



Ref. No.: -HIL/EC/GP-IV/5/2019/ 65

Date: 29.05.2019

To,
Additional Principal Chief Conservator of Forest,
Ministry of Environment Forests & Climate Change (MoEF)
Regional Office, (West Central Zone)
Ground Floor, East Wing
New Secretary Building,
Civil Lines, Nagpur -440001

Sub.: Six Monthly Environment Clearance Compliance Status Report for Gare Palma - IV/5 Coal Mine along with Environmental Monitoring reports of Ambient Air, Water, and Noise etc.

Ref. Environment Clearance No. J-11015/ 8/1998-IA.II (M) Dated: - 16th April 2015.

Sir,

With reference to subject matter on referred letter, we are submitting the six monthly Environmental Clearance Compliance status report along with environmental monitoring reports for Ambient Air, Water, Noise, during the period of **October 2018 to March 2019.**

This is for your kind information please.

Thanking you,

Yours faithfully,
For Hindalco Industries Limited,


29/5/19

(Dipesh Bhatia)
Vice President
Gare Palma IV/5,

Encl. : Six Monthly Environmental Clearance Compliance Report as Annexure-A.

CC To:

1. Zonal Officer, Central Pollution Control Board, Sahkar Bhawan, 3rd Floor, North T.T. Nagar, Bhopal – 462 003 (M. P.)
2. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, Naya Raipur Chhattisgarh.
3. Regional Officer, Chhattisgarh Environment Conservation Board (CECB), T.V. Tower Road, Raigarh (C.G.)

Hindalco Industries Limited



Compliance Report on conditions of Environment Clearance for Gare-Palma IV/5 coal mining project Transfer by Ministry of Environment & Forests vide letter no. J-11015/ 8/1998-IA.II (M) Dated: - 16th April 2015 for Under Ground Mining 1.0 Million Ton/Annum Production Capacity

SI No	Conditions	Status
1	Any change in scope of work will attract the provisions of Environment Protection Act (EPA), 1986 and Environment Impact Assessment Notification, 2006 in conjunction with the subsequent amendments/circulars.	Noted please.
2	All conditions stipulated in the EC letter No.J-11015/8/1998-IA.II (M) dated 31 st August, 2000 shall remain unchanged.	Noted please.
3	The successful bidder shall be liable, if any, for any act of violation of the EPA 1986/EIA Notification 2006/subsequent amendments and circulars which it has inherited during the transfer.	Noted please.
4	Successful bidder shall be liable for compliance of all court directions, if any.	Noted please.

Compliance Report on conditions of Environment Clearance for Gare-Palma IV/5 coal mining project given by Ministry of Environment & Forests vide letter no. J-11015/ 8/1998-IA.II (M) Dated: - 31st August 2000 for Under Ground Mining 1.0 Million Ton/Annum Production Capacity

SI No	Specific Conditions	Status
i	Regular Monitoring of subsidence movement on the surface over working areas and impact on water bodies/ vegetation/ structures/ surroundings should be continued till movement ceases completely. In case of observation of any high rates of subsidence movement, appropriate measures should be taken to avoid loss of life and materials. Cracks should be effectively plugged with ballast and clayey soil/ suitable material.	The method of mining at Gare Palma IV/5 coal mine is Bord & Pillar. Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural pattern, water bodies, vegetation, structure, roads and surroundings is being done by internal expert. During the observation no subsidence movement has been observed. In future, if any subsidence movement is found, appropriate effective corrective measures will be taken to avoid loss of life and material. Cracks will be effectively plugged with ballast and clayey soil/suitable material if observed.
ii	Adequate underground barrier should be left in consultation with the Director General of Mines & Safety (DGMS). Depillaring should also be carried out after taking approval from DGMS.	Adequate underground barrier as required are being maintained between the working face and the river in consultation with DGMS and also at other places whenever

		required. Depillaring is being carried out after taking prior approval of the DGMS.
iii	Garland drains should be constructed around the waste rock and ore stockpiles to prevent surface run-off.	Garland drain have been constructed around the coal stock yard to prevent the surface run-off.
iv	A Green Belt of adequate width should be raised by planting the local species along the mine boundary, Waste rock dumps, ore stockpile, ventilation fan road and selected open areas in consultation with local DFO/ Agriculture Department. Density of tree should be at least 2500 plants per ha.	Planation in mines area is being done. At present 47000 nos. of trees have been planted within the Mine boundary and other places. Trees species planted are Gulmohar, Ashoka Aam, Imli, Shisam, Eucalyptus, Neem, Jamun, Accassia spp. etc. in consultation with DFO. Plantation has been carried out @2500 per hectare and will also be ensure in future. Plantation details enclosed as Annexure -I.
v	Compensation to the 14 land losers from whom private land will be acquired should be paid as per the state government norms.	Compensation to the 14 land losers has been paid by the company.
vi	The project authority should conduct a subsidence estimation study and submit the report to the Ministry within six months.	Subsidence estimation study report has been submitted to the Ministry by Prior allottee.
vii	The project proponent will construct "Check dams "at the sites proposed by the State Ground water Department in their report. While undertaking the proposed mining, the construction of the check dams should be carried out in with Ground water survey department, Government of MP (presently Chhattisgarh) and should have necessary financial provision and technical expertise. This should be communicated to the MoEF and CGWB.	As per requirement the check dams at the site will be constructed in consultation with state forest department and Ground water survey department, Government of Chhattisgarh and will be communicated to MOEF& CC and CGWB.
viii	Regular monitoring of the Ground water level and quality should be carried out by establishing a network of existing wells and constructing new Piezometer during the mining operations. The interval of monitoring should be four times a year- Pre monsoon (April to May), Monsoon (August), Post Monsoon (November) and winter (January). The data thus collected may be sent regularly to MoEF and CGWB for information.	Regular monitoring of groundwater level and quality is being carried out by establishing a network of existing wells. Report on ground water level monitoring and quality is enclosed as Annexure-II.
ix	Digital processing of the entire lease using remote sensing technique should be regularly once in three years for monitoring land use pattern and report submitted to MoEF and its regional officer.	Study report on digital processing of entire mine lease area has been submitted.
x	A detailed mine decommissioning plan should be submitted to the MoEF, five years in advance for approval.	Detailed mine decommissioning plan will be submitted to the Ministry of Environment and forests, five years in advance for approval.

B	General Conditions	
i	No change in mining technology and scope of working should be made without prior approval of the MoEF.	Noted and is being complied..
ii	No change in the calendar plan including excavation quantum of mineral coal and waste should be made.	Noted. Coal production restricted within EC limit. In 2018-19, 0.537MT of coal was mined out.
iii	Four ambient air quality stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO ₂ , NO _x & CO Monitoring. Location of stations should be decided based on the meteorology data, topographical features and environmental and ecologically sensitive targets in consultation with the State Pollution Control Board.	Four ambient air quality monitoring stations have been established in consultation with the State Pollution Control Board and regular monitoring is being carried out. Monitoring Report is enclosed as Annexure-III .
iv	Data of ambient air quality (RPM, SPM, SO ₂ , NO _x & CO) should be regularly submitted to the Ministry including its Regional Officer at Bhopal (Currently Raipur) and the State Pollution Control Board & Central Pollution Control Board (Currently Raipur).	Ambient air quality monitoring report is enclosed as Annexure -III.
v	Drill should be wet operated.	Wet drilling is under practice.
vi	Fugitive dust emission from all the sources should be controlled, regularly monitored and the data recorded properly. Water spraying arrangement on haul roads, Wagons, loading dump trucks (loading and unloading) should be provided and properly maintained.	Fixed type water sprinkler has been provided at all along the roads, and loading points etc. to control the fugitive dust emission.
vii	Adequate measures should be taken for control of noise level below 80db in the work environment. Workers engaged in blasting and drilling operation, operations of HEMM etc. should be provided with ear plugs/ muffs	Ear muffs/plugs has been provided to the all workers engaged in blasting and drilling operations, operations of HEMM etc. The Noise monitoring report is enclosed as Annexure-IV .
viii	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform on the standards prescribed under GSR 422 dated 19.05.1993 and 31.12.1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents in to the pond.	06 nos. Settling ponds with two numbers of Lamella clarifier (ETP-2 x200 m3 per hour) plant has been installed for treatment of mine water. Report on water quality is enclosed as Annexure-V .
ix	Acid mine water if any has to be treated and disposed off after conforming to the standards prescribed by the competent authority.	There is no acid mine water. Lamella clarifier (ETP) plant has been installed for treatment of mine water. Report on water quality is enclosed as Annexure-V .
x	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in	Environmental laboratory has been established with adequate number and type of pollution monitoring and analysis equipment in consultation with the state

	consultation with the State Pollution Control Board	pollution control Board. However we have engaged NABL laboratory for environmental quality monitoring of the mines area.
xi	Personnel working in dust area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance of the workers should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures if needed.	Personnel working in dusty areas are wearing protective respiratory devices and they have also been provided with adequate training and information on safety and health aspect. Occupational health surveillance programme of the workers is being undertaken periodically to observe any contraction due to exposure to coal dust and corrective measures will be taken accordingly.
xii	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive who will report directly to the Head of the Organization.	A separate environment management cell with suitable qualified personnel have been set up under the control of a senior Executive.
xiii	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to Ministry.	The funds earmarked for environmental protection measures has been budgeted separately and not been diverted for other purposes. Annexure-VI.
xiv	The Regional Officer of the ministry located at Bhopal (currently Raipur) shall monitor compliance of the stipulated conditions. The project authorities should extent full co-operation to the officer (s) of the Regional Officer by furnishing requisite data information / monitoring reports	Agreed and cooperation will be extended on time to time.
xv	A copy of the clearance letter will be marked to concerned Panchayat/ local NGO if any from whom suggestion / representation has been received while processing the proposal	Complied by Prior Allottee.
xvi	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's office for 30 days	Complied by Prior Allottee.
xvii	The project authorities should advertise at least two local newspapers widely circulated around the project one of which shall be in vernacular language of the locality concerned informing that the project has been accorded environmental clearance and the copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the MoEF at http://envfor.nic.in	Complied by Prior Allottee.

Year wise Plantation Detail for Gare-Palma IV/5 Coal Mines

(Milupara Underground coal mine)

Sl. No.	Year	Plantation area in Acre	Numbers of saplings planted. (Approx.)	Nos. of saplings
1	Upto 2015	Coal mine lease area.	30000	<i>Neem, Mahua, , Jamun, Mango, Guava, Imli, Drumstick, Teak, Shivan / Ghamar, Sisham, Sirus, Bamboo, Peltafarm, Nilgiri etc.</i>
2	2016	Coal mine lease area	2000	
3	2017	Coal mine lease area	5000	
4	2018	Coal mine lease area	5000	
5	2019	Coal mine lease area	5000	
Total			47000	

Ground water level monitoring in and around the Coal Mine area**(November-2018)**

Sr. No.	Location	Types of structure	Water level (MBGL)
1	Bankheta (Near HIL Office)	Borewell	8.78
2	Banjikhoh (Near Office)	Borewell	22.97
3	Milupara (Near Office)	Borewell	10.15
4	HIL Staff Quarter	Borewell	5.34
5	Milupara (PHC-HIL)	Dugwell	4.94
6	Sakta (Near Primary School)	Dugwell	2.56
7	Sidarpara (Primary School compound)	Dugwell	9.30
8	Beljor Village	Dugwell	3.45

Ground water level monitoring in and around the Coal Mine area**(January-2019)**

Sr. No.	Location	Types of structure	Water level (MBGL)
1	Bankheta (Near HIL Office)	Borewell	10.02
2	Banjikhoh (Near Office)	Borewell	22.47
3	Milupara (Near Office)	Borewell	11.66
4	HIL Staff Quarter	Borewell	7.26
5	Milupara (PHC-HIL)	Dugwell	5.50
6	Sakta (Near Primary School)	Dugwell	2.70
7	Sidarpara (Primary School compound)	Dugwell	10.05
8	Beljor Village	Dugwell	4.00



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Name & Address of The Customer		REPORT NO	UES/TR/II/18-19/01570	
TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE, VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107		LAB REF NO	UES/18-19/NAQM/1570	
		DATE OF SAMPLING	23/10/2018	
		DATE OF RECEIPT	24/10/2018	
		DATE OF REPORT	29/10/2018	
		DATE OF ANALYSIS	START: 25/10/2018	END: 27/10/2018
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRV/1819/0084, DTD. 07.08.2018	
SAMPLING LOCATION	MAIN OFFICE AREA, MELUPARA			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURES	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (2H10): 1X1 NO., FILTER PAPER (2H2.5): 1X1 NO. SO2: 30MLX1 NO. PVC BOTTLE, SO2: 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	54	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	21	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	27	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.2	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 07 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.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



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Name & Address of the Customer TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE, VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/II/18-19/01571	
	LAB REF NO	UES/18-19/AAQM/1571	
	DATE OF SAMPLING	23/10/2018	
	DATE OF RECEIPT	24/10/2018	
	DATE OF REPORT	29/10/2018	
	DATE OF ANALYSIS	START: 25/10/2018	END: 27/10/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRV/1819/0084, DTD. 07.00.2018
SAMPLING LOCATION	STAFF QUARTER, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	51	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	22	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	17	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	24	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)*	mg/m ³	1.3	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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Name & Address of the Customer TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE, VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/II/18-19/01568
	LAB REF NO	UES/18-19/AAQM/1568
	DATE OF SAMPLING	24/10/2018
	DATE OF RECEIPT	25/10/2018
	DATE OF REPORT	29/10/2018
	DATE OF ANALYSIS	START:25/10/2018 END:27/10/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	N/NO/ENV/1818/0084, DTD. 07.08.2018
SAMPLING LOCATION	KIL COLONY, KOSWEL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	64	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	35	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	26	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	34	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	2.2	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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AUTHORIZED SIGNATORY

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



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Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/01569	
LAD REF NO	UES/18-19/AAQM/1569	
DATE OF SAMPLING	24/10/2018	
DATE OF RECEIPT	25/10/2018	
DATE OF REPORT	29/10/2018	
DATE OF ANALYSIS	START: 25/10/2018	END: 27/10/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SHV/1819/0024, DTD. 07.09.2018
SAMPLING LOCATION	STP AREA , HONDEKAL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE NUMBER BLOWER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	69	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	29	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	22	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	27	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.7	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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AUTHORIZED SIGNATORY

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



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Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE, VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/11/18-19/01850	
LAB REF NO	UES/18-19/AAQM/1858	
DATE OF SAMPLING	23/11/2018	
DATE OF RECEIPT	24/11/2018	
DATE OF REPORT	30/11/2018	
DATE OF ANALYSIS	START:25/11/2018	END:27/11/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	H/TO/SRV/1819/0504, DTD. 07.09.2018
SAMPLING LOCATION	MAIN OFFICE AREA, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM10) : LXI NO., FILTER PAPER (PM2.5) : LXI NO. SO2 : 30MLXI NO. PVC BOTTLE, SO2 : 30MLXI NO. PVC BOTTLE RUBBER BLENDER : LXI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	52	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	28	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	22	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	26	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.4	4.0	IS 5182(Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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 AUTHORIZED SIGNATORY

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



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TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE,VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/II/18-19/01859	
	LAB REF NO	UES/18-19/AAQM/1859	
	DATE OF SAMPLING	23/11/2018	
	DATE OF RECEIPT	24/11/2018	
	DATE OF REPORT	30/11/2018	
	DATE OF ANALYSIS	START:25/11/2018	END:27/11/2018

SAMPLE DETAILS			
MONITORING FOR	Ambient Air Quality Monitoring	CUSTOMER REF. NO. & DATE	M/PO/SRV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	STAFF QUARTER, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. NO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLAUNDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	50	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	21	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	16	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	22	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.1	4.0	IS 5182 (Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE II, NEAR J.P. CHOWK,
RING ROAD NO -2, KANUNAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 ; EMAIL: ultimatenviro@gmail.com



TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE, VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/II/18-19/01860
	LAB REF NO	UES/18-19/NAQM/1860
	DATE OF SAMPLING	23/11/2018
	DATE OF RECEIPT	24/11/2018
	DATE OF REPORT	30/11/2018
	DATE OF ANALYSIS	START:23/11/2018 END:27/11/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/20/SRV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	KIL COLONY, KONDREL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LXI NO., FILTER PAPER (PM _{2.5}): LXI NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE SUGREN SLADDEN: LXI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	65	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	32	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	27	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	32	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	2.3	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

 AUTHORIZED SIGNATORY

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



HDD-292, PHASE III - NEAR 7th CROSS,
RING ROAD NO -2, KANW NAGAR, RAIPUR, C.G. -33
PH - 0771-2972344 - EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer		REPORT NO	UES/TR/11/18-19/01861	
TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE, VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107		LAR REF NO	UES/18-19/AAQM/1861	
		DATE OF SAMPLING	23/11/2018	
		DATE OF RECEIPT	24/11/2018	
		DATE OF REPORT	30/11/2018	
		DATE OF ANALYSIS	START:25/11/2018	END:27/11/2018
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRY/1819/0084, DTD. 07.08.2018	
SAMPLING LOCATION	KTP AREA, ROMDOL			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE NUMBER BLEADER: 1X1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	58	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	27	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	24	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	29	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.5	4.0	IS 5182(Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD - 272, PHASE III - NEAR J.P. CHOWK,
RONG ROAD NO - 2, KANW NAGAR RAIPUR, C.G. - 99
PH - 0771-2972364 | EMAIL-ultimateenviro@gmail.com



Name & Address of The Customer		REPORT NO	UES/TR/II/18-19/02084	
TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE, VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107		LAB REF NO	UES/18-19/AAQM/2084	
		DATE OF SAMPLING	21/12/2018	
		DATE OF RECEIPT	22/12/2018	
		DATE OF REPORT	29/12/2018	
		DATE OF ANALYSIS	START: 24/12/2018	END: 26/12/2018
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SHV/1819/0034, DTD. 07.08.2018	
SAMPLING LOCATION	MAIN OFFICE AREA, MILUPARA			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM10): LXI NO., FILTER PAPER (PM2.5): LXI NO. SOS: SPMXVI NO. PVC BOTTLE, NOS: SPMXVI NO. PVC BOTTLE RUBBER SLABBER: LXI NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	52	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	25	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	20	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	1.3	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE III - NEAR JP CHOWK,
 A/NG ROAD NO -2, RAJUR NAGAR, RAIPUR, C.G. -99
 PH - 0771-2972864 | EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/02085	
LAB REF NO	UES/18-19/AAQM/2085	
DATE OF SAMPLING	21/12/2018	
DATE OF RECEIPT	22/12/2018	
DATE OF REPORT	29/12/2018	
DATE OF ANALYSIS	START: 24/12/2018	END: 26/12/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/ENV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	START QUARTER, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LXI NO., FILTER PAPER (PM _{2.5}): LXI NO. SO ₂ : JIMLXI NO. PVC BOTTLE, NO ₂ : JIMLXI NO. PVC BOTTLE RUBBER BALLON: INI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	50	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	22	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	18	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	21	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	1.2	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE III- NEAR JP CHOKI,
RING ROAD NO -2, RAIRI NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/02086
LAB REF NO	UES/18-19/AAQM/2086
DATE OF SAMPLING	22/12/2018
DATE OF RECEIPT	23/12/2018
DATE OF REPORT	29/12/2018
DATE OF ANALYSIS	START:24/12/2018 END:26/12/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/ENV/1819/0086, DTD. 07.08.2018
SAMPLING LOCATION	KIL COLONY, KONGREL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 20MLKI NO. PVC BOTTLE, NO ₂ : 20MLKI NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	62	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	31	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	28	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	33	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	2.5	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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For ULTIMATE ENVIROLYTICAL SOLUTIONS


 AUTHORIZED SIGNATORY

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



HDD / 272, MEASE RD / NEAR JP CHOWN,
 KONG ROAD NO - 2, KAMIN NAGAR, RAIPUR, C.G. - 79
 PH - 0771-2972364 : EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/02087	
LAB REF NO	UES/18-19/AAQM/2087	
DATE OF SAMPLING	22/12/2018	
DATE OF RECEIPT	23/12/2018	
DATE OF REPORT	29/12/2018	
DATE OF ANALYSIS	START:24/12/2018	END:26/12/2018

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	FTP AREA , KONDREL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LXI NO., FILTER PAPER (PM _{2.5}): LXI NO. SO ₂ : JOMLXI NO. PVC BOTTLE, NO ₂ : JOMLXI NO. PVC BOTTLE RUBBER BLADDER: LXI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	54	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	25	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	22	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	28	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	1.7	4.0	IS 5182 (Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

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



HDO-272, PHASE III - NEAR JP CHOKK,
RING ROAD NO -2, KASIR NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 ; EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/18-19/02465	
LAD REF NO	UES/18-19/AAQM/2465	
DATE OF SAMPLING	29/01/2019	
DATE OF RECEIPT	30/01/2019	
DATE OF REPORT	04/02/2019	
DATE OF ANALYSIS	START: 21/01/2019	END: 01/02/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SKY/1819/0084, STD. 07.08.2018
SAMPLING LOCATION	MAIN OFFICE AREA, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLER COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM10): LXi NO. , FILTER PAPER (PM2.5): LXi NO. SO2: JOMLXI NO. PVC BOTTLE, NO2: JOMLXI NO. PVC BOTTLE BUBBLE BLASDER: LXi NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	53	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	22	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	18	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	22	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	1.5	4.0	IS 5182(Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



100-272, PHASE III- NEAR JP CHOKK,
RING ROAD NO -2, KAZIR NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 ; EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TA/18-19/02466	
LAB REF NO	UES/18-19/AAQM/2466	
DATE OF SAMPLING	29/01/2019	
DATE OF RECEIPT	30/01/2019	
DATE OF REPORT	04/02/2019	
DATE OF ANALYSIS	START: 31/01/2019	END: 01/02/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PG/ENV/1819/0086, DTD. 07.09.2018
SAMPLING LOCATION	STAFF QUARTER, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO., SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLANDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	49	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	23	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	15	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	19	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	1.0	4.0	IS 5182 (Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDO-272, PHASE III - NEAR J.P. CHOWK,
RING ROAD NO -2, KANUN NAGAR, RAIPUR, C.G. -99
PH - 0771-2972304 : EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/18-19/02467
LAB REF NO	UES/18-19/ANQM/2467
DATE OF SAMPLING	30/01/2019
DATE OF RECEIPT	31/01/2019
DATE OF REPORT	04/02/2019
DATE OF ANALYSIS	START: 31/01/2019 END: 01/02/2019

SAMPLE DETAILS

MONITORING FOR	Ambient Air Quality Monitoring	CUSTOMER REF. NO. & DATE	M/NO/ENV/1819/3084, DTD. 07.08.2018
SAMPLING LOCATION	WIL COLONY, KUNDREL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO., SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	65	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	31	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	25	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	32	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	2.5	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- > This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE III - NEAR 2nd CROSS,
RING ROAD NO -2, KALIN NAGAR RAIPUR, C.G. -99
PH - 0771-2972364 : EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE,VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/18-19/02468	
	LAB REF NO	UES/18-19/AAQM/2468	
	DATE OF SAMPLING	30/01/2019	
	DATE OF RECEIPT	31/01/2019	
	DATE OF REPORT	04/02/2019	
	DATE OF ANALYSIS	START:31/01/2019	END:01/02/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/HRV/1819/0064, DTD. 07.08.2018
SAMPLING LOCATION	KTP AREA , KOWKEL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LKI NO., FILTER PAPER (PM _{2.5}): LKI NO. SO ₂ : JOMLKI NO. PVC BOTTLE, NO.: JOMLKI NO. PVC BOTTLE RUBBER BLADDER: LKI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	52	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	21	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	26	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m ³	1.8	4.0	IS 5182 (Part 10):1999, RA 2003

Note: All results are on the basis of 24hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



100-275, PHASE II - NEAR AT CHOWK,
RING ROAD NO - 2, RAIRI NAGAR, RAIPUR, C.G. - 99
PH - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

**TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/18-19/02823	
LAR REF NO	UES/18-19/AAQM/2823	
DATE OF SAMPLING	21/02/2019	
DATE OF RECEIPT	22/02/2019	
DATE OF REPORT	01/03/2019	
DATE OF ANALYSIS	START:23/02/2019	END:27/02/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER SKP. NO. & DATE	M/PO/SEV/1619/0084, DTD. 07.08.2018
SAMPLING LOCATION	MAIN OFFICE AREA, MILUPARA		
DURATION OF SAMPLING	24 HOURS	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. SOF: 30MLKI NO. PVC BOTTLE, MDR: 30MLKI NO. PVC BOTTLE RUBBER BANDS: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	52	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	16	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	20	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.2	4.0	IS 5182(Part 10):1999, RA 2003

Note: * Duration of sampling for CO - 1 Hour

REMARKS: RESULTS ARE AS ABOVE

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- This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS


 AUTHORIZED SIGNATORY

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



HDD-272, PHASE III - NEAR 2ND CROSS,
RING ROAD NO -2, KARW NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 | EMAIL: ultimateenviro@gmail.com



Name & Address of The Customer		REPORT NO	UES/TR/18-19/02824	
TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE,VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107		LAB REF NO	UES/18-19/AAQM/2824	
		DATE OF SAMPLING	21/02/2019	
		DATE OF RECEIPT	22/02/2019	
		DATE OF REPORT	01/03/2019	
		DATE OF ANALYSIS	START: 26/02/2019	END: 27/02/2019
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRV/1819/0084, DTD. 07.08.2018	
SAMPLING LOCATION	STAFF QUARTER, MILUPARA			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LXI NO., FILTER PAPER (PM _{2.5}): LXI NO. SO ₂ : JOMEXI NO. PVC BOTTLE, NO ₂ : JOMEXI NO. PVC BOTTLE RUBBER BLADDER: LXI NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	48	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	22	60	Instrument Manufacturer Operating Instructions.
3	sulphur Dioxide (SO ₂)	µg/m ³	13	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	0.8	4.0	IS 5182(Part 10):1999, RA 2003

Note: * Duration of sampling for CO - 1 Hour


REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS


 AUTHORIZED SIGNATORY

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



HDD-272, PHASE III - NEAR JP CHOWK,
BUNG ROAD NO -C, KAIRI NAGAR, RAIPUR, C.G. -99
PH - 0771-2972264 ; EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/18-19/02925	
LAB REF NO	UES/18-19/AAQM/2825	
DATE OF SAMPLING	22/02/2019	
DATE OF RECEIPT	23/02/2019	
DATE OF REPORT	01/03/2019	
DATE OF ANALYSIS	START:25/02/2019	END:27/02/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/DO/ENV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	NLI COLONY,HOVSEEL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERANCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RHUMER BLEACHER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	66	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	35	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	24	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	29	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	ng/m ³	1.8	4.0	IS 5182(Part 10):1999, RA 2003

Note: * Duration of sampling for CO - 1 Hour

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HNO-272, PHASE III - NEAR J.P. CHAIKIN,
RING ROAD NO -2, KANAR NAGAR RAIPUR, C.G. -99
PH - 0771-2972364 ; EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE,VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/18-19/02826	
	LAR REF NO	UES/18-19/AAQH/2826	
	DATE OF SAMPLING	22/02/2019	
	DATE OF RECEIPT	23/02/2019	
	DATE OF REPORT	01/03/2019	
	DATE OF ANALYSIS	START: 26/02/2019	END: 27/02/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	ETP AREA , NONGREL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LXI NO., FILTER PAPER (PM _{2.5}): LXI NO. SO ₂ : JOMEXI NO. PVC BOTTLE, NO ₂ : JOMEXI NO. PVC BOTTLE REDDIER BLANDER: LXI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	50	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	25	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	19	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	24	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.5	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: * Duration of sampling for CO - 1 hour

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

 AUTHORIZED SIGNATORY

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



HDD-272, PHASE-BI- NEAR JP CHOWN,
 BLYG ROAD NO -2, RAIR NAGAR, RAIPUR, C.G. -39
 PFI - 0771-2972364 ; EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE, VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/18-19/03019	
LAB REF NO	UES/18-19/AAQM/3019	
DATE OF SAMPLING	12/03/2019	
DATE OF RECEIPT	13/03/2019	
DATE OF REPORT	27/03/2019	
DATE OF ANALYSIS	START: 15/03/2019	END: 18/03/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/ENV/1819/0084, DTD. 07.08.2019
SAMPLING LOCATION	MAIN OFFICE AREA, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM10): LXL NO., FILTER PAPER (PM2.5): LXL NO. SO2: JOMLKI NO. PVC BOTTLE, SO2: JOMLKI NO. PVC BOTTLE RUBBER BLADDER: LXL NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	53	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	28	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	14	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	22	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.1	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: * Duration of sampling for CO - 1 Hour

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS


 AUTHORIZED SIGNATORY

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



HDO-272, PHASE III- NEAR JP CHOKK,
RING ROAD NO - 2, KASHI NAGAR, RAIPUR, C.G. - 99
PH - 0771-2972364 . EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/18-19/03020	
LAB REF NO	UES/18-19/AAQM/3020	
DATE OF SAMPLING	12/03/2019	
DATE OF RECEIPT	13/03/2019	
DATE OF REPORT	27/03/2019	
DATE OF ANALYSIS	START: 15/03/2019	END: 18/03/2019

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	H/20/SRV/1818/0044, DTD. 07.08.2018
SAMPLING LOCATION	STAFF QUARTER, MILUPARA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): LXI NO., FILTER PAPER (PM _{2.5}): LXI NO. SO ₂ : 30MLX NO. PVC BOTTLE, NO ₂ : 30MLX NO. PVC BOTTLE SULPHUR DIOXIDE: LXI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	49	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	22	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	11	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	0.8	4.0	IS 5182(Part 10):1999, RA 2003

Note: * Duration of sampling for CO - 1 Hour

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



IND-272, PHASE II - NEAR JI CHOKK,
RING ROAD NO -2, KASHI NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G
COAL MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/10-19/03022	
LAB REF NO	UES/10-19/AAQM/3022	
DATE OF SAMPLING	13/03/2019	
DATE OF RECEIPT	14/03/2019	
DATE OF REPORT	27/03/2019	
DATE OF ANALYSIS	START: 15/03/2019	END: 18/03/2019

SAMPLE DETAILS

MONITORING FOR	AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/001/1019/0004, DTD. 07.08.2018
SAMPLING LOCATION	STP AREA, HONDEEL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1KI NO., FILTER PAPER (PM _{2.5}): 1KI NO. SO ₂ : 30MLKI NO. PVC BOTTLE, NO ₂ : 30MLKI NO. PVC BOTTLE RUBBER BLADDER: 1KI NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	55	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO ₂)	µg/m ³	16	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m ³	1.4	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: * Duration of sampling for CO - 1 Hour

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

.....End of the test report.....



HDD-272 PHASE-B- NEAR JP CHOUR,
RING ROAD NO -2 KARI NAGAR RAIPUR, C.G. -99
PH - 0771-2972369 | EMAIL: ultimatenwire@gmail.com



Name & Address of The Customer		REPORT NO	UES/TR/11/18-19/01582
TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, COAL MINE, VILLAGE - BANKHETA, POST -MILUPARA, DISTT. - RAIGARH (C.G.) 496 107		LAB REF NO	UES/18-19/3/1582
		DATE OF REPORT	29/10/2018
		DATE OF SAMPLING	24/10/2018 to 25/10/2018
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRY/1819/0094, Dtd. 07.08.2018
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE RECEIVED ON	MONITORING AT	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, MILUPARA	DB (A)	55	51	75	70
INCLINE AREA, MILUPARA	DB (A)	62	59		
BUMPH ANKA, MILUPARA	DB (A)	63	57		
DS SRT AREA, KONDKEL	DB (A)	67	62		
NEIGHBORHOOD AREA, MILUPARA	DB (A)	59	55		
OFFICE AREA, KONDKEL	DB (A)	58	51		
DUNGER AREA, KONDKEL	DB (A)	65	60		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
SIKANDARA VILLAGE	DB (A)	48	40	55	45
HILL COLONY, KONDKEL	DB (A)	51	42		
HILL STAFF QUARTER, MILUPARA	DB (A)	43	38		
REMARKS: RESULTS ARE AS ABOVE					

Terms & conditions

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- > This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



POD-272, PHASE II - NEAR JP CHOWK,
RING ROAD NO -2, RAMBI NAGAR, RAIPUR, C.G. -99
PH - 0771-2972963, EMAIL:ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/5, COAL MINE,
VILLAGE - BANKHETA,
POST - MILUPARA,
DISTT. - RAIGARH (C.G.) 496 107

REPORT NO	UES/TR/II/18-19/01871
SAS REF NO	UES/18-19/N/1871
DATE OF REPORT	30/11/2018
DATE OF SAMPLING	23/11/2018 to 24/11/2018

SAMPLE DETAILS

MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	M/PO/ENV/1818/0004, DTD. 07.08.2018
SAMPLING LOCATION	INHIBIT COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE RECEIVED ON	MONITORING AT	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, MILUPARA	DB(A)	54	50	75	70
INCLINE AREA, MILUPARA	DB(A)	67	62		
BUNKER AREA, MILUPARA	DB(A)	64	59		
DO SET AREA, KONGKEL	DB(A)	59	57		
WATERBRIDGE AREA, MILUPARA	DB(A)	60	55		
OFFICE AREA, KONGKEL	DB(A)	56	51		
BUNKER AREA, KONGKEL	DB(A)	58	54		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
SIDAPARA VILLAGE	DB(A)	51	40	55	45
HIL COLONY, KONGKEL	DB(A)	52	42		
HIL STAFF QUARTER, MILUPARA	DB(A)	41	39		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- > This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



ADD-272 PHASE II- NEAR JP CHOWK,
BYP ROAD NO -2, KABIR NAGAR, RUPUR, C.G. -99
PH - 0771-292264 | EMAIL-ultimatenvire@gmail.com



Name & Address of the Customer

**TO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/5, COAL MINE,
VILLAGE - BANKHETA,
POST -MILUPARA,
DISTT. - RAIGARH (C.G.) 496 107**

REPORT NO	UES/TR/II/18-19/02096
LAR REF NO	UES/18-19/X/2096
DATE OF REPORT	29/12/2018
DATE OF SAMPLING	21/12/2018 to 22/12/2018

SAMPLE DETAILS

MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	M/20/GRV/1819/0004, DCD. 07.08.2019
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE RECEIVED ON	MONITORING AT	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, MILUPARA	DB(A)	52	51	75	70
INCLINE AREA, MILUPARA	DB(A)	66	64		
BUSSTOP AREA, MILUPARA	DB(A)	69	66		
DG SET AREA, KONKREL	DB(A)	58	54		
NEIGHBORHOOD AREA, MILUPARA	DB(A)	62	59		
OFFICE AREA, KONKREL	DB(A)	54	53		
RUNNER AREA, KONKREL	DB(A)	61	59		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
BIDARPARA VILLAGE	DB(A)	50	41	55	45
WIL COLONY, KONKREL	DB(A)	51	43		
WIL STAFF QUARTER, MILUPARA	DB(A)	45	39		
REMARKS: RESULTS ARE AS ABOVE					

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- > This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE II- NEAR JP CHOWK,
RING ROAD NO-2, RAJIB NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, COAL MINE, VILLAGE - BANKHETA, POST -MILUPARA, DISTT. - RAIGARH (C.G.) 496 107		REPORT NO	UES/TR/18-19/02483
		LAR REF NO	UES/18-19/N/2483
		DATE OF REPORT	31/01/2019
		DATE OF SAMPLING	19/01/2019 to 20/01/2019
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	M/DO/ENV/1819/0084, DTD. 07.08.2018
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE RECEIVED ON	MONITORING AT	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, MILUPARA	DB (A)	53	50	75	70
INCLINE AREA, MILUPARA	DB (A)	65	63		
RINGER AREA, MILUPARA	DB (A)	68	64		
DG SET AREA, MONDROL	DB (A)	59	58		
NEIGHBORHOOD AREA, MILUPARA	DB (A)	61	59		
OFFICE AREA, MONDROL	DB (A)	56	51		
WORKER AREA, MONDROL	DB (A)	62	50		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
SIDAPANA VILLAGE	DB (A)	49	40	55	45
MIL COLONY, MONDROL	DB (A)	52	44		
MIL STAFF QUARTER, MILUPARA	DB (A)	47	39		

REMARKS: RESULTS ARE AS ABOVE

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- This is for information as the party has asked for above test(s) only.



For **ULTIMATE ENVIRONMENTAL SOLUTIONS**

[Signature]
AUTHORIZED SIGNATORY

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



HDD-272, PHASE III - NEAR JP CHOWK,
RING ROAD NO-8, KABIR NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 | EMAIL: ultimateenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/5, COAL MINE,
VILLAGE - BANKHETA,
POST -MILUPARA,
DISTT. - RAIGARH (C.G.) 496 107

REPORT NO	UES/TR/18-19/02834
LAB REF NO	UES/18-19/R/2834
DATE OF REPORT	01/03/2019
DATE OF SAMPLING	21/02/2019 to 22/02/2019

SAMPLE DETAILS

MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	H/PO/GRV/1819/0084, DFD. 07.08.2018
SAMPLING LOCATION	INMINE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE RECEIVED ON	MONITORING AT	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, MILUPARA	DB (A)	54	51	75	70
INCLINE AREA, MILUPARA	DB (A)	65	62		
BUNKER AREA, MILUPARA	DB (A)	67	63		
DG EST AREA, NONDEEL	DB (A)	60	58		
NEIGHBORHOOD AREA, MILUPARA	DB (A)	62	60		
OFFICE AREA, NONDEEL	DB (A)	55	52		
BUNKER AREA, NONDEEL	DB (A)	59	55		

LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
SIDAPARA VILLAGE (GOVT. SCHOOLS)	DB (A)	50	41	55	45
NEL COLONY, NONDEEL	DB (A)	52	43		
NEL STAFF QUARTER, MILUPARA	DB (A)	48	40		

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



100D-27C, PHASE III, NEAR JP CHOWK,
RING ROAD NO -2, KANKE NAGAR, RAIPUR, C.G. -99
PH - 0771-2972364 : EMAIL-ultimatenviro@gmail.com



NOTE: A APPROVAL BY THE CUSTOMER

TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, COAL MINE, VILLAGE - BANKHETA, POST -MILUPARA, DISTT. - RAIGARH (C.G.) 496 107	REPORT NO	UES/TR/18-19/03030	
	LAB REF NO	UES/18-19/N/3030	
	DATE OF REPORT	27/03/2019	
	DATE OF SAMPLING	12/03/2019 to 13/03/2019	
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	M/PO/ENV/1819/0084, DED. 07.08.2018
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE RECEIVED ON	MONITORING AT	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		
SAMPLE QUANTITY/PACKING	NOT APPLICABLE		

TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, MILUPARA	DB(A)	56	52	75	70
INCLINE AREA, MILUPARA	DB(A)	68	64		
BUNKER AREA, MILUPARA	DB(A)	72	68		
DO SET AREA, KONDKEL	DB(A)	66	60		
NEIGHBORHOOD AREA, MILUPARA	DB(A)	66	62		
OFFICE AREA, KONDKEL	DB(A)	58	54		
BUNKER AREA, KONDKEL	DB(A)	62	58		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
SIDRAPARA VILLAGE (GOVT. SCHOOL)	DB(A)	51	43	55	45
HIL COLONY, KONDKEL	DB(A)	53	42		
HIL STAFF QUARTER, MILUPARA	DB(A)	49	40		

REMARKS: RESULTS ARE AS ABOVE

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- This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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

HDD-272, PHASE III - NEAR JP CHOWK

RING ROAD NO - 2, KARIK NIGAR, RAIPUR, C.G. - 99

PH - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



Name & Address of The Donor:

YO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/S, MILUPARA U/G COAL
MINE, VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/01574	
LAR REF NO	UES/18-19/N/1574	
DATE OF SAMPLING	24/10/2018	
DATE OF RECEIPT	25/10/2018	
DATE OF REPORT	29/10/2018	
DATE OF ANALYSIS	START: 25/10/18	END: 27/10/2018

SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	M/P/ENV/1819/0064, DTD. 07. 08. 2018
CUSTOMER SAMPLE ID	SEP OUTLET-2	SAMPLE CONDITION AT RECEIPT	OK
JACKING OF SAMPLE	3 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN 1 L X 1 NO. GLASS BOTTLE	SEALED	SAMPLE COLLECTED BY
SAMPLING PROCEDURE	IS-5025(PART 2), 1997 RA 2003: APRA 22ND ED. 2012, 1060-B, 1-38	QUANTITY RECEIVED	5 LTR

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Haze n	APRA 22 nd Ed. 2012, 2120-B, 2-6	See 6 of Annexure-I	Absent
2	Temperature	°C	APRA 22 nd Ed. 2012, 2120-B, 2-13	Shall not exceed 5°C above the receiving water temperature	26.2
3	pH	-	APRA 22 nd Ed. 2012, 2500-H-6, 2-92	5.5 to 9.0	7.2
4	Total Residual Chlorine	mg/L	APRA 22 nd Ed. 2012, 4500-Cl-G, 4-82	1.0	N.D.
5	Total Suspended Solids	mg/L	APRA 22 nd Ed. 2012, 2540- D, 3-66	100	20.4
6	Dissolved Phosphate (as P)	mg/l	APRA 22 nd Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/l	APRA 22 nd Ed. 2012, 4500-F-B 4D, 4-94 & 87	2.0	0.29
8	Lead (as Pb)	mg/L	APRA 22 nd Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/L	APRA 22 nd Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	APRA 22 nd Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/L	APRA 22 nd Ed. 2012, 3500-Cd, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/L	APRA 22 nd Ed. 2012, 3111-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/L	APRA 22 nd Ed. 2012, 3111-C, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/L	APRA 22 nd Ed. 2012, 3111-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	APRA 22 nd Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	APRA 22 nd Ed. 2012, 5520-E, 6-17	250	62.6
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1993, RA 2003	30	15.8
18	Oil & Grease	mg/L	IS 3025 (Part 35):1993, RA 2003	10	N.D.
19	Phenolic Compounds (as Ca(OH))	mg/L	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

Note: mg/lit. milligram per liter, BDL: Below Detection Limit, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Your sample will be retained for 60 days after date of test report unless otherwise agreed with customer.
- This is for information of the party has asked for above report only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

End of the test report



HOD - 272, PHASE III - NEAR JP CHOWK,

RING ROAD NO - 2, KANUR NAGAR, RAIPUR, C.G. - 99

PH - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED,
GARE PALMA - IV/5, MILUPARA U/G COAL
MINE, VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/01573
LAR REF NO	UES/18-19/W/1573
DATE OF SAMPLING	24/10/2018
DATE OF RECEIPT	25/10/2018
DATE OF REPORT	29/10/2018
DATE OF ANALYSIS	START: 25/10/18 RMD: 29/10/2018

SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER / REFERENCE:	R/PO/SH/1818/0004, DPO. 07.08.2018
CUSTOMER SAMPLE ID	KYD DUTLAP-II (ROUND)	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PFC CAN	SAMPLE COLLECTED BY	ONDSIT
	3 L X 1 NO. PFC CAN 1 L X 1 NO. GLASS BOTTLE		
SAMPLING PROCEDURE	IS 3025(PART 1):1987 RA 2003; AFSA 22ND ED. 2012, 1060-B, 1-29	QUANTITY RECEIVED	3 LTR

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Katen	AFSA 22 nd Ed. 2012, 2120-B, 2-6	See 6 of Annexure-I Shall not exceed 5°C above the surrounding water temperature	Absent
2	Temperature	°C	AFSA 22 nd Ed. 2012, 2130-B, 2-13	5.5 to 3.0	26.4
3	pH	-	AFSA 22 nd Ed. 2012, 4500-H-0, 4-92		7.2
4	Total Residual Chlorine	mg/L	AFSA 22 nd Ed. 2012, 4500-Cl-0, 4-88	1.0	N.D.
5	Total Suspended Solids	mg/L	AFSA 22 nd Ed. 2012, 2540-B, 2-46	100	22.4
6	Dissolved Phosphate (as P)	mg/L	AFSA 22 nd Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	AFSA 22 nd Ed. 2012, 4500-F-B 4D, 4-84 & 81	2.0	0.23
8	Lead (as Pb)	mg/L	AFSA 22 nd Ed. 2012, 3111-B, 3-40	0.1	N.D.
9	Zinc (as Zn)	mg/L	AFSA 22 nd Ed. 2012, 3111-B, 3-19	5.0	N.D.
10	Copper (as Cu)	mg/L	AFSA 22 nd Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/L	AFSA 22 nd Ed. 2012, 3500-Cd, 3-165	2.0	N.D.
12	Mercury (as Hg)	mg/L	AFSA 22 nd Ed. 2012, 3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/L	AFSA 22 nd Ed. 2012, 3114-C, 3-36	0.2	N.D.
14	Selenium (as Se)	mg/L	AFSA 22 nd Ed. 2012, 3114-C, 3-36	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	AFSA 22 nd Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	AFSA 22 nd Ed. 2012, 5520-B, 5-17	250	60.4
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1993, RA 2003	30	18.3
18	Oil & Grease	mg/L	IS 3025 (Part 3):1991, RA 2003	10	N.D.
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	IS 3025 (Part 4):1993, RA 2003	1.0	N.D.

Note: mg/lk-milligram per liter; BDL-Below Detection Limit, N.D.-Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- > This is for information as the party has asked for above test(s) only.



For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY

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

HDD-272, PHASE III - NEAR JP CHOWK,
RING ROAD NO-2, KABIR NAGAR, RAIPUR, C.G. - 99
PH - 0771-2922364 | EMAIL-ultimatenviro@gmail.com



Name & Address of The Customer

TO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/5, MILUPARA U/G COAL
MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UKS/TR/11/18-19/01864	
LAB REF NO	UES/18-19/W/1864	
DATE OF SAMPLING	24/11/2018	
DATE OF RECEIPT	25/11/2018	
DATE OF REPORT	30/11/2018	
DATE OF ANALYSIS	START:25/11/18	END:27/11/2018

SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE	M/PO/600/1018/0094, STD. 07.06.2016
CUSTOMER SAMPLE ID	STP OUTLET-1	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN 1 L X 1 NO. GLASS BOTTLE	SAMPLE COLLECTED BY	CHEMIST
SAMPLING PROCEDURE	IS:3025(PART 1):1992 RA 2003, AFSA 22ND ED. 2012, 1560-B, 3-39	QUANTITY RECEIVED	3 LTR

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Nazen	AFSA 22 nd Ed. 2012, 3190-B, 2-2	See 6 of Annexure-I	Absent
2	Temperature	°C	AFSA 22 nd Ed. 2012, 3130-B, 2-13	Shall not exceed 5°C above the receiving water temperature	25.9
3	pH	-	AFSA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92	5.5 to 9.0	7.3
4	Total Residual Chlorine	mg/L	AFSA 22 nd Ed. 2012, 4500-Cl ⁻ -G, 4-65	1.0	N.D.
5	Total Suspended Solids	mg/L	AFSA 22 nd Ed. 2012, 2540- ^o , 2-66	100	21.8
6	Dissolved Phosphate (as P)	mg/L	AFSA 22 nd Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	AFSA 22 nd Ed. 2012, 4500-F-R GB, 4-84 & 27	2.0	0.22
8	Lead (as Pb)	mg/L	AFSA 22 nd Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/L	AFSA 22 nd Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	AFSA 22 nd Ed. 2012, 3111-B, 3-20	3.0	N.D.
11	Cadmium (as Cd)	mg/L	AFSA 22 nd Ed. 2012, 3560-06, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/L	AFSA 22 nd Ed. 2012, 3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/L	AFSA 22 nd Ed. 2012, 3114-C, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/L	AFSA 22 nd Ed. 2012, 3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	AFSA 22 nd Ed. 2012, 3500-Cr-B, 3-65	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	AFSA 22 nd Ed. 2012, 1570-B, 5-17	250	65.8
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1993, RA 2003	30	16.4
18	Oil & Grease	mg/L	IS 3025 (Part 3):1992, RA 2003	10	N.D.
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	IS 3025 (Part 4):1992, RA 2003	1.0	N.D.

Note: mg/L:-milligram per liter, BDL: Below Detection Limit, N.D.-Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- This is for information only if the party has asked for above tests only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE III- NEAR JP CHOKK

RING ROAD NO - 2, KARRI NAGAR, RAIPUR, C.G. - 99

PH - 0771-2972364 / EMAIL-ultimateenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/5, MILUPARA U/G COAL
MINE, VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/II/18-19/01863	
LAB REF NO	UES/18-19/W/1863	
DATE OF SAMPLING	24/11/2018	
DATE OF RECEIPT	25/11/2018	
DATE OF REPORT	30/11/2018	
DATE OF ANALYSIS	START:25/11/18	END:28/11/2018

SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORIGIN /REFERENCE:	M/NO/ENV/1818/S084, SDO. 07.08.2018
CUSTOMER SAMPLE ID	EFF OUTLET-15 (KONDAEL)	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN 1 L X 1 NO. GLASS BOTTLE	SEALING	SAMPLE COLLECTED BY
SAMPLING PROCEDURE	IS:3025(PART 1):1997 RA 2003; APHA 22ND ED. 2012, 1060-B, 1-29	QUANTITY RECEIVED	5 LTR

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Naren	APHA 21 st Ed. 2012, 11204B, 2+6	See 6 of Annexure-1	Absent
2	Temperature	°C	APHA 21 st Ed. 2012, 2120-6, 2-13	shall not exceed 5°C above the prevailing water temperature	25.8
3	pH	-	APHA 21 st Ed. 2012, 4500-H ⁺ -8, 4+92	5.5 to 9.0	7.3
4	Total Residual Chlorine	mg/L	APHA 22 nd Ed. 2012, 4500-Cl-8, 4-69	1.0	N.D.
5	Total Suspended Solids	mg/L	APHA 22 nd Ed. 2012, 2540+ D, 2-66	100	22.3
6	Dissolved Phosphate (as P)	mg/L	APHA 22 nd Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	APHA 22 nd Ed. 2012, 4500-F-B 6D, 4-34 & 87	2.0	0.23
8	Lead (as Pb)	mg/L	APHA 22 nd Ed. 2012, 3111-B, 3-16	0.1	N.D.
9	Zinc (as Zn)	mg/L	APHA 22 nd Ed. 2012, 3111-B, 3-16	5.0	N.D.
10	Copper (as Cu)	mg/L	APHA 22 nd Ed. 2012, 3111-B, 3-16	3.0	N.D.
11	Cadmium (as Cd)	mg/L	APHA 22 nd Ed. 2012, 3500-CD, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/L	APHA 22 nd Ed. 2012, 3121-B, 3-25	0.01	N.D.
13	Arsenic (as As)	mg/L	APHA 22 nd Ed. 2012, 3121-C, 3-28	0.2	N.D.
14	Selenium (as Se)	mg/L	APHA 22 nd Ed. 2012, 3021-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	APHA 22 nd Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	APHA 22 nd Ed. 2012, 5520-B, 5-17	250	66.4
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1990, RA 2003	30	16.2
18	Oil & Grease	mg/L	IS 3025 (Part 35):1991, RA 2003	10	N.D.
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

Note: mg/Lt. milligram per liter, BDL: Below Detection Limit, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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- This is for information as the party has asked for above tests only.



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HDD-272, PHASE III - NEAR P/ CHOWK,
RING ROAD NO - 2, KARBI NIGAR, RAIPUR, C.G. - 99
Ph - 0771-2972364 | EMAIL-ultimatenviro@gmail.com



Name & Address Of The Customer

TO,
HINDALCO INDUSTRIES LIMITED, GARE
PALMA - IV/5, MILUPARA U/G COAL
MINE,VILLAGE - MILUPARA,
BLOCK-TAMNAR,
DISTT. - RAIGARH (C.G.) 496107

REPORT NO	UES/TR/11/18-19/02089
LAB REF NO	UES/18-19/W/2089
DATE OF SAMPLING	22/12/2018
DATE OF RECEIPT	23/12/2018
DATE OF REPORT	29/12/2018
DATE OF ANALYSIS	START:24/12/18 END:27/12/2018

SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	M/NO/200/1019/0094, REV. 07.09.2014
CUSTOMER SAMPLE ID	EFF OULET-II (KUMDEK)	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN SEALED 1 L X 1 NO. GLASS BOTTLE	SAMPLE COLLECTED BY	CHECKED
SAMPLING PROCEDURE	IS:3025 (PART 7), 1997 RA 2003; APHA 22ND ED. 2012, 2000-B, 1-39	QUANTITY RECEIVED	5 LTR

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 (SCHEDULE-VI) PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	None	APHA 22 nd Ed. 2012, 2196-B, 2-6	see 6 of Annexure-1	Absent
2	Temperature	°C	APHA 22 nd Ed. 2012, 2136-B, 7-13	shall not exceed 5°C above the receiving water temperature	23.0
3	pH	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92	5.0 to 9.0	7.7
4	Total Residual Chlorine	mg/L	APHA 22 nd Ed. 2012, 4500-Cl ⁻ -G, 4-69	1.0	N.D.
5	Total Suspended Solids	mg/L	APHA 22 nd Ed. 2012, 2540-D, 2-64	100	23.2
6	Dissolved Phosphate (as P)	mg/L	APHA 22 nd Ed. 2012, 4500-P-C, 4-193	5.0	N.D.
7	Fluoride (as F)	mg/L	APHA 22 nd Ed. 2012, 4500-F-B 4D, 4-84 & 87	2.0	0.22
8	Lead (as Pb)	mg/L	APHA 22 nd Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/L	APHA 22 nd Ed. 2012, 3111-G, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	APHA 22 nd Ed. 2012, 3111-G, 3-18	5.0	N.D.
11	Cadmium (as Cd)	mg/L	APHA 22 nd Ed. 2012, 3500-Cd, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/L	APHA 22 nd Ed. 2012, 3111-C, 3-28	0.2	N.D.
13	Arsenic (as As)	mg/L	APHA 22 nd Ed. 2012, 3111-C, 3-28	0.05	N.D.
14	Selenium (as Se)	mg/L	APHA 22 nd Ed. 2012, 3024-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	APHA 22 nd Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	APHA 22 nd Ed. 2012, 5520-B, 5-17	250	76.0
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 44):1993, RA 2003	30	18.4
18	Oil & Grease	mg/L	IS 3025 (Part 49):1991, RA 2003	10	N.D.
19	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

Note: mg/ltr. = milligram per liter, SDL: Below Detection Limit, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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

	HDD-272, PHASE II - NEAR JP CROWN, RING ROAD NO - 2, KAHIR NAGAR, RAIPUR, C.G. - 99 PH - 0771-2972304 EMAIL-ultimateriviro@gmail.com	
	Name & Address Of The Customer	

TO, HINDALCO INDUSTRIES LIMITED, GARE PALMA - IV/5, MILUPARA U/G COAL MINE,VILLAGE - MILUPARA, BLOCK-TAMNAR, DISTT. - RAIGARH (C.G.) 496107	REPORT NO	UES/TR/18-19/02474	
	LAB REF NO	UES/18-19/W/2474	
	DATE OF SAMPLING	19/01/2019	
	DATE OF RECEIPT	21/01/2019	
	DATE OF REPORT	31/01/2019	
	DATE OF ANALYSIS	START:21/01/2019	END:25/01/2019
SAMPLE DETAILS			
SAMPLE TYPE	AFFLUENT WATER	ORDER /REFERENCE:	M/PO/ENV/1818/0004, SFD, 07.08.2018
CUSTOMER SAMPLE ID	EFF OUTLET (KUMHRL)	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	2 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN 2 L X 1 NO. GLASS BOTTLE	FRASID	SAMPLE COLLECTED BY
SAMPLING PROCEDURE	IS 3025 (PART 2):1997 RA 2003: APNA 22ND ED. 2012, 3050-B, 2-22	QUANTITY RECEIVED	5 LTR



TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Nasen.	APHA 2004 Ed. 2012, 2130-B, 2-6	Sec 6 of Env-Pro-1	Absent
2	Temperature	°C	APHA 2004 Ed. 2012, 2130-B, 2-13	shall not exceed 3°C above the receiving water temperature	25.2
3	pH	-	APHA 22nd Ed. 2012, 4500-H ⁺ , 4-52	5.5 to 9.0	6.0
4	Total Residual Chlorine	mg/L	APHA 22nd Ed. 2012, 4500-Cl-5, 4-59	3.0	N.D.
5	Total Suspended Solids	mg/L	APHA 22nd Ed. 2012, 2540-D, 2-66	100	23.6
6	Dissolved Phosphate (as P)	mg/L	APHA 22nd Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	APHA 22nd Ed. 2012, 4500-F-B 45, 4-84 & 87	2.0	0.23
8	Lead (as Pb)	mg/L	APHA 22nd Ed. 2012, 3111-B, 3-19	0.1	N.D.
9	Zinc (as Zn)	mg/L	APHA 22nd Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	APHA 22nd Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/L	APHA 22nd Ed. 2012, 3000-CD, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/L	APHA 22nd Ed. 2012, 3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/L	APHA 22nd Ed. 2012, 3114-B, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/L	APHA 22nd Ed. 2012, 3011-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	APHA 22nd Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	APHA 22nd Ed. 2012, 5520-B, 5-17	250	78.2
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1993, RA 2003	30	19.1
18	Oil & Grease	mg/L	IS 3025 (Part 5):1991, RA 2003	10	0.5
19	Phenolic Compounds (as Catechol)	mg/L	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

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