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	APHA 6232	0.2	No Relaxation	N.D.
12	Total Coliform	MPN/100ml	IS: 1622:1981:RA:2019	-	-	Absent
13	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019	-	-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

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-----End of the test report-----



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
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Name & Address Of The Customer To, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village – Chargaon, District- Kanker, 494635		Report No	UES/TR/23-24/06375	
		Lab Ref No	UES/23-24/W/012153	
		Date of Sampling	09/11/2023	
		Date of Receipt	10/11/2023	
		Date of Report	15/11/2023	
		Date of analysis	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
CUSTOMER SAMPLE ID	CHARGAON RIVER UP-STREAM	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION	
SAMPLE TYPE	SURFACE WATER	SAMPLE CONDITION AT RECEIPT	OK	
LATITUDE	20°01'26.9" N	LONGITUDE	80°59'30.48" E	
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER	
OTHERS DETAILS	SEALED	QUANTITY RECEIVED	APPROX 3 LTR.	

REPORT NO.: 06375

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A.	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	15.0
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.22
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	37.89
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	236.0
B.	General Parameters Concerning Substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	10.42
7	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	14.9
8	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	0.11
9	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.12
10	Free Residual Chlorine	mg/L	IS 3025:(Part-26)	0.2	1	N.D.,
11	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.32
12	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	11.66
13	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.


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REPORT NO.: 06375

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	3.88
15	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
16	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	27.32
17	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025: (Part-23)	200	600	50.0
18	Total Hardness (as CaCO ₃)	mg/L	IS 3025: (Part-21)	200	600	74.0
19	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
20	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58):2006, RA 2012	-	-	12
21	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44):1993 RA 2014	-	-	3.7
22	Dissolved oxygen as DO	Mg/L	IS:3025: (Part-44):1993 RA 2014	-	-	6.6
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
3	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
4	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
5	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
6	Chromium (as Cr)	mg/L	IS 3025(part-52)	0.05	No Relaxation	N.D.
F. Microbial Parameters						
1	Total Coliform *	MPN/100ml	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml Sample		33
2	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019			14

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
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Name & Address Of The Customer To, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village – Chargaon, District- Kanker, 494635		Report No	UES/TR/23-24/06375	
		Lab Ref No	UES/23-24/W/012153	
		Date of Sampling	09/11/2023	
		Date of Receipt	10/11/2023	
		Date of Report	15/11/2023	
		Date of analysis	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
CUSTOMER SAMPLE ID	CHARGAON RIVER UP-STREAM	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION	
SAMPLE TYPE	SURFACE WATER	SAMPLE CONDITION AT RECEIPT	OK	
LATITUDE	20°01'26.9" N	LONGITUDE	80°59'30.48" E	
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER	
OTHERS DETAILS	SEALED	QUANTITY RECEIVED	APPROX 3 LTR.	

REPORT NO.: 06375

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A.	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	15.0
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.22
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	37.89
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	236.0
B.	General Parameters Concerning Substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	10.42
7	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	14.9
8	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	0.11
9	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.12
10	Free Residual Chlorine	mg/L	IS 3025:(Part-26)	0.2	1	N.D.
11	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.32
12	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	11.66
13	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.



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REPORT NO.: 06375

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	3.88
15	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
16	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	27.32
17	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025: (Part-23)	200	600	50.0
18	Total Hardness (as CaCO ₃)	mg/L	IS 3025: (Part-21)	200	600	74.0
19	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
20	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58):2006, RA 2012	-	-	12
21	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44):1993 RA 2014	-	-	3.7
22	Dissolved oxygen as DO	Mg/L	IS:3025: (Part-44):1993 RA 2014	-	-	6.6
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
3	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
4	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
5	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
6	Chromium (as Cr)	mg/L	IS 3025(part-52)	0.05	No Relaxation	N.D.
F. Microbial Parameters						
1	Total Coliform *	MPN/100ml	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml Sample		33
2	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019			14

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviron@gmail.com

Name & Address Of The Customer To, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village – Chargaon, District- Kanker, 494635 S		Report No	UES/TR/23-24/06376	
		Lab Ref No	UES/23-24/W/012154	
		Date of Sampling	09/11/2023	
		Date of Receipt	10/11/2023	
		Date of Report	15/11/2023	
		Date of analysis	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
CUSTOMER SAMPLE ID	CHARGAON RIVER DOWN-STREAM	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION	
SAMPLE TYPE	SURFACE WATER	SAMPLE CONDITION AT RECEIPT	OK	
LATITUDE	20°02'10.25" N	LONGITUDE	80°00'36.10" E	
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER	
OTHERS DETAILS	SEALED	QUANTITY RECEIVED	APPROX 3 LTR.	

REPORT NO.: 06376

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A.	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	15.0
2	Odour	-	IS 3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.28
4	Taste	-	IS 3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025:(Part-10)	1	5	51.03
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	242.0
B.	General Parameters Concerning Substances undesirable in excessive amounts					
1	Aluminium (as Al) *	mg/L	IS 3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS 3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	13.63
7	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	16.9
8	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	0.13
9	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.11
10	Free Residual Chlorine	mg/L	IS 3025:(Part-26)	0.2	1	N.D.
11	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.28
12	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	10.69
13	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
14	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	5.73


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REPORT NO.: 06376




TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
15	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
16	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	25.65
17	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	58.0
18	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	78.0
19	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
20	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	-	-	16
21	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	-	-	4.6
22	Dissolved oxygen as DO	Mg/L	IS:3025:(Part-44):1993 RA 2014	-	-	6.4
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
3	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
4	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
5	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
6	Chromium (as Cr)	mg/L	IS 3025(part-52)	0.05	No Relaxation	N.D.
F. Microbial Parameters						
1	Total Coliform	MPN/100ml	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml Sample		34
2	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019			17

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

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-----End of the test report-----



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Name & Address Of The Customer TO, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur, Village - Chargaon, District- Kanker, 494635		REPORT NO.	UES/TR/23-24/08227
		LAB REF NO.	UES/23-24/W/015864
		DATE OF SAMPLING	05/01/2024
		DATE OF RECEIPT	06/01/2024
		DATE OF REPORT	10/01/2024
		DATE OF ANALYSIS	START: 06/01/2024 - END: 10/01/2024
SAMPLE DETAILS			
Customer Sample Id / Sampling Location	Chargaon Village Hand Pump	CUSTOMER REF. NO.	4200002664
Sample Type	Ground Water	Sample Condition At Receipt	Ok
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx 5 Ltr.

REPORT NO.: 08277

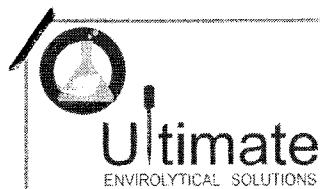
TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
A	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
2	Odour	-	IS:3025: (Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.4°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	7.24
4	Taste	-	IS:3025: (part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS:3025: (Part-10)	1	5	1.12
6	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	149.0
B	General Parameters concerning substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS:3025: (part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS:3025: (part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS:3025: (Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS:3025: (Part-40)	75	200	20.84
7	Chloramines (as Cl ₂)	mg/L	IS:3025: (Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS:3025: (Part-32)	250	1000	24.9
9	Copper (as Cu)	mg/L	IS:3025: (part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS:3025: (part-60)	1	1.5	0.17
11	Free Residual	mg/L	IS:3025: (Part-26)	0.2	1	N.D.

REPORT NO.: 08277

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
	Chlorine					
12	Iron (as Fe)	mg/L	IS:3025:(part-53)	0.3	No Relaxation	0.21
13	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	30	100	3.89
14	Manganese (as Mn)	mg/L	IS:3025:(part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS:3025:(part-34)	45	No Relaxation	1.75
17	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS:3025:(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS:3025:(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200	400	7.72
21	Sulphide (as H ₂ S)	mg/L	IS:3025:(Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200	600	58.0
23	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200	600	68.0
24	Zinc (as Zn)	mg/L	IS:3025:(part-49)	5	15	N.D.
C. Parameters concerning toxic substances:-						
1	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS:3025:(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS:3025:(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS:3025:(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS:3025:(part-54)	0.02	No Relaxation	N.D.
7	Polychlorinated biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS:3025:(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	IS:3025:(part-52)	0.05	No Relaxation	N.D.
11	Trihalomethanes:					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.



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REPORT NO.: 08277


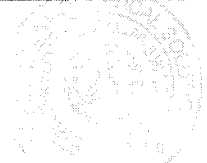
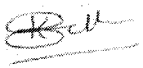
TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
b)	Dibromochloromethane	mg/L	APHA 6232	0.1	No Relaxation	N.D.
c)	Bromodichloromethane	mg/L	APHA 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	APHA 6232	0.2	No Relaxation	N.D.
12	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	-	-	Absent
13	E. Coli	MPN/100ml	IS:1622:1981:RA:2019	-	-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO.	UES/TR/23-24/08228
To,		LAB REF NO.	UES/23-24/W/015865
JNIL Metabodeli Iron Ore Mines, (25ha)		DATE OF SAMPLING	05/01/2024
Tehsil-Pakhanjur , Village – Chargaon,		DATE OF RECEIPT	06/01/2024
District- Kanker, 494635		DATE OF REPORT	10/01/2024
		DATE OF ANALYSIS	START: 06/01/2024 END: 10/01/2024
SAMPLE DETAILS			
Customer Sample Id / Sampling Location	Metabodeli 25 ha Near Solar Pump	CUSTOMER REF. NO.	4200002664
Sample Type	Ground Water	Sample Condition At Receipt	Ok
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx 5 Ltr.

REPORT NO.: 08228

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
A	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
2	Odour	-	IS:3025: (Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 25.4°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	6.95
4	Taste	-	IS:3025: (part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS:3025: (Part-10)	1	5	0.54
6	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	137.0
B	General Parameters concerning substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS:3025: (part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS:3025: (part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS:3025: (Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS:3025: (Part-40)	75	200	21.64
7	Chloramines (as Cl ₂)	mg/L	IS:3025: (Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS:3025: (Part-32)	250	1000	32.9



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REPORT NO.: 08228

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
9	Copper (as Cu)	mg/L	IS:3025:(part-53)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS:3025:(Part-46)	1	1.5	0.11
11	Free Residual Chlorine	mg/L	IS:3025:(part-59)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.3	No Relaxation	0.19
13	Magnesium (as Mg)	mg/L	IS:3025:(part-34)	30	100	8.75
14	Manganese (as Mn)	mg/L	IS:3025:(part-43)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	IS:3025:(part-56)	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	Annex J of IS 13428	45	No Relaxation	2.73
17	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS:3025:(Part-24)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS:3025:(Part-29)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	IS:3025:(Part-23)	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-21)	200	400	15.35
21	Sulphide (as H ₂ S)	mg/L	IS:3025:(part-49)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(part-53)	200	600	60.0
23	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-46)	200	600	90.0
24	Zinc (as Zn)	mg/L	IS:3025:(part-59)	5	15	N.D.
C. Parameters concerning toxic substances:-						
1	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS:3025:(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS:3025:(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS:3025:(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS:3025:(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS:3025:(part-54)	0.02	No Relaxation	N.D.



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REPORT NO.: 08228

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
7	Polychlorinated biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS:3025:(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	IS:3025:(part-52)	0.05	No Relaxation	N.D.
11	Trihalomethanes:					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.
b)	Dibromochloromethane	mg/L	APHA 6232	0.1	No Relaxation	N.D.
c)	Bromodichloromethane	mg/L	APHA 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	APHA 6232	0.2	No Relaxation	N.D.
12	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	-	-	Absent
13	E. Coli	MPN/100ml	IS:1622:1981:RA:2019	-	-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

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Name & Address Of The Customer To, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village – Chargaon, District- Kanker, 494635		Report No	UES/TR/23-24/08229	
		Lab Ref No	UES/23-24/W/015866	
		Date of Sampling	05/01/2024	
		Date of Receipt	06/01/2024	
		Date of Report	10/01/2024	
		Date of analysis	START: 06/01/2024	END: 10/01/2024
SAMPLE DETAILS				
CUSTOMER SAMPLE ID	CHARGAON RIVER UP-STREAM	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION	
SAMPLE TYPE	SURFACE WATER	SAMPLE CONDITION AT RECEIPT	OK	
LATITUDE	20°01'26.9" N	LONGITUDE	80°59'30.48" E	
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER	
OTHERS DETAILS	SEALED	QUANTITY RECEIVED	APPROX 3 LTR.	

REPORT NO.: 08229

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A.	Organoleptic & Physical Parameters					
1	Colour	Hazen	IS:3025:(Part-4)	5	15	10.0
2	Odour	-	IS:3025:(Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.32
4	Taste	-	IS:3025:(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS:3025:(Part-10)	1	5	33.72
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	210.0
B.	General Parameters Concerning Substances undesirable in excessive amounts					
1	Aluminium (as Al)	mg/L	IS:3025:(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS:3025:(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS:3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	75	200	9.62
7	Chloride (as Cl)	mg/L	IS:3025:(Part-26)	250	1000	12.9
8	Copper (as Cu)	mg/L	IS:3025:(Part-32)	0.05	1.5	0.10
9	Fluoride (as F)	mg/L	IS:3025:(part-42)	1	1.5	0.11
10	Free Residual Chlorine	mg/L	IS:3025:(part-60)	0.2	1	N.D.
11	Iron (as Fe)	mg/L	IS:3025:(part-53)	0.3	No Relaxation	0.28
12	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	30	100	10.21
13	Manganese (as Mn)	mg/L	IS:3025:(part-59)	0.1	0.3	N.D.



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REPORT NO.: 08229

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
14	Nitrate (as NO ₃)	mg/L	IS:3025:(part-34)	45	No Relaxation	3.45
15	Selenium (as Se)	mg/L	IS:3025:(part-56)	0.01	No Relaxation	N.D.
16	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200	400	24.31
17	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200	600	44.0
18	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200	600	66.0
19	Zinc (as Zn)	mg/L	IS:3025:(part-49)	5	15	N.D.
20	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58)	-	-	8.0
21	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	-	-	3.3
22	Dissolved oxygen as DO	Mg/L	IS:3025:(Part-44)	-	-	6.9
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	0.003	No Relaxation	N.D.
2	Lead (as Pb)	mg/L	IS:3025:(part-47)	0.01	No Relaxation	N.D.
3	Mercury (as Hg)	mg/L	IS:3025:(part-48)	0.001	No Relaxation	N.D.
4	Nickel (as Ni)	mg/L	IS:3025:(part-54)	0.02	No Relaxation	N.D.
5	Arsenic (as As)	mg/L	IS:3025:(part-37)	0.01	0.05	N.D.
6	Chromium (as Cr)	mg/L	IS:3025:(part-52)	0.05	No Relaxation	N.D.
F. Microbial Parameters						
1	Total Coliform	MPN/100ml	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml Sample		27
2	E. Coli *	MPN/100ml	IS:1622:1981:RA: 2019			11

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviron@gmail.com

REPORT NO.: 08230


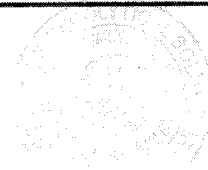
TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
15	Selenium (as Se)	mg/L	IS:3025:(part-56)	0.01	No Relaxation	N.D.
16	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200	400	22.79
17	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200	600	52.0
18	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200	600	70.0
19	Zinc (as Zn)	mg/L	IS:3025:(part-49)	5	15	N.D.
20	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58)	-	-	12
21	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	-	-	4.1
22	Dissolved oxygen as DO	Mg/L	IS:3025:(Part-44)	-	-	6.6
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	0.003	No Relaxation	N.D.
2	Lead (as Pb)	mg/L	IS:3025:(part-47)	0.01	No Relaxation	N.D.
3	Mercury (as Hg)	mg/L	IS:3025:(part-48)	0.001	No Relaxation	N.D.
4	Nickel (as Ni)	mg/L	IS:3025:(part-54)	0.02	No Relaxation	N.D.
5	Arsenic (as As)	mg/L	IS:3025:(part-37)	0.01	0.05	N.D.
6	Chromium (as Cr)	mg/L	IS:3025:(part-52)	0.05	No Relaxation	N.D.
F. Microbial Parameters						
1	Total Coliform	MPN/100ml	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml Sample		33
2	E. Coli	MPN/100ml	IS:1622:1981:RA: 2019			14

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

To, JNIL Metabodeli Iron Ore Mines, (25ha) Tehsil-Pakhanjur , Village – Chargaon, District- Kanker, 494635		Report No		UES/TR/23-24/08230	
		Lab Ref No		UES/23-24/W/015867	
		Date of Sampling		05/01/2024	
		Date of Receipt		06/01/2024	
		Date of Report		10/01/2024	
		Date of analysis		START: 06/01/2024	END: 10/01/2024
SAMPLE DETAILS					
CUSTOMER SAMPLE ID	CHARGAON RIVER DOWN-STREAM	CUSTOMER REF. NO. & DATE		VERBAL COMMUNICATION	
SAMPLE TYPE	SURFACE WATER	SAMPLE CONDITION AT RECEIPT		OK	
LATITUDE	20°02'10.25" N	LONGITUDE		80°00'36.10" E	
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY		CUSTOMER	
OTHERS DETAILS	SEALED	QUANTITY RECEIVED		APPROX 3 LTR.	

REPORT NO.: 08230

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A. Organoleptic & Physical Parameters						
1	Colour	Hazen	IS:3025:(Part-4)	5	15	10.0
2	Odour	-	IS:3025:(Part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.38
4	Taste	-	IS:3025:(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS:3025:(Part-10)	1	5	45.34
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	215.0
B. General Parameters Concerning Substances undesirable in excessive amounts						
1	Aluminium (as Al)	mg/L	IS:3025:(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS:3025:(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS:3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS:3025:(Part-40)	75	200	12.02
7	Chloride (as Cl)	mg/L	IS:3025:(Part-26)	250	1000	14.9
8	Copper (as Cu)	mg/L	IS:3025:(Part-32)	0.05	1.5	0.12
9	Fluoride (as F)	mg/L	IS:3025:(part-42)	1	1.5	0.09
10	Free Residual Chlorine	mg/L	IS:3025:(part-60)	0.2	1	N.D.
11	Iron (as Fe)	mg/L	IS:3025:(part-53)	0.3	No Relaxation	0.24
12	Magnesium (as Mg)	mg/L	IS:3025:(Part-46)	30	100	9.72
13	Manganese (as Mn)	mg/L	IS:3025:(part-59)	0.1	0.3	N.D.
14	Nitrate (as NO ₃)	mg/L	IS:3025:(part-34)	45	No Relaxation	5.09



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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

REPORT NO.: 08230

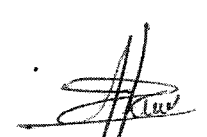
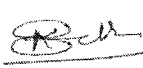
TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
15	Selenium (as Se)	mg/L	IS:3025:(part-56)	0.01	No Relaxation	N.D.
16	Sulphate (as SO ₄)	mg/L	IS:3025:(Part-24)	200	400	22.79
17	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025:(Part-23)	200	600	52.0
18	Total Hardness (as CaCO ₃)	mg/L	IS:3025:(Part-21)	200	600	70.0
19	Zinc (as Zn)	mg/L	IS:3025(part-49)	5	15	N.D.
20	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58)	-	-	12
21	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44)	-	-	4.1
22	Dissolved oxygen as DO	Mg/L	IS:3025:(Part-44)	-	-	6.6
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS:3025:(part-41)	0.003	No Relaxation	N.D.
2	Lead (as Pb)	mg/L	IS:3025:(part-47)	0.01	No Relaxation	N.D.
3	Mercury (as Hg)	mg/L	IS:3025:(part-48)	0.001	No Relaxation	N.D.
4	Nickel (as Ni)	mg/L	IS:3025:(part-54)	0.02	No Relaxation	N.D.
5	Arsenic (as As)	mg/L	IS:3025:(part-37)	0.01	0.05	N.D.
6	Chromium (as Cr)	mg/L	IS:3025:(part-52)	0.05	No Relaxation	N.D.
F. Microbial Parameters						
1	Total Coliform	MPN/100ml	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml Sample		33
2	E. Coli	MPN/100ml	IS:1622:1981:RA: 2019			14

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of the Customer To, M/s Metabodeli Iron Ore Mine - 25 Ha Tahsil - Pakhanjur, Dist. - Kanker (C.G.)		REPORT NO.		UES/TR/23-24/06362	
		LAB REF NO.		UES/23-24/AAQM/012123-012126	
		DATE OF SAMPLING		08/11/2023 - 09/11/2023	
		DATE OF RECEIPT		09/11/2023	
		DATE OF REPORT		15/11/2023	
		DATE OF ANALYSIS		START: 09/11/2023	END: 15/11/2023
SAMPLE DETAILS					
Monitoring For		Ambient Air Quality Monitoring			
Sampling Location		1. Chargaon Village			
		2. Surewahi Village			
		3. Metabodeli Village			
		4. Sondmapara Village			
Customer Ref. No.		4200002664			
Duration Of Sampling		As per CPCB norms			
Sample Collected by		Laboratory Chemist			
Sampling Procedure		As Per Method Reference			
Sample Quantity/Packing		Filter Paper (PM10): 1X1 No., Filter Paper (PM2.5): 1X1 No. SO2: 30mLX1 No. PVC Bottle, NO2: 30mLX1 No. PVC BOTTLE, Rubber Bladder: 1X1 No., C6H6: CHARCOAL Tube. OZONE: 10MLX1 No. Brown PVC Bottle, NH4: 10MLX1 No. Brown PVC Bottle			

TEST REPORT							
Parameter	Unit	NAAQM Standard	METHOD REFERENCE	Results			
				Chargaon Village	Surewahi Village	Metabodeli Village	Sondmapara Village
Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	100	IS 5182(Part 23):2006 & CPCB Guidelines Vol.-I	45.6	43.5	47.8	42.2
Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	60	IS 5182(Part 24):2019 CPCB Guidelines Vol.-I	24.8	23.0	25.3	24.5
Sulphur Dioxide (SO ₂)	µg/m ³	80	IS 5182(Part 2):2001, RA 2006 & CPCB Guidelines Vol.-I	9.9	9.3	10.2	8.9
Nitrogen Dioxide (NO ₂)	µg/m ³	80	IS 5182(Part 6): 2006 & CPCB Guidelines Vol.-I	12.5	12.7	14.4	12.8
Carbon Monoxide (CO)	mg/m ³	4.0	IS 5182(Part 10):1999, RA 2003	0.17	0.10	0.19	0.06
Ozone (O ₃)	µg/m ³	180	CPCB Guidelines Vol-I	10.5	10.0	9.8	9.9
Ammonia (NH ₃)	µg/m ³	400	CPCB Guidelines Vol-I	2.6	1.8	2.9	1.7
Arsenic (As)	ng/m ³	6.0	CPCB Guidelines Vol-I and AAS Method	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	ng/m ³	20	CPCB Guidelines Vol-I and AAS Method	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	µg/m ³	1.0	CPCB Guidelines Vol-I and AAS Method	N.D.	N.D.	N.D.	N.D.
Benzene (C ₆ H ₆)	µg/m ³	5.0	IS 5182 (Part 11):2006	N.D.	N.D.	N.D.	N.D.
Benzo (a) Pyrene	ng/m ³	1.0	IS 5182 (Part 12):2014	N.D.	N.D.	N.D.	N.D.

Note: N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----



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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer To, M/s Metabodeli Iron Ore Mine - 25 Ha Tahsil - Pakhanjur, Dist. - Kanker (C.G.)	REPORT NO.	UES/TR/23-24/06363	
	LAB REF NO.	UES/23-24/AAQM/012127-012130	
	DATE OF SAMPLING	08/11/2023 - 09/11/2023	
	DATE OF RECEIPT	09/11/2023	
	DATE OF REPORT	15/11/2023	
	DATE OF ANALYSIS	START: 09/11/2023	END: 15/11/2023

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Security Shed - N
	2. Near Weigh Bridge - W
	3. Near Temporary Store - S
	4. Near CAF Camp - E
Customer Ref. No.	4200002664
Duration Of Sampling	As per CPCB norms
Sample Collected by	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM10): 1X1 No., Filter Paper (PM2.5): 1X1 No. SO2: 30mLX1 No. PVC Bottle, NO2: 30mLX1 No. PVC BOTTLE, Rubber Bladder: 1X1 No., C6H6: CHARCOAL Tube. OZONE: 10MLX1 No. Brown PVC Bottle, NH4: 10MLX1 No. Brown PVC Bottle

TEST REPORT

Parameter	Unit	NAAQM Standard	METHOD REFERENCE	Results			
				Near Security Shed - N	Near Weigh Bridge - W	Near Temporary Store - S	Near CAF Camp - E
Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	48.4	46.3	49.5	47.6
Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	60	IS 5182 (Part 24): 2019 CPCB Guidelines Vol.-I	26.7	25.5	27.1	26.0
Sulphur Dioxide (SO ₂)	µg/m ³	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	12.4	10.2	13.7	11.6
Nitrogen Dioxide (NO ₂)	µg/m ³	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	15.2	14.7	16.3	15.5
Carbon Monoxide (CO)	mg/m ³	4.0	IS 5182 (Part 10): 1999, RA 2003	0.26	0.29	0.39	0.36
Ozone (O ₃)	µg/m ³	180	CPCB Guidelines Vol-I	43.1	9.2	8.6	11.3
Ammonia (NH ₃)	µg/m ³	400	CPCB Guidelines Vol-I	3.4	5.6	3.1	2.7
Arsenic (As)	ng/m ³	6.0	CPCB Guidelines Vol-I and AAS Method	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	ng/m ³	20	CPCB Guidelines Vol-I and AAS Method	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	µg/m ³	1.0	CPCB Guidelines Vol-I and AAS Method	N.D.	N.D.	N.D.	N.D.
Benzene (C ₆ H ₆)	µg/m ³	5.0	IS 5182 (Part 11): 2006	N.D.	N.D.	N.D.	N.D.
Benzo(a) Pyrene	ng/m ³	1.0	IS 5182 (Part 12): 2014	N.D.	N.D.	N.D.	N.D.

Note: N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address of The Customer To, M/s Metabodeli Iron Ore Mine - 25 Ha Tahsil - Pakhanjur, Dist. - Kanker (C.G.)		REPORT NO.	UES/TR/23-24/06364
		LAB REF NO.	UES/23-24/N/012131-012134
		DATE OF REPORT	15/11/2023
		DATE OF SAMPLING	08/11/2023 - 09/11/2023
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	4200002664		
SAMPLING LOCATION	(AS DESCRIBED BELOW)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 9989:1981:RA 2001		

TEST REPORT				
LOCATION	UNIT	RESULT	LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	DAY TIME	NIGHT TIME
Chargaon Village	dB(A)	55.6	75 dB(A)	70 dB(A)
Surewahi Village	dB(A)	52.4		
Metabodeli Village	dB(A)	55.3		
Sondmapara Village	dB(A)	49.1		

REMARKS: RESULTS ARE AS ABOVE. MINING OPERATION IS CARRIED OUT ONLY IN DAY TIME.

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-----End of the test report-----



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

To, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)	REPORT NO.	UES/TR/23-24/06365
	LAB REF NO.	UES/23-24/N/012135-012137
	DATE OF REPORT	15/11/2023
	DATE OF SAMPLING	08/11/2023 - 09/11/2023

SAMPLE DETAILS

MONITORING FOR	NOISE LEVEL MONITORING
CUSTOMER REF. NO. & DATE	4200002664
SAMPLING LOCATION	(AS DESCRIBED BELOW)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 9989:1981:RA 2001


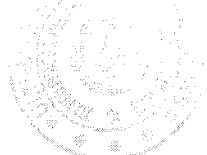
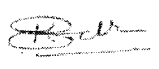
TEST REPORT

LOCATION	UNIT	RESULT	LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	DAY TIME	NIGHT TIME
NEAR SECURITY SHED - N	dB(A)	65.1	75 dB(A)	70 dB(A)
NEAR WEIGH BRIDGE - W	dB(A)	68.4		
NEAR TEMPORARY STORE - S	dB(A)	63.5		
NEAR CAF CAMP - E	dB(A)	61.3		

REMARKS: RESULTS ARE AS ABOVE. MINING OPERATION IS CARRIED OUT ONLY IN DAY TIME.

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer To, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)	REPORT NO	UES/TR/23-24/06367	
	LAB REF NO	UES/23-24/FE/012141-012142	
	DATE OF SAMPLING	08/11/2023	
	DATE OF RECEIPT	09/11/2023	
	DATE OF REPORT	15/11/2023	
	DATE OF ANALYSIS	START:09/11/2023	END: 15/11/2023

SAMPLE DETAILS

Monitoring For	Work Zone Monitoring / Fugitive Emission Monitoring
Customer Ref. No. & Date	4200002664
Duration Of Sampling	8 Hours
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	GMF Filter Paper (8 X 10 Inch): 1x1 No.

TEST REPORT

Parameter	Unit	Result (SPM)	The Environment (Protection) Rules, 1986 Standard	Method Reference
Metabodeli Village	$\mu\text{g}/\text{m}^3$	1006	1200	EPA Method IO-2.1
Chargaon Village	$\mu\text{g}/\text{m}^3$	967		

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 15/11/23 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 AUTHORIZED SIGNATORY
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-----End of the test report-----



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HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer TO, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)	REPORT NO	UES/TR/23-24/06368	
	LAB REF NO	UES/23-24/W/012143-12146	
	DATE OF SAMPLING	09/11/2023	
	DATE OF RECEIPT	10/11/2023	
	DATE OF REPORT	15/11/2023	
	DATE OF ANALYSIS	START: 10/11/2023	END: 15/11/2023

SAMPLE DETAILS

Monitoring For	Work Zone Monitoring / Fugitive Emission Monitoring
Customer Ref. No. & Date	4200002664
Duration Of Sampling	8 Hours
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	GMF Filter Paper (8 X 10 Inch): 1x1 No.

TEST REPORT

Parameter	Unit	Result (SPM)	The Environment (Protection) Rules, 1986 Standard	Method Reference
Near Crushing & Screening	$\mu\text{g}/\text{m}^3$	1010	1200	EPA Method IO-2.1
Ore Storage & Loading Area	$\mu\text{g}/\text{m}^3$	806		
Service Road	$\mu\text{g}/\text{m}^3$	658		
Mining Face / Benches	$\mu\text{g}/\text{m}^3$	607		

Terms & conditions

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 REVIEWED BY	 AUTHORIZED SIGNATORY
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
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To, M's Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)	REPORT NO	UES/TR/23-24/06366	
	LAB REF NO	UES/23-24/ST/012139	
	DATE OF SAMPLING	08/11/2023	
	DATE OF RECEIPT	09/11/2023	
	DATE OF REPORT	15/11/2023	
	DATE OF ANALYSIS	START:09/11/2023	END: 15/11/2023
SAMPLE DETAILS			
Monitoring For	DG Stack Emission Monitoring		
Customer Ref. No.	4200002664		
Sampling Location	DG SET 380 KVA		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Is 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012,		
Sample	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 NO. PVC Bottle, Rubber		
Quantity/Packing	Bladder: 1 X 1 No.,		

TEST REPORT				
Stack details				
Stack Identity	DG set 380 KVA			
Stack attached to	Generator 380 KVA			
Material of construction	MS Plate			
Stack height above ground level	10 meter			
Stack diameter	0.10 Meter			
Stack shape at top	Circular			
Type of fuel	Diesel			
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	158	-	IS 11255 (Part 3):2008
Flue gas velocity	m/s	12.6	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	246.2	-	IS 11255 (Part 3):2008
Total Particulate Matter (PM) (Corrected at 15 % O ₂)	g/kw-h	0.068	<0.2	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	g/kw-h	1.06	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)(Corrected at 15 % O ₂) Dry Basis	g/kw-h	0.82	<4.0	IS 11255 (Part 7):2005, RA 2012
Non-Methane hydrocarbon (NMHC) (Corrected at 15 % O ₂)	g/kw-h	0.43	<4.0	APHA METHOD 109, P-259
Carbon Monoxide (CO)	g/kw-h	0.61	<3.5	APHA METHOD 130, P-359

REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/06367	
To, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)		LAB REF NO	UES/23-24/ST/012140	
		DATE OF SAMPLING	08/11/2023	
		DATE OF RECEIPT	09/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START:09/11/2023	END: 15/11/2023
SAMPLE DETAILS				
Monitoring For	DG Stack Emission Monitoring			
Customer Ref. No.	4200002664			
Sampling Location	DG SET 500 KVA			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	Is 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012,			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 NO. PVC Bottle, Rubber Bladder: 1 X 1 No., Hg: 500ml X 1 No. Glass Bottle & 500ml X 3 NO. PVC Bottle.			

TEST REPORT

Stack details				
Stack Identity	DG set 500 KVA			
Stack attached to	Generator 500 KVA			
Material of construction	MS Plate			
Stack height above ground level	10 meter			
Stack diameter	0.2 meter			
Stack shape at top	Circular			
Type of fuel	Diesel			
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	164	-	IS 11255 (Part 3):2008
Flue gas velocity	m/s	13.3	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1025.2	-	IS 11255 (Part 3):2008
Total Particulate Matter (PM) (Corrected at 15 % O ₂)	g/kw-h	0.072	<0.2	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	g/kw-h	0.91	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)(Corrected at 15 % O ₂) Dry Basis	g/kw-h	0.80	<4.0	IS 11255 (Part 7):2005, RA 2012
Non-Methane hydrocarbon (NMHC) (Corrected at 15 % O ₂)	g/kw-h	0.39	<4.0	APHA METHOD 109, P-259
Carbon Monoxide (CO)	g/kw-h	0.53	<3.5	APHA METHOD 130, P-359

REMARKS: RESULTS ARE AS ABOVE

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To, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)		REPORT NO.	UES/TR/23-24/06371	
		LAB REF NO.	UES/23-24/W/012149	
		DATE OF SAMPLING	09/11/2023	
		DATE OF RECEIPT	10/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
Customer Sample Id / Sampling Location	Metabodeli 25 ha Mine Office	CUSTOMER REF. NO.	4200002664	
Sample Type	Drinking Water	Sample Condition At Receipt	Ok	
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr.	

REPORT NO.: 06371

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	pH Value at 25.4°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.27
3	Total Suspended Solids	mg/L	IS:3025:(Part-17)	-	-	N.D.
4	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	154.0
5	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	15.9
6	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.35
7	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	52.0
8	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	80.0
9	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	17.64
10	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	8.75
11	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	2.88
12	Sodium (as Na)	mg/L	APHA 22 nd Edition	-	-	9.79
13	Fluoride (as F)	mg/l	IS 3025(part-60)	1	1.5	0.14
14	Nitrate (as NO ₃)	mg/l	IS 3025(part-34)	45	No Relaxation	0.79
15	Silica	mg/L	APHA 22 nd Edition	-	-	N.D.
16	Copper (as Cu)	mg/l	IS 3025(part-42)	0.05	1.5	N.D.
17	Iron (as Fe)	mg/l	IS 3025(part-53)	0.3	No Relaxation	0.16
18	Zinc (as Zn)	mg/l	IS 3025(part-49)	5	15	N.D.
19	Chemical Oxygen Demand (COD)	mg/l	IS 3025(part-58)	-	-	N.D.



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REPORT NO.: 06371

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025: (Part-44)	-	-	N.D.
21	Nickel (as Ni)	mg/l	IS:3025: (Part-54)	0.02	No Relaxation	N.D.
22	Dissolve Oxygen (DO)	mg/l	IS:3025: (Part-38)	-	-	N.D.
23	Manganese (as Mn)	mg/l	IS 3025(part-59)	0.1	0.3	N.D.
24	Cadmium (as Cd)	mg/l	IS 3025(part-41)	0.003	No Relaxation	N.D.
25	Lead (as Pb)	mg/l	IS 3025(part-47)	0.01	No Relaxation	N.D.
26	Chromium (as Cr)	mg/l	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Phosphate (as PO ₄)	mg/L	APHA 22 nd Edition	-	-	N.D.
28	Arsenic (as As)	mg/l	IS 3025(part-37)	0.01	0.05	N.D.
29	Mercury (as Hg)	mg/l	IS 3025(part-48)	0.001	No Relaxation	N.D.
30	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	IS 3025(part-43)	0.001	0.002	N.D.
31	Cyanide (as CN)	mg/l	IS 3025(part-27)	0.05	No Relaxation	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA: 2019	-	-	Absent
33	E. Coli	MPN/100ml	IS: 1622:1981:RA: 2019	-	-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

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-----End of the test report-----



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Name & Address Of The Customer TO, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)		REPORT NO.	UES/TR/23-24/06372	
		LAB REF NO.	UES/23-24/W/012150	
		DATE OF SAMPLING	09/11/2023	
		DATE OF RECEIPT	10/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START: 10/15/2023	END: 15/11/2023
SAMPLE DETAILS				
Customer Sample Id / Sampling Location	Near Solar Pump	CUSTOMER REF. NO.	4200002664	
Sample Type	Drinking Water	Sample Condition At Receipt	Ok	
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr.	

REPORT NO.: 06372

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	pH Value at 25.4°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.09
3	Total Suspended Solids	mg/L	IS:3025:(Part-17)	-	-	N.D.
4	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	163.0
5	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	17.9
6	Turbidity	NTU	IS 3025:(Part-10)	1	5	0.14
7	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	96.0
8	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	114.0
9	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	34.47
10	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	6.80
11	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	21.92
12	Sodium (as Na)	mg/L	APHA 22 nd Edition	-	-	2.64
13	Fluoride (as F)	mg/l	IS 3025(part-60)	1	1.5	0.07
14	Nitrate (as NO ₃)	mg/l	IS 3025(part-34)	45	No Relaxation	9.68
15	Silica	mg/L	APHA 22 nd Edition	-	-	N.D.
16	Copper (as Cu)	mg/l	IS 3025(part-42)	0.05	1.5	N.D.
17	Iron (as Fe)	mg/l	IS 3025(part-53)	0.3	No Relaxation	0.09
18	Zinc (as Zn)	mg/l	IS 3025(part-49)	5	15	N.D.
19	Chemical Oxygen Demand (COD)	mg/l	IS 3025(part-58)	-	-	N.D.



HDD-272, Phase III - Near JP Chowk
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To, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)		REPORT NO.	UES/TR/23-24/08225	
		LAB REF NO.	UES/23-24/W/015862	
		DATE OF SAMPLING	05/01/2024	
		DATE OF RECEIPT	06/01/2024	
		DATE OF REPORT	10/01/2024	
		DATE OF ANALYSIS	START: 06/01/2024	END: 10/01/2024
SAMPLE DETAILS				
Customer Sample Id / Sampling Location	Metabodeli 25 ha Mine Office	CUSTOMER REF. NO.	4200002664	
Sample Type	Drinking Water	Sample Condition At Receipt	Ok	
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx 5 Ltr.	

REPORT NO.: 08225

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
2	pH Value at 25.4°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	7.14
3	Total Suspended Solids	mg/L	IS:3025: (Part-17)	-	-	N.D.
4	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	137.0
5	Chloride (as Cl)	mg/L	IS:3025: (Part-32)	250	1000	13.9
6	Turbidity	NTU	IS:3025: (Part-10)	1	5	0.31
7	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025: (Part-23)	200	600	46.0
8	Total Hardness (as CaCO ₃)	mg/L	IS:3025: (Part-21)	200	600	72.0
9	Calcium (as Ca)	mg/L	IS:3025: (Part-40)	75	200	16.03
10	Magnesium (as Mg)	mg/L	IS:3025: (Part-46)	30	100	7.78
11	Sulphate (as SO ₄)	mg/L	IS:3025: (Part-24)	200	400	2.56
12	Sodium (as Na)	mg/L	IS:3025: (Part-45)	-	-	8.71
13	Fluoride (as F)	mg/l	IS:3025: (part-60)	1	1.5	0.12
14	Nitrate (as NO ₃)	mg/l	IS:3025: (part-34)	45	No Relaxation	0.71
15	Silica	mg/L	IS:3025: (Part-35)	-	-	N.D.
16	Copper (as Cu)	mg/l	IS:3025: (part-42)	0.05	1.5	N.D.
17	Iron (as Fe)	mg/l	IS:3025: (part-53)	0.3	No Relaxation	0.14
18	Zinc (as Zn)	mg/l	IS:3025: (part-49)	5	15	N.D.
19	Chemical Oxygen Demand (COD)	mg/l	IS:3025: (part-58)	-	-	N.D.



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REPORT NO.: 08225

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025:(Part-44)	-	-	N.D.
21	Nickel (as Ni)	mg/l	IS:3025:(Part-54)	0.02	No Relaxation	N.D.
22	Dissolve Oxygen (DO)	mg/l	IS:3025:(Part-38)	-	-	N.D.
23	Manganese (as Mn)	mg/l	IS:3025:(part-59)	0.1	0.3	N.D.
24	Cadmium (as Cd)	mg/l	IS:3025:(part-41)	0.003	No Relaxation	N.D.
25	Lead (as Pb)	mg/l	IS:3025:(part-47)	0.01	No Relaxation	N.D.
26	Chromium (as Cr)	mg/l	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Phosphate (as PO ₄)	mg/L	IS:3025:(Part-31)	-	-	N.D.
28	Arsenic (as As)	mg/l	IS:3025:(part-37)	0.01	0.05	N.D.
29	Mercury (as Hg)	mg/l	IS:3025:(part-48)	0.001	No Relaxation	N.D.
30	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	IS:3025:(part-43)	0.001	0.002	N.D.
31	Cyanide (as CN)	mg/l	IS:3025:(part-27)	0.05	No Relaxation	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	-	-	Absent
33	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019	-	-	Absent

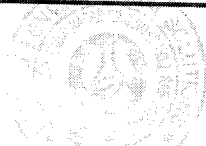
Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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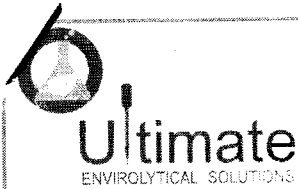
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
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TO, M/s Metabodeli Iron Ore Mine – 25 Ha Tahsil – Pakhanjur, Dist. – Kanker (C.G.)		REPORT NO.	UES/TR/23-24/08226
		LAB REF NO.	UES/23-24/W/015863
		DATE OF SAMPLING	05/01/2024
		DATE OF RECEIPT	06/01/2024
		DATE OF REPORT	10/01/2024
		DATE OF ANALYSIS	START: 06/01/2024 * END: 10/01/2024
SAMPLE DETAILS			
Customer Sample Id / Sampling Location	Near Solar Pump	CUSTOMER REF. NO.	4200002664
Sample Type	Drinking Water	Sample Condition At Receipt	Ok
Packing of Sample	Plastic Bottle	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx 5 Ltr.

REPORT NO.: 08226

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
1	Colour	Hazen	IS:3025: (Part-4)	5	15	<1
2	pH Value at 25.4°C	-	IS:3025: (Part-11)	6.5-8.5	No Relaxation	7.22
3	Total Suspended Solids	mg/L	IS:3025: (Part-17)	-	-	N.D.
4	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	500	2000	145.0
5	Chloride (as Cl)	mg/L	IS:3025: (Part-32)	250	1000	15.9
6	Turbidity	NTU	IS:3025: (Part-10)	1	5	0.12
7	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025: (Part-23)	200	600	86.0
8	Total Hardness (as CaCO ₃)	mg/L	IS:3025: (Part-21)	200	600	102.0
9	Calcium (as Ca)	mg/L	IS:3025: (Part-40)	75	200	30.46
10	Magnesium (as Mg)	mg/L	IS:3025: (Part-46)	30	100	6.31
11	Sulphate (as SO ₄)	mg/L	IS:3025: (Part-24)	200	400	19.49
12	Sodium (as Na)	mg/L	IS:3025: (Part-45)	-	-	2.35
13	Fluoride (as F)	mg/l	IS:3025: (part-60)	1	1.5	0.06
14	Nitrate (as NO ₃)	mg/l	IS:3025: (part-34)	45	No Relaxation	8.61
15	Silica	mg/L	IS:3025: (Part-35)	-	-	N.D.
16	Copper (as Cu)	mg/l	IS:3025: (part-42)	0.05	1.5	N.D.
17	Iron (as Fe)	mg/l	IS:3025: (part-53)	0.3	No Relaxation	0.08
18	Zinc (as Zn)	mg/l	IS:3025: (part-49)	5	15	N.D.
19	Chemical Oxygen Demand (COD)	mg/l	IS:3025: (part-58)	-	-	N.D.



HDD-272, Phase III - Near JP Chowk
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REPORT NO.: 08226

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Acceptable Limit	Permissible limit	
20	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025:(Part-44)	-	-	N.D.
21	Nickel (as Ni)	mg/l	IS:3025:(Part-54)	0.02	No Relaxation	N.D.
22	Dissolve Oxygen (DO)	mg/l	IS:3025:(Part-38)	-	-	N.D.
23	Manganese (as Mn)	mg/l	IS:3025:(part-59)	0.1	0.3	N.D.
24	Cadmium (as Cd)	mg/l	IS:3025:(part-41)	0.003	No Relaxation	N.D.
25	Lead (as Pb)	mg/l	IS:3025:(part-47)	0.01	No Relaxation	N.D.
26	Chromium (as Cr)	mg/l	Annex J of IS:13428	0.05	No Relaxation	N.D.
27	Phosphate (as PO4)	mg/L	IS:3025:(Part-31)	-	-	N.D.
28	Arsenic (as As)	mg/l	IS:3025:(part-37)	0.01	0.05	N.D.
29	Mercury (as Hg)	mg/l	IS:3025:(part-48)	0.001	No Relaxation	N.D.
30	Phenolic Compound (as C6H5OH)	mg/l	IS:3025:(part-43)	0.001	0.002	N.D.
31	Cyanide (as CN)	mg/l	IS:3025:(part-27)	0.05	No Relaxation	N.D.
32	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	-	-	Absent
33	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019	-	-	Absent

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 AUTHORIZED SIGNATORY
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-----End of the test report-----