

Letter No.:-HIL/EC/GP-IV/4/2019/233

Date: 28.05.2019

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/4 coal mine along with Environmental Monitoring reports of Ambient Air, Water, and Noise etc.**

Ref. Environment Clearance No. J-11015/ 183/2010-IA.II (M) Dated: - 16<sup>th</sup> 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 report 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,

*(Dipesh Bhatia)*  
 (Dipesh Bhatia)  
 Vice President

Gare Palma IV/4, Tamnar, District: Raigarh, Chhattisgarh – 496107.

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

CC To:

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

Hindalco Industries Limited

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Compliance Report on Environment Clearance for Gare-Pelma IV/4 coal mining project given by Ministry of Environment Forests & Climate Change vide letter No. – J-11011/183/2010-IA.II (M) Dated: - 16th April 2015 for Under Ground & Opencast Mining of Coal 1.0Million Ton/Annum Production Capacity.

Sr. 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-11015/183/2010-IA.II (M) dated 12 <sup>th</sup> March, 2013 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 (EC) Gare-Pelma IV/4 coal mining project given by Ministry of Environment & Forests vide letter No. – J-11011/183/2010-IA.II (M) Dated: - 12th March 2013 for Open Cast & Under Ground Mining of Coal 1.0 Million Ton/Annum Production Capacity.

Sr. No.	EC Conditions	Compliance status
1	The Maximum production from the mines shall not exceed beyond that for which environmental clearance has been granted for i.e. 0.48 MTPA to 1.0MTPA of which 0.4 MTPA OC and 0.6 MTPA UG in ML area of 701.512 ha)	Production from this Mines for the financial year 2018-19 till 31 <sup>st</sup> March is 0.3999 MTPA from OC and 0.4384 MTPA from UG which is in line with EC. This conditions is agreed and same will be complied in future also accordingly.
2	The calendar plan should be uploaded on MOEF website.	As per Calendar plan we have production of 0.4 MTPA from OC and 0.6MTPA from UG in the FY 2018-19 which is as per approved Mine Plan. We request MoEF & CC to upload the same

		on their website please. In future if there is any change in calendar plan the same will be intimated to MoEF & CC for its uploading.
3.	The coal transportation by road is up to 270 km at Raipur by road presently with tarpaulin covered trucks and partially by rail up to Bhupdevpur. After new siding comes up which is approximately 3 km away for changing over to rail transport. The coal transportation by road should be by mechanically covered trucks. The mode of transportation shall be shifted to by rail by 2017.	This particular condition is not applicable to us since, as per Vesting order by Ministry of Coal, GOI, Coal is being used in the captive power plant of HIL located at Hirakud and Lapanga District Sambalpur, Odisha and mode of transportation is will be by road. We are transporting the coal by road by covered trucks.
4.	Karanj should be deleted from the list of native species for plantation program.	Karanj will not be planted in mining area.
5	Rs. 5/T of coal/annum till the end of life of project with the escalation factor of coal production.	As per condition Rs. 5/T is being utilized under CSR activities under guidance of district collector Raigarh. Expenditure details enclosed as <b>Annexure-I</b>
6	No external OB dump will be left after mine operation and shall be backfilled in the mine void.	We have not created any external dump since the start of mining operation i.e. from 3 <sup>rd</sup> December, 2015. The OB generated has been backfilled into the mining voids which still continuing and thus in future there will not be any external OB dumping by Hindalco. The OB dumping is being/will be done as per approved Mining Plan.
7	The proponent shall take necessary action on the issues raised during public hearing.	Under the CSR and other activities the issues raised during public hearing is being taken care by the company.
8	The coal will be used in existing steel plant of proponent.	This particular condition is not applicable to us, since as per Vesting order by Ministry of Coal, GOI, Coal is being used in the captive power plant of HIL located at Hirakud and Lapanga, District Sambalpur, Odisha.
9	The Mine Planning is done in such manner that underground mining is proposed below forest land and opencast mining under Government waste land /agriculture land. Hence tree	Mining is being done in such manner that underground mining is being done below forest land and opencast mining

	cutting from forest land is not proposed during expansion proposal. However if required plantation will be done 10 times of tree felling in the project affected area.	is being done under Government waste land /agriculture land. Planation in the mine lease area is being carried out @2500 plant/ha. Total 79500 nos. local plants species have been planted till date in mine lease area including OB dump area. Plantation details are enclosed as <b>Annexure- II</b> .
10	Kelo river and Bendra Nallah shall not be disturbed.	Kelo river and Bendra Nallah will not be disturbed.
11	External OB dump of 0.67 million cubic meters will be created as reported in closure plan of first year. This external dump will be re handled and backfilled in subsequent years. There will be no external dump left after the mine operation.	We have not created any external dump since the start of mining operation i.e. from 3rd December, 2015. The OB generated has been backfilled into the mining voids which still continuing and thus in future there will not be any external OB dumping by Hindalco. OB dumping is being/will be done as per approved Mining Plan.
12	Biological reclamation of all external dumps will be done progressively after leveling these dumps. This will provide stability and prevent soil erosion from dumps. The total top soil generated (1.14 m.cum B) during the development of mine will be stacked separately in a soil stack pile in between the pit and the surface dump over an area of 7.12 Ha.	Biological reclamation of all external dumps is being done and also will be done with the progress of mining in future. This will provide stability and prevent soil erosion from dumps. Top soil generated during mining activities are being kept at separate location and during biological reclamation it is being used. In future also top soil will be stacked separately and will be used for reclamation purpose.
13	The report Titled " Flora and Fauna and conservation plan for endangered species of Gare-IV/8 coal block approved by The PCCF (Wildlife) of Chhatisgarh, dated 22.11.2011 states that there is no national park, tiger reserve, eco-sensitive zones within 15 km radius. It was informed that this area is neither affected by elephant corridor exists. However, there are occasional presence of elephants and other wild lives.	Noted please. Company will comply with mitigative measure as suggested by competent authority if any in this regard in future also.
14	A Wildlife Conservation Plan for the conservation and protection of wildlife in the study area has been approved at a cost of Rs. 1.0 crore and shall be implemented by the proponent in consultation with Department of Forest and Wildlife, Govt. of Chhattisgarh. The WLCP shall be comprise of components of habitat improvement and conservation of	Noted please. Rs.One crore has been deposited to state forest department by the prior allottee against Wildlife conservation plan. Company will comply with mitigative measure as

	<p>biodiversity, provision of water holes, and augmenting water bodies, nursery and plantation of species of natural food and fodder found in the natural habitat salt licks, measures for the protection against forest fires and poaching, awareness campaign of villagers in the study area and compensation in case of man animal conflicts. The status of implementation of WL Conservation Plan including budgetary provision of various activities and status of expenditure shall be regularly, uploaded on the website of the forest and wildlife Department of Government of Chhattisgarh and of the project proponent and the status shall be regularly reported to this Ministry and the MoEF Regional Office, as part of the compliance report.</p>	<p>suggested by competent authority if any in this regard in future also.</p>
15	<p>As per the approved plan of the Flora and Fauna and Conservation plan for endangered species of Gare IV/4 coal block" and recommended the PCCF (Wildlife), Rs. One crore be deposited, at one time. With the department of forest and wildlife, Govt. of Chhattisgarh for the implementation of the plan.</p>	<p>Rs. One crore has been deposited to state forest department by the prior allottee against Wildlife conservation plan. Company will comply with mitigative measure as suggested by competent authority if any in this regard in future also.</p>
16	<p>The project authority shall also participate in a Regional action plan of the State Government for the conservation of flora and fauna found within the study area, in addition to the above funds shall also contribute financially for implementation of RWLCP. Habitat development such as grassland/conservation measures along the migratory route/habitats of elephants found/ visiting the area shall form a part of the regional action plan.</p>	<p>The company will participate in regional action plan of the State Government for the conservation of flora and fauna of the area, as per directives of the authority. Company will comply with mitigative measure as suggested by competent authority if any in this regard in future also.</p>
17	<p>It will be used for growing plants along the fringes of the side roads and reclamation of external dump and backfilled area. The topsoil stockpile will be low height not exceeding 6 m and will be made use for concurrent filling without keeping the top soil for a long period.</p>	<p>Topsoil is being used for Plantation all along road side. The topsoil stockpile is low in height not exceeding 6 m and this is being used and will be used for concurrent filling without keeping the top soil for a long period.</p>
18	<p>The OB dump for the South Quarry dump will be spread over 13.75 Ha. area on the south and eastern part of south quarry while the mining operation will start from north and advance towards south and west. Part of OB excavated from the mine from 1st year and part of 2nd year (3.91 Mm<sup>3</sup>) will be accommodation in it including top soil for afforestation. The height of dump achieved during 1st and 2nd year will be 6 m to 20 m respectively.</p>	<p>The over burden management is being done as per approved mining plan.</p>

19	<p>The O.B. left in external dump will be re handled and backfilled in the void after the extraction of coal is completed, this will make the operation of UG mining safe as no water will be logged in the quarry. The OB will be temporarily stored which primarily consist of sand stone and shale which does not contain any heavy metal. As per the reclamation plan, the entire OB will be re handled and biologically reclaimed with local grass to minimize fugitive emission as well to control surface runoff.</p>	<p>The over burden management is being done as per approved mining plan. As per the reclamation plan, the external dump be biologically reclaimed with local species and grass to minimize fugitive emission as well to control surface runoff. Backfilling has already started.</p>
20	<p>Topsoil generated in the balance life of mine should be stacked properly with proper slope at earmarked site (s) and should not be kept active and shall be used for reclamation and development of green belt.</p>	<p>Presently topsoil is being stacked properly and topsoil to be generated in the balance life of mine will be stacked properly with proper slope at earmarked site (s) and will not be kept active. The stocked topsoil is being /will be used for reclamation and development of green belt.</p>
21	<p>OB generated in the balance life of mine should be stacked at earmarked one external OB dumpsite within ML area. The ultimate slope of dump shall not exceed 28°. Monitoring and management of reclaimed dumpsite should continue until the vegetation becomes self- sustaining. Compliance status should be submitted to the Ministry of Environment &amp; Forests and its Regional offices located at Bhubaneswar on yearly basis. The area of OB dump should be reduced. The grass turving should be done on OB dumps.</p>	<p>The ultimate slope of OB dump created earlier is being maintained. Monitoring and management of reclaimed dump site until the vegetation becomes self-sustaining is being carried out. The compliance report on OB management plan is being submitted in Environmental Statement report to Regional office of MOEF &amp; CC on regular basis. Currently OB dumping is being carried out as per approved mining plan and same will be continue in future.</p>
22	<p>Adequate numbers of sprinklers should be provided on both the side of road to minimize pollution.</p>	<p>Adequate numbers of truck mounted water sprinklers and fixed type sprinklers have been engaged / installed for the haul road and transportation road.</p>
23	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient, length,) and sump capacity should be designed 50 % safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site.</p>	<p>Catch drains and siltation ponds of appropriate size has been constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected is being utilized for watering the mine area, roads, green belt development, etc. The drains are regularly de-silted and maintained properly. Garland drains has been</p>

	Sump capacity should also provide adequate retention period to allow proper settling of silt material.	constructed with proper size, gradient and length. Adequate Sump capacity has been provided along with adequate retention period so as to allow proper settling of silt material.
24	Dimension of retaining wall at the toe of the dumps and OB benches within the mine to check run -off and siltation should be based on rain fall data.	The Dump slope stability study has been carried out by Indian School of Mines, Dhanbad. The provision mentioned herewith will be taken care for designing dimensions of toe wall and OB benches in the mines.
25	Water sprinkling system (mist spray type) shall be provided to check fugitive emission from conveyor system, haulage roads and transfer points.	Water sprinkling arrangement has been maintained at all haul roads, conveyor system, loading and unloading points. Thus fugitive dust emission are under control.
26	Fixed sprinkler shall be installed at pit top truck loading hoppers in all the three mines, siding for dust control during coal loading. Adequate numbers of sprinklers should be provided on both the sides of road to minimize dust pollution.	As per requirement, fixed type water sprinklers as well as truck mounted water sprinklers has been provided in the mines and other places.
27	Drills should be wet operated only.	In coal mining wet drilling is under practice.
28	An action plan for mine closure with details of area, depth, voids and details of abandoned mine should be submitted to the Ministry.	Noted please. Prior allottee has already submitted the approved mining plan and same has also mentioned in EIA/EMP report submitted to MOEF for EC.
29	Controlled blasting should be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly of rocks and boulders should be implemented.	Controlled blasting is under practice with use of delay detonators.
30	Transportation shall be by covered trucks of higher capacity (25 -tonne) and loading shall be by siding. Mechanically covered trucks should be provided for transportation of coal.	Transportation is being done with tarpaulin covered trucks.
31	Area brought under afforestation from the three mines shall be by planting native species in consultation with local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	Planation in mines area is being done. At present around 79500 nos. of trees have been planted in mine lease area including OB dump. Species planted are Gulmohar, Ashoka Aam, Imli, Shisam,

		Eucalyptus, Neem, Jamun, Accassia spp. etc. in consultation with local DFO. Plantation is being carried out @2500 per hectare.
32	Extensive plantation should be done near agriculture area to avoid coal dust pollution which may affect the productivity of crop.	Extensive plantation near agriculture land along road side is being done and will be done in future to avoid coal dust pollution which may affect the productivity of crop.
33	Mine discharge water shall be treated to meet the prescribed standards before discharge into the natural water course/agriculture. The quality of water discharge shall be monitored at the outer point and proper records maintained thereof and uploaded regularly on the company website.	Settling ponds with chemical dosing arrangement and sump with adequate capacity (for sedimentation) has been provided for the mine seepage water treatment before discharge for the agriculture purpose. The water quality analysis report is enclosed as <b>Annexure -III.</b>
34	No ground water shall be used for mining activities; additional water required if any shall be met from mine water or by recycling /reuse of water from existing activities and from rainwater harvesting measures. The project authority shall meet water requirement of nearby village (s) in case the village wells go dry to dewatering of mine.	For the mining activity only mine seepage water is being used after treatment in ETP. To meet the water requirement of nearby villages company is providing treated water through pipeline and other mode for domestic and irrigation purpose.
35	Regular monitoring of groundwater level and quality of the study area shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (August), Post- monsoon (November), and winter (January) seasons and for quality including Arsenic and Fluoride during the month of May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board /SPCB quarterly within one month of monitoring. Rain water harvesting shall be undertaken in case monitoring of water table indicates a declining trend.	Regular monitoring of groundwater level and quality of the area is being carried out by establishing a network of existing wells. The Ground water level and quality Monitoring report is enclosed as <b>Annexure-IV.</b> The report of Post- monsoon and winter season is enclosed as above. Non working mine pit has been developed as rain water harvesting structure in the mines.
36	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 should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material.	In Gare Palma IV/4 coal mine the method of underground coal mining is Board & 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





	Cracks should be effectively plugged with ballast and clayey soil/suitable material.	and surroundings is being done by internal expert team. During the observation no any subsidence movement has been observed. In future, if any subsidence movement, occurred then 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.
37	Sufficient coal pillars shall be left un-extracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	Sufficient coal pillars is/will be left un-extracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence.
38	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	High root density tree species will be selected and planted over areas likely to be affected by subsidence as required.
39	Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains.	As of now depression due to subsidence is not observed. In future if such depression gets observed resulting in water accumulating, the same will be filled up or drained out by cutting drains, if any
40	Solid barriers shall be left below the village, roads falling within the blocks to avoid any damage to the roads.	Solid barriers is left below the village, roads falling within the blocks to avoid any damage to the roads as per statute.
41	No depillaring operation shall be carried out below the roads and habitation area found within the lease.	No depillaring operation will be carried out below the roads and habitation area found within the lease.
42	The proponent shall ensure to undertake and provide the costs incurred for taking up remedial measures in case of soil.	Cost incurred for taking remedial measures in case of soil will be borne by the company.
43	Extensive plantation should be done near agriculture area to avoid coal dust pollution which may affect the productivity of crop.	Extensive planation along road side has been done near the agriculture area to avoid coal dust pollution which may affect the productivity of crop.  The same will be continue in other areas also.

44	ETP shall be provided for workshop, CHP, if any. Effluent shall be treated to conform to prescribe standards in case discharge in to any water course outside the lease. The quality of water discharged shall be monitored at the outer point and proper records maintained thereof and uploaded regularly on the company website.	Water treatment facility has been provided in mines for the seepage water treatment. The quality of treated water is being monitored. The water quality analysis report is enclosed as Annexure -III
45	A detailed plan for CSR with specific budgetary allocation (capital and revenue) for various skill development and alternate livelihood programmes and schemes shall be implemented and the impacts activities under CSR monitored based on in a scientific methodology. An amount of Rs. 5 per tonne of coal produced with escalation factor shall be utilized for the CSR activities for the adjoining villages for the balance life of project apart from one time capital expenditure. The details of CSR undertaken along with budgetary provisions for the village wise various activities and expenditure thereon shall be uploaded on the company website every year. CSR Audit should be carried conducted annually.	Rs. 5/- per ton of coal produce is being utilized for CSR activities under the guidance of District Collector, Raigarh. CSR Expenditure detail is enclosed as Annexure-I.
46	A special corpus fund either at company level or in CIL/MOC be provided for the reclamation of abandoned and degraded areas.	Escrow account has been opened for the reclamation of abandoned and degraded areas in the mine lease.
47	For monitoring land use pattern and for post mining land use, a time series of land use, maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in the three years (for any one particular season which is consistent in the time series). And the report submitted to MOEF and its regional office at Bhopal. The post mining land use shall be that out of the total 701.512 ha area, 57.73 ha area will be under plantation. 319.65 Ha area for public use, 324.132 ha area shall be undisturbed.	Land use pattern study report has been submitted to MOEF & CC and its regional office on 11.08.2016.
48	A Final Mine closure plan along with a plan for habitat restoration and with details of corpus Fund shall be submitted to the Ministry of Environment & forest five years before mine closure for approval. The species selected for habitat restoration for post mining and shall include a specific plan for development of agro forestry using a mix native species found in the study area.	A Final Mine closure plan along with a plan for habitat restoration and with details of corpus Fund will be submitted to the Ministry of Environment & forest five years before mine closure for approval. The mix species will be selected for habitat restoration as per the conditions set out herewith.



49	A special corpus fund either at company level or in CIL/MOC be provided for reclamation of abandoned and degraded area.	Escrow account has been opened for the reclamation of abandoned and degraded areas in the mine lease.
50	The possibility of sand stone, wherever is present in the OB as per lithology report, be explored and be provided to locals free of cost.	As per availability the sand stone is being provided to the locals free of cost.
51	After extraction of coal is completed, the OB left will be completely rehandled and backfilled the voids. This will be achieved by rehandling of OB Dumps in the area. Contamination of ground water and surface water and occupational and other diseases due to the mining operation.	After extraction of coal is completed, the OB dump created by Hindalco if any will be completely rehandled and backfilled into the voids.
52	<p>Corporate Environment Responsibility:</p> <p>a) The company shall have a well laid down Environment Policy approved by the Board of Directors.</p> <p>b) The Environment Policy shall prescribe for standard operating process/ procedures to bring into focus any infringements/deviation/violation of the environmental of forest norms/conditions.</p> <p>c) The hierarchical system or administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</p> <p>d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and /or shareholders at large.</p>	<p>Under the corporate responsibility. The company have a well laid down Environment Policy approved by the Board of Directors. The Environment Policy has been prescribe for standard operating process / procedures to bring into focus any infringements/deviation/violation of the environmental of forest norms/conditions.</p> <p>The Mine is now ISO 14001 certified and the ISO certificate is attached as <b>Annexure-VA</b></p> <p>The company Environment policy has been attached herewith <b>Annexure -V</b>.</p>
<b>B.</b>	<b>General Conditions</b>	
1	No change in mining technology and scope of working should be made without prior approval of the ministry of Environment & Forest.	No change in mining technology and scope of working will be made without prior approval of the ministry of Environment & Forest.
2	No change in the calendar plan for quantum of mineral coal and waste should be made.	No change in the calendar plan for quantum of mineral coal and waste will be made.
3	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2, and NOx monitoring. Location of the stations shall be decided based on meteorological data topographical features and environmentally and ecologically sensitive targets in consultation with the state	Four ambient air quality monitoring stations have been established and regular monitoring is being carried out. Monitoring Report is enclosed as <b>Annexure -VI</b> .

	pollution Control Board. Monitoring heavy metals such as Hg, As Ni, Cd, Cr, etc. carried out at least once in six months.	
4	Data on ambient air quality (PM10,PM2.5,SO2, and NOx) and heavy metals such as Hg, As, Ni,Cd, Cr, and other monitoring data shall be regularly submitted to the ministry including its Regional office and to the state pollution Control Board and the Central Pollution Control Board once in six month. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	Four ambient air quality monitoring stations have been established and regular monitoring is being carried out. Monitoring Report is enclosed as Annexure –VI.
5	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operation 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. The Noise monitoring report is enclosed as <b>Annexure-VII.</b>
6	Industrial wastewater (workshop and wastewater from the mine) should be properly collected treated so as to conform to the standards under prescribed GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	Settling pond with chemical dosing arrangement has been provided for the mine seepage water treatment.
7	Vehicular emission should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	Regular monitoring of vehicular emission is being done and it is under control. The PUC certificate has been ensured for all the vehicles engaged in mining activities.  The vehicle used for transporting the minerals are covered and optimally loaded.
8	Monitoring of Environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control board and data got analyzed through a laboratory recognized under EPA Rules,1986.	Monitoring of Environmental quality parameters are carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control board through NABL lab.
9	Personnel working in dusty area shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspect.	Personnel working in dusty areas are provided with protective respiratory devices and they have also been provided with adequate training and

		information on safety and health aspect.
10	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof.	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.
12	A separate environment management cell with suitable qualified personnel shall be set up under the control of a senior Executive, who will report directly to the head of the company.	A separate environment management cell with suitable qualified personnel have been set up under the control of a senior Executive.
13	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this ministry and it's Regional Office at Bhubaneswar.	The funds earmarked for environmental protection measures has been budgeted separately and not been diverted for other purposes. Enclosed as <b>Annexure –VIII</b> .
14	The project authority shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State pollution control Board and may also be seen at the website of the ministry of environment & forest at <a href="https://envfro.nic.in">https://envfro.nic.in</a> .	Complied.
15	A copy of environmental clearance letter shall be marked to concern panchayat / Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any., from whom any suggestion /representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	Already Complied.
16	A copy of environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the regional office, District Industry Sector and Collector's office/Tehsildar's office for 30 days.	Not applicable to us.

## CSR Expenditure Details for FY 2018-19

M/s Hindalco Industries Limited , Gare Palma Mines IV/4	
Focus Areas/Project Activities	Summary Costs (Lakhs)
Education	33.188
Health	13.180
Sustainable Livelihood	08.202
Infra-structure	45.089
Social	34.073
<b>Total</b>	<b>133.731</b>

Year wise Plantation Detail for Gare-Palma IV/4 Coal Mines

(Banjikhhol coal mine)

Sl. No.	Year	Plantation area in Acre	Numbers of saplings planted. (Approx.)	Nos. of saplings
1	Upto 2015	Coal mine lease area/OB Dump.	53000	<i>Mango, guava, Aola, Neem, Pipal, Ficus sp., Teak, Shivan/ Ghamar, Sisham, Sirus, Peltafarm, Nilgiri, Accasis, Casia Samia, Gulmohar etc.</i>
2	2016	Coal mine lease area/OB Dump.	6500	
3	2017	Coal mine lease area/OB Dump.	10000	
4	2018	Coal mine lease area/OB Dump.	5000	
5	2019	Coal mine lease area/OB Dump.	5000	
<b>Total</b>			<b>79500</b>	



HDO-292, PHASE IV- NEAR JP CHOWK,

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

PH - 0773-2992304 ; EMAIL-ultimatenviro@gmail.com



Name &amp; Address Of The Customer

**TO,**  
**HINDALCO INDUSTRIES LIMITED,**  
**GARE PALMA - IV/4, COAL MINE,**  
**VILLAGE - BANKHETA,**  
**POST -MILUPARA,**  
**DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	URS/TR/II/18-19/01557
LAB REF NO	URS/18-19/W/1557
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: 28/10/18

## SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORIGIN /REFERENCE:	K/PN/BRU/IRIS/5005, REV. 07.08.2018
CUSTOMER SAMPLE ID	ETP OUTLET BAN/SHALE	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 X 1 X 1 NO. 500 CAN 1 X 1 X 1 NO. 500 CAN 1 X 1 X 1 NO. GLASS BOTTLE	SEALED	SAMPLE COLLECTED BY CHEMIST
SAMPLING PROCEDURE	IS:3025 (PART 4):1997 RA 3003; AFWA 2ND ED. 2012, 1060-8, 5-10	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	Nazen	AFWA 22 <sup>nd</sup> Ed. 2012, 1130-B, 2-5	See 6 of Annexure-C Shall not exceed 5°C above the receiving water temperature	Absent
2	Temperature	°C	AFWA 22 <sup>nd</sup> Ed. 2012, 1130-B, 2-13	5.5 to 9.0	25.0
3	pH	-	AFWA 22 <sup>nd</sup> Ed. 2012, 4500-H-9, 4-9C	1.0	7.2
4	Total Residual Chlorine	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 4500-Cl-0, 4-9	1.0	N.D.
5	Total suspended solids	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 2540-D, 2-66	100	22
6	Dissolved Phosphate (as P)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 4500-F-0 4-141 & 87	2.0	0.2
8	Lead (as Pb)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Iron (as Fe)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3000-04, 3-165	2.0	N.D.
12	Mercury (as Hg)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	0.01	N.D.
13	Arsenic (as As)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	0.2	N.D.
14	Selenium (as Se)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3114-C, 3-30	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 3600-Cr-E, 3-89	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	AFWA 22 <sup>nd</sup> Ed. 2012, 5010-B, 5-17	250	60.8
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (PART 4):1995, RA 3003	30	15.2
18	Oil & Grease	mg/L	IS 3025 (PART 39):1991, RA 3003	10.0	N.D.
19	Phenolic Compounds (as CatOH)	mg/L	IS 3025 (PART 43):1992, RA 3003	1.0	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

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- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- This is for information and 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 CROWK,  
RING ROAD NO - 2, NASHI NAGRI, RAIPUR, C.G. - 99  
PH - 0771-2972364, EMAIL-ultimatenviro@gmail.com



Name &amp; Address Of The Customer

**TO,**  
**HINDALCO INDUSTRIES LIMITED,**  
**GARE PALMA - IV/4, COAL MINE,**  
**VILLAGE - BANKHETA,**  
**POST -MILUPARA,**  
**DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/II/18-19/01850	
LAB REF NO	UES/18-19/W/1850	
DATE OF SAMPLING	24/11/2018	
DATE OF RECEIPT	25/11/2018	
DATE OF REPORT	30/11/2018	
DATE OF ANALYSIS	START: 25/12/18	END: 28/11/18

## SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	N/PO/SH/1819/005, DOD. 07.08.2018
CUSTOMER SAMPLE ID	EFF. OUTLET BANBHETA	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 3 L X 1 NO. PVC CAN 1 L X 1 NO. GLASS BOTTLE	SEALED	SAMPLE COLLECTED BY
SAMPLING PROCEDURE	IS 3025 (PART 2):1997 RA 2003; APHA 22ND ED. 2012, 1060-B, 1-19	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	Hazen	APHA 22 <sup>ND</sup> Ed. 2012, 2120-B-2-8	See 6 of Annexure-I	Absent
2	Temperature	°C	APHA 22 <sup>ND</sup> Ed. 2012, 2130-B, 2-13	Shall not exceed 5°C above the receiving water temperature	25.8
3	pH	-	APHA 22 <sup>ND</sup> Ed. 2012, 4500-H*6, 4-6C	5.5 to 9.0	7.4
4	Total Residual Chlorine	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 4500-Cl-6, 4-6F	1.0	N.D.
5	Total Suspended Solids	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 2540-B, 2-6C	300	24
6	Dissolved Phosphate (as P)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 4500-F-B 40, 4-24 & 87	2.0	0.3
8	Lead (as Pb)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3111-B, 3-13	0.1	N.D.
9	Sine (as Sn)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3111-B, 3-13	3.0	N.D.
11	Cadmium (as Cd)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3000-Cd, 3-103	2.0	N.D.
12	Mercury (as Hg)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3112-B, 3-13	0.01	N.D.
13	Arsenic (as As)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3114-C, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 3060-Cr-B, 3-63	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	APHA 22 <sup>ND</sup> Ed. 2012, 5520-B, 5-17	250	72
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1993, RA 2003	30	17.4
18	Oil & Grease	mg/L	IS 3025 (Part 39):1991, RA 2003	10.0	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	IS 3025 (Part 43):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 &amp; 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 57 days after issue of test report unless otherwise agreed with customer.
- > This is for information only. The party has asked for above test(s) only.



For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY

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



HMD- 272, PHASE III- NEAR JP CHOWK,  
 REVU ROAD NO -2, RAJIB NAGAR, RAIPUR, C.G. -99  
 PH - 0771-2972304 | EMAIL: ultimateenviro@gmail.com



Name &amp; Address of the Business

TO,  
**HINDALCO INDUSTRIES LIMITED,  
 GARE PALMA - IV/4, COAL MINE,  
 VILLAGE - BANKHETA,  
 POST -MILUPARA,  
 DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/II/18-19/02077	
LAB REF NO	UES/18-19/W/2077	
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:27/12/18

## SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	M/PO/SRO/1819/0085, SDO, 07.08.2018
CUSTOMER SAMPLE ID	EFF OULET BANJANTS/2	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 3 L X 1 NO. PVC CAN 3 L X 1 NO. GLASS BOTTLE	SEALING	SAMPLE COLLECTED BY
SAMPLING PROCEDURE	IS 3025 (PART 2) (1997 RA 2003); AFSA 22ND ED. 2012, 1992-B, 1-19	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	Hazen	AFSA 22ND Ed. 2012, 2120-B, 2-8	See 6 of Annexure-1	Absent
2	Temperature	°C	AFSA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13	Shall not exceed 5°C above the receiving water temperature	25.4
3	pH	-	AFSA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>+</sup> -C, 4-20	5.5 to 9.0	7.8
4	Total Residual Chlorine	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 4500-Cl <sup>-</sup> -G, 4-29	1.0	N.D.
5	Total Suspended Solids	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 2540-B, 2-54	100	23.4
6	Dissolved Phosphate (as P)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 4500-P-C, 4-143	5.0	N.D.
7	Fluoride (as F)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 4500-F-B 50, 4-84 & 87	2.0	0.4
8	Lead (as Pb)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3500-Cd, 3-140	2.0	N.D.
12	Mercury (as Hg)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3112-B, 3-25	0.01	N.D.
13	Arsenic (as As)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3113-C, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	AFSA 22 <sup>nd</sup> Ed. 2012, 5520-B, 5-17	250	74.4
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 44):1993, RA 2003	30	18.6
18	Oil & Grease	mg/L	IS 3025 (Part 38):1991, RA 2003	10.0	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

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

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 CROWK,  
RING ROAD NO -2, KASHI NAGAR, RAIPUR, C.G. -99  
PH - 0771-2972364 | EMAIL-ultimateenviro@gmail.com

Form No.: UES/003/2019



Name &amp; Address of The Customer

TO,  
**HINDALCO INDUSTRIES LIMITED,  
GARE PALMA - IV/4, COAL MINE,  
VILLAGE - BANKHETA,  
POST-MILUPARA,  
DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UKS/TR/18-19/02455
LAB REF NO	UES/18-19/W/2455
DATE OF SAMPLING	19/01/2019
DATE OF RECEIPT	21/01/2019
DATE OF REPORT	31/01/2019
DATE OF ANALYSIS	START:21/01/19 END:25/01/2019

## SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	R/PO/ENV/1819/0005, D/O. 07.08.2018
CUSTOMER SAMPLE TO	EFF OUTLET BANKHETAL	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	1 L X 1 NO. PVC CAR 1 L X 1 NO. PVC CAR 1 L X 1 NO. GLASS BOTTLE	SEALING	SAMPLE COLLECTED BY
SAMPLING PROCEDURE	IS:3025(PART 1):1997 RA 3003; 22ND ED. 2012, 3000-B, 1-39	AFNA	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	Hazen	AFNA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-9	See 6 of Annexure-I	Absent
2	Temperature	°C	AFNA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-13	Shall not exceed 5°C above the receiving water temperature	25.0
3	pH	-	AFNA 22 <sup>nd</sup> Ed. 2012, 4500-H-4, 4-17	5.5 to 9.0	7.6
4	Total Residual Chlorine	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 4500-Cl-0, 4-49	1.0	N.D.
5	Total Suspended Solids	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 2540-D, 2-44	100	24.2
6	Dissolved Phosphate (as P)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 4500-F-B 40, 4-54 & 57	2.0	0.5
8	Lead (as Pb)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-19	5.0	N.D.
10	Copper (as Cu)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3000-CG, 3-103	2.0	N.D.
12	Mercury (as Hg)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3112-C, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 3000-Cr-B, 3-64	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/L	AFNA 22 <sup>nd</sup> Ed. 2012, 5520-B, 5-13	250	78.8
17	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 4):1993, RA 3003	30	19.2
18	Oil & Grease	mg/L	IS 3025 (Part 35):1991, RA 3003	10.0	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	IS 3025 (Part 43):1992, RA 3003	1.0	N.D.

Note: mg/L = milligram per liter. N.D. = Not Detected.

REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

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- > This is a confidential report 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 CIRCLE,  
RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -99  
PH - 0771-2972364 EMAIL-ultimateenviro@gmail.com



Name &amp; Address Of The Customer

**TO,**  
**HINDALCO INDUSTRIES LIMITED,**  
**GARE PALMA - IV/4, COAL MINE,**  
**VILLAGE - BARKHETA,**  
**POST - MILUPARA,**  
**DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/18-19/02816	
LAR REF NO	UES/18-19/W/2816	
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: 25/02/2019

## SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER		ORDER /REFERENCE:	M/PO/SRV/1819/0385, DPO: 07.08.2018
CUSTOMER SAMPLE ID	KSP OUTFLET SAMPLING		SAMPLE CONDITION AT RECEIPT	68
PACKING 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	CHDUST
SAMPLING PROCEDURE	IS 3025 (PART 2): 1987 RA 2003; APHA 22ND ED. 2012, 2005-B, 2-28		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 <sup>nd</sup> Ed. 2012, 2120-B, 2-6	Sec 6 of Annexure-I	Absent
2	Temperature	°C	APHA 22 <sup>nd</sup> Ed. 2012, 2130-B, 2-53	Shall not exceed 5°C above the receiving water temperature	25.1
3	pH	-	APHA 22 <sup>nd</sup> Ed. 2012, 4500-H <sup>-</sup> -B, 4-10	5.5 to 9.0	7.7
4	Total Residual Chlorine	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 4500-Cl-3, 4-63	1.0	N.D.
5	Total Suspended Solids	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 2540- D, 2-66	100	23.8
6	Dissolved Phosphate (as P)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 4500-P-C, 4-103	5.0	N.D.
7	Fluoride (as F)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 4500-F-B 4D, 4-84 & 87	2.0	0.8
8	Lead (as Pb)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3111-B, 3-18	3.0	N.D.
11	Cadmium (as Cd)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3050-Cd, 3-104	2.0	N.D.
12	Mercury (as Hg)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3112-B, 3-73	0.01	N.D.
13	Arsenic (as As)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3112-C, 3-38	0.2	N.D.
14	Selenium (as Se)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/l	APHA 22 <sup>nd</sup> Ed. 2012, 5520-B, 5-17	250	76.8
17	Biochemical Oxygen Demand (BOD)	mg/l	IS 3025 (Part 1): 1985, RA 2003	30	18.8
18	Oil & Grease	mg/l	IS 3025 (Part 39): 1991, RA 2003	10.0	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	IS 3025 (Part 43): 1992, RA 2003	1.0	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- > 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 ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY

End of the test report



ADD-272, PHASE III- NEAR JP CHOKK  
RING ROAD NO -2, KARIR NAGAR, BALYER, C.G. -99  
PH - 0771-2972304 - EMAIL-ultimatenviro@gmail.com



Name &amp; Address of The Customer

**TO,  
HINDALCO INDUSTRIES LIMITED,  
GARE PALMA - IV/4, COAL MINE,  
VILLAGE - BARKHETA,  
POST -MILUPARA,  
DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/18-19/03013	
LAB REF NO	UES/18-19/W/3013	
DATE OF SAMPLING	13/03/2019	
DATE OF RECEIPT	14/03/2019	
DATE OF REPORT	27/03/2019	
DATE OF ANALYSIS	START: 18/03/2019	END: 19/03/2019

## SAMPLE DETAILS

SAMPLE TYPE	EFFLUENT WATER		ORDER /REFERENCE:	N/PO/SRV/1819/0082, POH. 07.06.2018
CUSTOMER SAMPLE ID	ATP JEWEL BARKHETA		SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN	SEALED	SAMPLE COLLECTED BY	CHEMIST
	1 L X 1 NO. PVC CAN			
SAMPLING PROCEDURE	1 L X 1 NO. GLASS BOTTLE		QUANTITY RECEIVED	4 LTR
	IS 3025(PART 2):1987 RA 2003; AFSA RIND ED. 2012. LIND-M. 2-28			

## 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	Hazen	APHA 21 <sup>st</sup> Ed. 2012, 2130-D-2-2	See 6 of Annexure-I	Absent
2	Temperature	°C	APHA 21 <sup>st</sup> Ed. 2012, 2130-D-2-13	Shall not exceed 5°C above the receiving water temperature	25.4
3	pH	-	APHA 21 <sup>st</sup> Ed. 2012, 4500-H-6, 2-30	5.5 to 9.0	7.8
4	Total Residual Chlorine	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 4500-Cl-6, 4-03	1.0	N.D.
5	Total Suspended Solids	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 2540- B, 2-60	100	24.3
6	Dissolved Phosphate (as P)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 4500-P-C, 4-125	5.0	N.D.
7	Fluoride (as F)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 4500-F-B 4B, 4-08 & 97	2.0	0.2
8	Lead (as Pb)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3111-B, 3-19	0.1	N.D.
9	Zinc (as Zn)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3111-B, 3-19	5.0	0.1
10	Copper (as Cu)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3111-B, 3-19	3.0	N.D.
11	Cadmium (as Cd)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3000-Cd, 1-105	2.0	N.D.
12	Mercury (as Hg)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3114-C, 3-36	0.2	N.D.
14	Selenium (as Se)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3114-C, 3-36	0.05	N.D.
15	Total Chromium (as Cr)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 3500-Cr-8, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)	mg/l	APHA 21 <sup>st</sup> Ed. 2012, 5220-B, 5-17	250	78.4
17	Biochemical Oxygen Demand (BOD)	mg/l	IS 3025 (Part 4):1993, RA 2002	30	19.4
18	Oil & Grease	mg/l	IS 3025 (Part 35):1991, RA 2003	10.0	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- > The report for pollution, 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 fact(s) only.



For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY

End of the test report

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	Banjikhol (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)**

<b>Sr. No.</b>	<b>Location</b>	<b>Types of structure</b>	<b>Water level (MBGL)</b>
1	Bankheta (Near HIL Office)	Borewell	10.02
2	Banjikhol (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

## Environment Policy:



### HINDALCO MANAGEMENT FRAMEWORK

*excellence by design*

•The Hindalco Way

<p style="text-align: center;"> <b>ENVIRONMENT POLICY</b></p> <p>The Hindalco Group is committed to the protection and improvement of the environment. We are committed to the highest standards of environmental performance and to the continuous improvement of our environmental management system. We are committed to the prevention and control of pollution and to the efficient use of resources. We are committed to the protection of the environment and to the well-being of our employees and the community. We are committed to the highest standards of environmental performance and to the continuous improvement of our environmental management system. We are committed to the prevention and control of pollution and to the efficient use of resources. We are committed to the protection of the environment and to the well-being of our employees and the community.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>	<p style="text-align: center;"> <b>ENERGY AND WATER POLICY</b></p> <p>The Hindalco Group is committed to the efficient use of energy and water resources. We are committed to the reduction of energy and water consumption and to the improvement of our energy and water efficiency. We are committed to the prevention and control of energy and water waste. We are committed to the highest standards of energy and water performance and to the continuous improvement of our energy and water management system. We are committed to the prevention and control of energy and water waste. We are committed to the highest standards of energy and water performance and to the continuous improvement of our energy and water management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>	<p style="text-align: center;"> <b>SAFETY AND OCCUPATIONAL HEALTH POLICY</b></p> <p>The Hindalco Group is committed to the highest standards of safety and occupational health. We are committed to the prevention and control of accidents and injuries. We are committed to the highest standards of safety and occupational health performance and to the continuous improvement of our safety and occupational health management system. We are committed to the prevention and control of accidents and injuries. We are committed to the highest standards of safety and occupational health performance and to the continuous improvement of our safety and occupational health management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>	<p style="text-align: center;"> <b>QUALITY POLICY</b></p> <p>The Hindalco Group is committed to the highest standards of quality. We are committed to the continuous improvement of our quality management system. We are committed to the highest standards of quality performance and to the continuous improvement of our quality management system. We are committed to the highest standards of quality performance and to the continuous improvement of our quality management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>
<p style="text-align: center;"> <b>GOVERNANCE AND COMPLIANCE POLICY</b></p> <p>The Hindalco Group is committed to the highest standards of governance and compliance. We are committed to the highest standards of governance and compliance performance and to the continuous improvement of our governance and compliance management system. We are committed to the highest standards of governance and compliance performance and to the continuous improvement of our governance and compliance management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>	<p style="text-align: center;"> <b>PEOPLE POLICY</b></p> <p>The Hindalco Group is committed to the highest standards of people management. We are committed to the highest standards of people management performance and to the continuous improvement of our people management system. We are committed to the highest standards of people management performance and to the continuous improvement of our people management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>	<p style="text-align: center;"> <b>SUSTAINABILITY POLICY</b></p> <p>The Hindalco Group is committed to the highest standards of sustainability. We are committed to the highest standards of sustainability performance and to the continuous improvement of our sustainability management system. We are committed to the highest standards of sustainability performance and to the continuous improvement of our sustainability management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>	<p style="text-align: center;"> <b>TRAINING POLICY</b></p> <p>The Hindalco Group is committed to the highest standards of training. We are committed to the highest standards of training performance and to the continuous improvement of our training management system. We are committed to the highest standards of training performance and to the continuous improvement of our training management system.</p> <p style="text-align: right;">Dr. R. K. Singh Chairman</p> <p style="text-align: right;">Hindalco Management</p>



# Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Hindalco Industries Limited  
Gare Palma Mines (IV/4 & IV/5)  
Vill & PO: Milupara  
Tehsil: Tamnar  
Dist: Raigarh 496 107  
Chattisgarh  
India


Holds Certificate No:

**EMS 699804**

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

Provision of Coal Mining both Underground and Opencast.

For and on behalf of BSI:

  
Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2018-11-15

Latest Revision Date: 2018-11-15

Effective Date: 2018-11-15

Expiry Date: 2021-11-14

Page: 1 of 1



...making excellence a habit.™

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Printed copies can be validated at [www.bsi-global.com/ClientDirectory](http://www.bsi-global.com/ClientDirectory) or telephone +91 11 2692 9000.

Further clarifications regarding the scope of this certificate and the applicability of ISO 14001:2015 requirements may be obtained by consulting the organization.

This certificate is valid only if provided original copies are in complete set.



HDD-272, PHASE III - NEAR JP CHOWK,  
RING ROAD NO -2, KAMR NAGAR, RAIPUR, C.G. -99  
PH - 0773-2992364 EMAIL-ult.matenviro@gmail.com



Name & Address Of The Customer		REPORT NO	UES/TR/II/10-19/01552	
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL MINE,</b> <b>VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>		LAB REF NO	UES/10-19/AQM/1552	
		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
<b>SAMPLE DETAILS</b>				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	R/PO/HRV/1019/0004, D.D. 07.09.2018	
SAMPLING LOCATION	OFFICE AREA, BANKHETA			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): IXI NO., FILTER PAPER (PM <sub>2.5</sub> ): IXI NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE NUMBER BLADDER: IXI NO.			

### TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	64	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-1
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	27	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	29	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.4	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 any 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-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS AND RESEARCH LABORATORY	HD0-272, PHASE II - NEAR JP CHOWK, BUNG ROAD NO -2, KADDI NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ult.matenviro@gmail.com	
	Form No. UEL/FORM-1	

Name & Address of the Customer <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/IT/18-19/01553
	LAB REF NO	UES/18-19/AAQM/1553
	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	N/PO/SRV/1819/0085, DTD. 07.08.2018
SAMPLING LOCATION	STP AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD PERFORMANCE		
SAMPLE QUANTITY/PACKING	PLASTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO.; 30MLX1 NO. PVC BOTTLE RUBBER BLADED: 1X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	54	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	22	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.2	4.0	IS 5182 (Part 10): 1995, RA 2003

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

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

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- > 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 ENVIRONMENTAL SOLUTIONS 
	<b>AUTHORIZED SIGNATORY</b>

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

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS HQ: 303/303A/COMPLEXTON/ANANDRAO	HDO-222, PHASE III - NEAR JP CHOWK, RING ROAD NO-2, KARRI NAGAR, RAIPUR, C.G. - 99 PH - 0771-2972364 ; E-MAIL-ultimateenviro@gmail.com	

<b>Message &amp; Address of the Customer</b> <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE, VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/II/18-19/01554	
	LAB REF NO	UES/18-19/NAQM/1554	
	DATE OF SAMPLING	24/10/2018	
	DATE OF RECEIPT	25/10/2018	
	DATE OF REPORT	29/10/2018	
	DATE OF ANALYSIS	START: 24/10/2018	END: 28/10/2018

## SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PC/2018/1819/0088, DDO, 07.08.2018
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1KI NO., FILTER PAPER (PM <sub>2.5</sub> ): 1KI NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE RUBBER BLENDED: 1KI NO.		

## TEST REPORT



SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	57	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	31	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	25	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	34	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.2	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 &amp; 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-----

Form No. UES/0100/09

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS <small>NOT REGISTERED IN THE STATE OF RAJASTHAN</small>	HNO-272, PHASE III - NEAR JP CROSSING, RING ROAD NO-2, HARI NAGAR, RAIPUR, C.G. -99 PH - 0771-2922364    EMAIL-ultimaterw@gmail.com	
	Name & Address of the Customer	

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/II/18-19/01555	
	LAB REF NO	UES/18-19/AAQM/1555	
	DATE OF SAMPLING	24/10/2018	
	DATE OF RECEIPT	25/10/2018	
	DATE OF REPORT	29/10/2018	
DATE OF ANALYSIS	START:24/10/2018	END:28/10/2018	

SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	S/PO/SRV/1819/0085, PED. 07.09.2018
SAMPLING LOCATION	PIT OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CERTIFY
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE RUBBER BLAGGER: 1X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	61	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	34	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	27	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	33	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	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 &amp; 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-----

Report No.: UES/0066/11



HDD-272, PLEASER, NEAR JI-CROWD,  
 HING ROAD NO-2, KARI NAGAR, RAIPUR, E.C., -22  
 PH - 0771-2972364 - EMAIL-ultimateenviro@gmail.com



Name &amp; Address Of The Customer

**TO,**  
**HINDALCO INDUSTRIES LIMITED,**  
**GARE PALMA - IV/4, COAL MINE,**  
**VILLAGE - BANKHETA,**  
**POST - MILUPARA,**  
**DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/II/18-19/01845
LAB REF NO	UES/18-19/AAQM/1845
DATE OF SAMPLING	24/11/2018
DATE OF RECEIPT	25/11/2018
DATE OF REPORT	30/11/2018
DATE OF ANALYSIS	START:24/11/2018    END:28/11/2018

## SAMPLE DETAILS

MONITORING FOR	Ambient Air Quality Monitoring	CUSTOMER REF. NO. & DATE	N/PO/SKY/1819/009, STD. 07.08.2018
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	As per method reference		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30ML/1 NO. PVC BOTTLE, NO.: 30ML/1 NO. PVC BOTTLE SUCSES BLANKET: 1X1 NO.		

## TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	65	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	32	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	25	80	IS 5182 (Part 21): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	30	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.7	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 &amp; 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 67 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-----

	FDD-222, PHASE III - NEAR 1 <sup>st</sup> CROSS, JINDO ROAD NO-2, KARNI VAGDE, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ultimatenviro@gmail.com	Report No. - UES/ENV/19	
	Name & Address of The Customer		

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BARKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/11/19-19/01846
	LAD REF NO	UES/18-19/ANQM/1846
	DATE OF SAMPLING	24/11/2018
	DATE OF RECEIPT	25/11/2018
	DATE OF REPORT	30/11/2018
	DATE OF ANALYSIS	START:26/11/2018    END:28/11/2018

SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/PO/SRV/1813/0083, DED. 07.06.2019
SAMPLING LOCATION	EYP AREA, BARKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : JOMLAI NO. PVC BOTTLE, NO <sub>2</sub> : JOMLAI 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 <sub>10</sub> )	µg/m <sup>3</sup>	51	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	23	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18	80	IS 5182 (Part 2): 2001, PA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.3	4.0	IS 5182 (Part 10): 1999, PA 2003

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

<b>REMARKS: RESULTS ARE AS ABOVE</b>
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**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 <b>ULTIMATE ENVIRONMENTAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

Form No. UES/FORM/01

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS 108, KOLIKATTA ROAD, ANAPURUVA, CHENNAI	PDD-272, PHASE II - NEAR J.P. CHOWK, BANG ROAD NO -2, NANNI NAGAR, RAIPUR, C.G. -95 PH - 0771-2972304 EMAIL-ultimateviro@gmail.com	

<b>Name &amp; Address of the Customer</b>  <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/IL/18-19/01847	
	LAB REF NO	UES/18-19/AAQM/1847	
	DATE OF SAMPLING	24/11/2018	
	DATE OF RECEIPT	25/11/2018	
	DATE OF REPORT	30/11/2018	
DATE OF ANALYSIS	START:24/11/18	END:20/11/2018	

SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	N/PO/027/1819/006, DTD. 07.08.2018
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLI NO. PVC BOTTLE, NO.: 30MLI NO. PVC BOTTLE BUBBLE READER: 1X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	54	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	30	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	31	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.0	4.0	IS 5182 (Part 10):1999, RA 2003

Note: All results are on the basis of 24 hour 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 <b>ULTIMATE ENVIRONMENTAL SOLUTIONS</b>
	 <b>AUTHORIZED SIGNATORY</b>

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



 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS PVT. LTD. (A COMPANY INCORPORATED IN INDIA)	HNO-277, PHASE II - NEAR JP CHOKR. BING ROAD NO.-2, KABIR NAGAR, RAIPUR, C.G. -39 PH - 0771-272268   EMAIL-ultimatenwro@gmail.com	
	Form No.: UES/70001/19	

<b>Name &amp; Address of The Customer</b>  <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST-MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/11/18-19/01848
	LAB REF NO	UES/18-19/NAQM/1848
	DATE OF SAMPLING	24/11/2018
	DATE OF RECEIPT	25/11/2018
	DATE OF REPORT	30/11/2018
DATE OF ANALYSIS	START: 26/11/2018	END: 28/11/2018

SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	N/PO/SB/1818/0025, ZED. 07.08.2018
SAMPLING LOCATION	PIT OFFICE ANKA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY OWNERS
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 3XCM <sup>3</sup> NO. PVC BOTTLE, NO <sub>2</sub> : 3XCM <sup>3</sup> NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	62	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	32	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	28	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	33	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.2	4.0	IS 5182 (Part 10): 1999, RA 2003

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

<b>REMARKS: RESULTS ARE AS ABOVE</b>
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**Terms & conditions**

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

	For ULTIMATE ENVIROLYTICAL SOLUTIONS   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



HDD-272, PHASE III, NEAR JP CROSS,  
RING ROAD NO -2, KANS NAGAL, RAIPUR, C.G. -XP  
PH - 0771-2972364 EMAIL-ultimatenviro@gmail.com



<b>Name &amp; Address of the Customer</b> <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL MINE,</b> <b>VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/II/18-19/02072
	LAB REF NO	UES/18-19/AAQM/2072
	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	R/PO/ENV/1819/0085, Std. 07.08.2018
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTERED PAPER (PM <sub>10</sub> ): LXI NO., FILTER PAPER (PM <sub>2.5</sub> ): LXI NO. SO <sub>2</sub> : DGMXI NO. PVC BOTTLE, NO <sub>x</sub> : DGMXI NO. PVC BOTTLE SUMMER BLADDER: LXI NO.		

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	62	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	31	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	27	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>x</sub> )	µg/m <sup>3</sup>	32	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.8	4.0	IS 5182(Part 10):1999, RA 2003

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

<b>REMARKS: RESULTS ARE AS ABOVE</b>
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**Terms & conditions**

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

	For <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

	P.O. 272, PHASE B, NEAR J.P. CROSS, RING ROAD NO.-2, KANUN NAGAR, RAIPUR, C.G. -99 PH - 0771-292364 / EMAIL-ultimatenwro@gmail.com	
	Name & Address of The Customer <b>TO,          HINDALCO INDUSTRIES LIMITED,          GARE PALMA - IV/4, COAL          MINE,VILLAGE - BANKHETA,          POST -MILUPARA,          DISTT. - RAIGARH (C.G.) 496107</b>	

REPORT NO	UES/TR/II/18-19/02073	
LAB REF NO	UES/18-19/AAQM/2073	
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	N/TO/SRV/1819/0085, DTD. 07.08.2018
SAMPLING LOCATION	RTP AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): LXi NO., FILTER PAPER (PM <sub>2.5</sub> ): LXi NO., SO <sub>2</sub> : SORBEI NO., PVC BOTTLE, SO <sub>2</sub> : JOMELI NO., PFD BOTTLE RUBBER BAGS/BL: LXi NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	48	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol. - I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	21	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	20	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.4	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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- > This is for information as the party has asked for above test(s) only.

	For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	HOD-272, PHASE III - NEAR SP CHOWK, BONG ROAD NO - 2, KARUN NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 / EMAIL-ultimatenviro@gmail.com	Form No. UES/006/2011 
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<b>Name &amp; Address of The Customer</b>  <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANCHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/11/18-19/02074
	LAS RET NO	UES/18-19/AAQM/2074
	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/SP/1819/0095, DTD. 07.09.2018
SAMPLING LOCATION	OFFICE AREA, BANCHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX NO. PVC BOTTLE, NO.: 30MLX NO. PVC BOTTLE RUBBER BLANKET: 1X1 NO.		



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



**Terms & conditions**

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- 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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

Form No.: UES/FORM/01

 <b>Ultimate</b> ANALYTICAL SOLUTIONS ANALYSIS & CONSULTING SERVICES	RDD-272, PHASE II, NEAR J.P. CHOWK, RING ROAD NO-2, KASHI NAGRI, RAIPUR, C.G. -99 PH - 0771-2972364 · EMAIL-ultimatenviro@gmail.com	
	Name & Address of The Customer <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	

<b>REPORT NO</b> <b>LAR REF NO</b> <b>DATE OF SAMPLING</b> <b>DATE OF RECEIPT</b> <b>DATE OF REPORT</b> <b>DATE OF ANALYSIS</b>	<b>UES/TR/II/18-19/02075</b> <b>UES/18-19/AAQM/2075</b> <b>22/12/2018</b> <b>23/12/2018</b> <b>29/12/2018</b> <b>START:24/12/2018</b> <b>END:26/12/2018</b>
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SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	R/PO/SRV/1919/0085, DTD. 07.08.2018
SAMPLING LOCATION	PIT OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. BOTTLE: JOMLKI NO. 2VC BOTTLE, NO.: JOMLKI NO. 2VC BOTTLE RUBBER BLAGGER: 1X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	66	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	30	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	29	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	35	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.3	4.0	IS 5182 (Part 10):1999, RA 2003

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

<b>REMARKS: RESULTS ARE AS ABOVE</b>
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**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: <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

Form No. UE/0-096/19



RDD-222, PHASE III- NEAR BHOJNAGAR,  
RING ROAD NO.-2, KANIK NAGAR, RAIPUR, C.G. -99  
PH - 0771-2972364 / EMAIL-ultimatenviro@gmail.com



Name &amp; Address Of The Customer:

**TO,**  
**HINDALCO INDUSTRIES LIMITED,**  
**GARE PALMA - IV/4, COAL MINE,**  
**VILLAGE - BANKHETA,**  
**POST - MILUPARA,**  
**DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/18-19/02446
LAB REF NO	UES/18-19/AAQM/2446
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	N/PO/ENV/1819/0065, DTD. 07.08.2018
SAMPLING LOCATION	OFFICE AREA, BANJHONG		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): LX1 NO., FILTER PAPER (PM <sub>2.5</sub> ): LX1 NO. SO <sub>2</sub> : JOMLXI NO. PVC BOTTLE, NO.: JOMLXI NO. PVC BOTTLE NUMBER SLABBER: LX1 NO.		

## TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	ug/m <sup>3</sup>	56	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	ug/m <sup>3</sup>	33	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	ug/m <sup>3</sup>	20	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	ug/m <sup>3</sup>	25	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	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

## Terms &amp; 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 60 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-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS N/A KALSHRITIA COLONY, VASANT VIHAR	RFD-272, PHASE III - NEAR JP CHOKH, BUNG ROAD NO -2, KAMBI NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 : EMAIL-ultimateenviro@gmail.com	

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UKS/TR/18-19/02447
	LAB REF NO	UES/18-19/AAQM/2447
	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			
MONITORED FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	M/CO/SRV/1819/0009, DTD. 07.08.2018
SAMPLING LOCATION	REF AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AN FRM METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): LXI NO., FILTER PAPER (PM <sub>2.5</sub> ): LXI NO. SO <sub>2</sub> : JINGXI NO. PVC BOTTLE, NO <sub>2</sub> : JINGXI NO. PVC BOTTLE ROUNDER BEADER: LXI NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	ug/m <sup>3</sup>	48	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	ug/m <sup>3</sup>	21	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	ug/m <sup>3</sup>	19	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	ug/m <sup>3</sup>	22	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.4	4.0	IS 5162 (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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.-----

Form No. UE/FORM/01



IND-272, PHASE II - NEAR J.P. CHOWK,  
RING ROAD NO - 2, KANER NAGAR, RAIPUR, C.G. - 99  
PH - 9771-297263 | EMAIL: ultimateenviro@gmail.com



Name &amp; Address Of The Customer

**TO,  
HINDALCO INDUSTRIES LIMITED,  
SRE PALMA - IV/4, COAL  
MINE, VILLAGE - BANKHETA,  
POST - MILUPARA,  
DISTT. - RAIGARH (C.G.) 496107**

REPORT NO	UES/TR/18-19/02448	
LAB REF NO	UES/18-19/AAQM/2448	
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/20/SRV/1819/0088, DND. 07.08.2019
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (FM <sub>10</sub> ): LXI NO., FILTER PAPER (FM <sub>2.5</sub> ): LXI NO. NO <sub>x</sub> : 25MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 25MLX1 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 <sub>10</sub> )	µg/m <sup>3</sup>	68	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	34	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	26	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	30	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	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

## Terms &amp; 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-----



Formal No.: UES/2018/00449

 <b>Ultimate</b> ANALYTICAL SOLUTIONS FOR BETTER EDUCATIONAL LABORATORY	JINDO-272, PHASE III - NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -99 PH - 0773-2972964 EMAIL-ultimateenviro@gmail.com	
	Home & Address of the Customer <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	

<b>REPORT NO</b> <b>LAB REF NO</b> <b>DATE OF SAMPLING</b> <b>DATE OF RECEIPT</b> <b>DATE OF REPORT</b> <b>DATE OF ANALYSIS</b>	<b>UES/TR/18-19/02449</b> <b>UES/18-19/AAQM/2449</b> <b>30/01/2019</b> <b>31/01/2019</b> <b>04/02/2019</b> <b>START: 31/01/2019      END: 01/02/2019</b>
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SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	R/PO/SRV/1819/0044, DTD. 07.09.2018
SAMPLING LOCATION	FIT OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	24 HR METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): LX1 NO., FILTER PAPER (PM <sub>2.5</sub> ): LX1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE SUBSIDY BLAGGER: LX1 NO.		

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	60	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	29	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.9	4.0	IS 5182 (Part 10):1998, RA 2003

Note: All results are on the basis of 24-hour 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 67 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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>
	 <b>AUTHORIZED SIGNATORY</b>

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

Form No. - UES/TR/01/01

 <b>Ultimate</b> ENVIROLYTICAL SOLUTIONS NABL ACCREDITED & CECS APPROVED LABORATORY	HNO-072, PHASE III - NEAR 9 <sup>th</sup> CROSS, RING ROAD NO -2, KARBI NAGAR, RAIPUR, C.G. -99 PH - 0771-2922364 · EMAIL-ultimateenviro@gmail.com	
	HNO-072, PHASE III - NEAR 9 <sup>th</sup> CROSS, RING ROAD NO -2, KARBI NAGAR, RAIPUR, C.G. -99 PH - 0771-2922364 · EMAIL-ultimateenviro@gmail.com	

<b>Name &amp; Address of The Customer</b>  <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL MINE,</b> <b>VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/02611
	LAB REF NO	UES/18-19/AAQM/2811
	DATE OF SAMPLING	21/02/2019
	DATE OF RECEIPT	22/02/2019
	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	R/NO/GRV/1019/0065, STD. 07.08.2018
SAMPLING LOCATION	OFFICE AREA, MANJINKOL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 10ML/1 NO. PVC BOTTLE, NO <sub>2</sub> : 10ML/1 NO. PVC BOTTLE RUBBER SLABBER: 1X1 NO.		

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAACM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	64	100	IS 5102 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	35	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	22	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.0	4.0	IS 5182 (Part 10):1999, RA 2003

Note: \* Duration of sampling for CO - 1 Hour

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- 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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

Form No. UES/FORM/07

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NABL ACCREDITED & CECS AFFILIATED LABORATORY	HINDO-272, PHASE III - NEAR B-4 MAINA, KING ROAD NO -2, KARN NIGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ultimateenviro@gmail.com	
	Name & Address of the Customer	

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/02812	
	LAS REF NO	UES/18-19/NAQM/2812	
	DATE OF SAMPLING	21/02/2019	
	DATE OF RECEIPT	22/02/2019	
	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	N/NO/000/1819/0005, END. 07.08.2018
SAMPLING LOCATION	STP AREA, BANJIKOL		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO. , FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	µg/m <sup>3</sup>	49	100	IS 5102 (Part 2): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	23	60	Instrument Manufacturer's Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	18	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	0.9	4.0	IS 5102 (Part 10): 1999, RA 2003

Note: \* Duration of sampling for CO- 1 Hour

<b>REMARKS: RESULTS ARE AS ABOVE</b>
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## Terms &amp; conditions

- > 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.-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NABL ACCREDITED & CBCE APPROVED LABORATORY	BDD-272, PHASE III - NEAR J.P. CHOKIA, RING ROAD NO - 2, KANAK NAGAR, RAIPUR, C.G. - 75 Ph - 0771-2972364   EMAIL-ultimateenviro@gmail.com	
	(Name & Address of The Customer)	

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/02813	
	LAB REF NO	UES/18-19/AAQM/2813	
	DATE OF SAMPLING	22/02/2019	
	DATE OF RECEIPT	23/02/2019	
	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 REF. NO. & DATE	N/PO/SRU/1819/0045, DTA. 07.09.2018
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING FREQUENCY	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 2X1 NO. SO <sub>2</sub> : JOMLAI NO. PVC BOTTLE, NO.; JOMLAI NO. PVC BOTTLE RUBBER STOPPER: 2X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	66	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	36	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	20	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.4	4.0	IS 5182 (Part 10): 1996, RA 2003

Note: \* Duration of sampling for CO - 1 Hour

<b>REMARKS: RESULTS ARE AS ABOVE</b>
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*Terms & conditions*

- > 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 ENVIRONMENTAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NABL ACCREDITED & CPCB APPROVED LABORATORY	HED-272 PHASE II - NEAR JP CROSS, JIND ROAD NO -2, NAWA NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 ; EMAIL-ultimatenviro@gmail.com	

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/02814	
	LAB KEY NO	UES/18-19/AAQM/2014	
	DATE OF SAMPLING	22/02/2019	
	DATE OF RECEIPT	23/02/2019	
	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 REF. NO. & DATE	R/PO/ENV/1819/02814, DTD. 07.05.2018
SAMPLING LOCATION	PIT OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	ug/m <sup>3</sup>	60	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	ug/m <sup>3</sup>	28	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	ug/m <sup>3</sup>	18	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	ug/m <sup>3</sup>	24	50	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.2	4.0	IS 5182 (Part 10): 1999, RA 2003

Note: \* Duration of sampling for CO - 1 Hour



**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 97 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 <b>ULTIMATE ENVIRONMENTAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NABL ACCREDITED & COE APPROVED LABORATORY	HDO-272, PHASE III - NEAR JP CROSS, BEND ROAD NO -2, KADRI NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 - EMAIL-ultimatenviro@gmail.com	
	HDO-272, PHASE III - NEAR JP CROSS, BEND ROAD NO -2, KADRI NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 - EMAIL-ultimatenviro@gmail.com	

<b>Name &amp; Address of The Customer</b>  <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL MINE,</b> <b>VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/03008
	LAB REF NO	UES/18-19/AAQH/3008
	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	R/PO/RAV/1919/GOHS, DND. 07.08.2018
SAMPLING LOCATION	OFFICE AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE SMOKE READER: 1X1 NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	65	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	32	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.2	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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- > 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 <b>ULTIMATE ENVIRONMENTAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.-----

Form No: UES/FORM/01

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NABL ACCREDITED & CECE APPROVED LABORATORY	HNO- 272, PHASE III - NEAR B' CHAWN, BUNG ROAD NO -2, KANSHI NAGAR, RAIPUR, C.G. - 99 PH - 0771-2972364   EMAIL-ultimateenviro@gmail.com	
	Name & Address of The Customer	

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/03009
	LAB REF NO	UES/18-19/ANQ01/3009
	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

SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	N/PO/SRU/1819/0089, DTD. 07.06.2019
SAMPLING LOCATION	STP- AREA, BANKHETA		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): LXI NO., FILTER PAPER (PM <sub>2.5</sub> ): LXI NO. SO <sub>2</sub> : 30MLKI NO. PVC BOTTLE, NO <sub>2</sub> : 30MLKI NO. PVC BOTTLE RUMMED BLENDER: LXI NO.		



TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	52	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	26	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	15	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.0	4.0	IS 5182 (Part 10):1999, RA 2003

Note: \* Duration of sampling for CO- 1 Hour

**REMARKS: RESULTS ARE AS ABOVE**

## Terms &amp; conditions

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 67 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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>
	 <b>AUTHORIZED SIGNATORY</b>

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

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NABL ACCREDITED & CPCB APPROVED LABORATORY	HDO- 572, PHASE II - NEAR U/ CHIRUK RING ROAD NO -2, RAJEEV NAGAR, RAIPUR, C.G. - 39 PH - 0771-2972364 / EMAIL-ultimatenviro@gmail.com	
	Report No: UES/TRA/18-19/03010	

Name & Address of the Customer		REPORT NO	UES/TR/18-19/03010	
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>		LAB REF NO	UES/18-19/AAQM/3010	
		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: 16/03/2019
<b>SAMPLE DETAILS</b>				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	N/PO/090/1819/0085, DTD. 07.09.2018	
SAMPLING LOCATION	OFFICE AREA, BANKHETA			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO, PVC BOTTLE, SO <sub>2</sub> : 30MLX1 NO, PVC BOTTLE ROSSER BLEASER: 1X1 NO.			



<b>TEST REPORT</b>					
SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	73	100	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	39	60	Instrument Manufacturer Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	21	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	29	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.5	4.0	IS 5182(Part 10):1995, RA 2003

Note: \* Duration of sampling for CO -1 Hour

**REMARKS: RESULTS ARE AS ABOVE**


**Terms & conditions**

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	For <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



 <b>Ultimate</b> ENVIROLYTICAL SOLUTIONS NABL ACCREDITED & CECS APPROVED LABORATORY	HDO-272, PHASE III - NEAR B/ CHOWK, KING ROAD NO -2, KARRI NAGAR, RAIPUR, C.G. - 499	
	PH - 0771-5972364 / EMAIL:ultimateenviro@gmail.com	

Name & Address of The Customer		REPORT NO	UES/TR/18-19/03011	
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>		LAB REP NO	UES/18-19/NAQM/3011	
		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
<b>SAMPLE DETAILS</b>				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	N/O/SRV/1819/0085, Dtd. 07.06.2019	
SAMPLING LOCATION	PIT OFFICE AREA, BANKHETA			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE RUBBER BLADES: 1X1 NO.			



<b>TEST REPORT</b>					
SR. NO.	PARAMETER	UNIT	RESULT	NAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM <sub>10</sub> )	µg/m <sup>3</sup>	69	100	IS 5102 (Part 23): 2006 & CPCB Guidelines Vol.-I
2	Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	31	60	Instrument Manufacturer's Operating Instructions.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19	80	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27	80	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I
5	Carbon Monoxide (CO) *	mg/m <sup>3</sup>	1.3	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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS HNS, ACTOR ROAD & CENTRAL LAKSHMIBAG	HNO - 272, PHASE II - NEAR JP CHOURI, BUNG ROAD NO -2, NABIR NAGAR, RAIPUR, C.G. -99 PH : 0771-2972364   EMAIL-ultimateenviro@gmail.com	
	HNO - 272, PHASE II - NEAR JP CHOURI, BUNG ROAD NO -2, NABIR NAGAR, RAIPUR, C.G. -99 PH : 0771-2972364   EMAIL-ultimateenviro@gmail.com	

Name & Address of The Customer <b>TO,          HINDALCO INDUSTRIES LIMITED,          GARE PALMA - IV/4, COAL          MINE, VILLAGE - BANKHETA,          POST -MILUPARA,          DISTT. - RAIGARH (C.G.) 496107</b>		REPORT NO <b>UES/TR/II/18-19/01565</b>
		LAB REF NO <b>UES/18-19/N/1565</b>
		DATE OF REPORT <b>29/10/2018</b>
		DATE OF SAMPLING <b>24/10/2018 to 25/10/2018</b>
<b>SAMPLE DETAILS</b>		
MONITORING FOR <b>NOISE LEVEL MONITORING</b>	CUSTOMER REF. NO. & DATE <b>M/PO/ENV/1615/0085,          DTD. 07.09.2018</b>	
SAMPLING LOCATION <b>INSIDE COAL MINE &amp; OUTSIDE COAL MINE (AS DESCRIBED BELOW)</b>		
SAMPLE COLLECTED BY <b>LABORATORY CHEMIST</b>		
SAMPLING PROCEDURE <b>MANUFACTURER'S INSTRUCTION</b>		

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, BANKHETA	dB(A)	55	52	75	70
INCLINE AREA, BANKHETA	dB(A)	65	59		
BUNKER AREA, BANKHETA	dB(A)	66	58		
DO SET AREA, BANKHETA	dB(A)	62	56		
NEIGHBORHOOD AREA, BANKHETA	dB(A)	58	51		
TRUCK PARKING AREA, BANKHETA	dB(A)	55	54		
OFFICE AREA, BANKHETA	dB(A)	53	46		
NEIGHBORHOOD AREA, BANKHETA	dB(A)	62	52		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
BANKHETA VILLAGE	dB(A)	49	40	55	45
MELNOR VILLAGE	dB(A)	47	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 <b>ULTIMATE ENVIRONMENTAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS NEW ADDRESS: F-103/4/11/11/11/11/11	1000-270, PHASE III- NEAR JP CHOWK, RING ROAD NO-2, RAJIB NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL: ultimateenviro@gmail.com	
	Form No. UE/S/0386/VII	


Name & Address of The Customer <b>TO,          HINDALCO INDUSTRIES LIMITED,          GARE PALMA - IV/4, COAL MINE,          VILLAGE - BANKHETA,          POST - MILUPARA,          DISTT. - RAIGARH (C.G.) 496107</b>		REPORT NO <b>UES/TA/II/18-19/01857</b>
		LAB REF NO <b>UES/18-19/N/1857</b>
		DATE OF REPORT <b>30/11/2018</b>
		DATE OF SAMPLING <b>23/11/2018 to 24/11/2018</b>
<b>SAMPLE DETAILS</b>		
MONITORING FOR <b>NOISE LEVEL MONITORING</b>	CUSTOMER REF. NO. <b>4 DATE</b>	<b>N/PO/REV/1819/0085,          STD. 07.08.2018</b>
SAMPLING LOCATION <b>INSIDE COAL MINE &amp; OUTSIDE COAL MINE (AS DESCRIBED BELOW)</b>		
SAMPLE COLLECTED BY <b>LABORATORY CHEMIST</b>		
SAMPLING PROCEDURE <b>MANUFACTURER'S INSTRUCTION</b>		

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, BANJHROL	dB(A)	51	50	75	70
INCLINE AREA, BANJHROL	dB(A)	64	62		
BUNKER AREA, BANJHROL	dB(A)	62	59		
DOCK AREA, BANJHROL	dB(A)	60	58		
NEIGHBORHOOD AREA, BANJHROL	dB(A)	56	52		
TRUCK PASSING AREA, BANJHROL	dB(A)	67	61		
OFFICE AREA, BANKHETA	dB(A)	54	51		
NEIGHBORHOOD AREA, BANKHETA	dB(A)	61	55		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
BANJHROL VILLAGE	dB(A)	50	43	55	45
BEJOUR VILLAGE	dB(A)	49	41		

**REMARKS: RESULTS ARE AS ABOVE**

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

	For <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS WILDCOAST ROAD, KALKAJI INDUSTRIAL ESTATE	1/00-272, PHASE II - NEAR P. CHOKIS, KING ROAD NO -2, KASBI NAGAR, RAIPUR, C.G. -94 PH - 0771-2972364   EMAIL: ultimateenviro@gmail.com	
	FORM NO. UES/008/09	



Name & Address of The Customer		
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/II/18-19/02083
	LAB REF NO	UES/18-19/N/2083
	DATE OF REPORT	29/12/2018
	DATE OF SAMPLING	21/12/2018 to 22/12/2018
<b>SAMPLE DETAILS</b>		
MONITORING FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)	N/TO/ENV/1819/0085, DTD. 07.08.2018
SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION	

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, BANJIKHOL	dB(A)	53	51	75	70
INCLINE AREA, BANJIKHOL	dB(A)	67	64		
BUNKER AREA, BANJIKHOL	dB(A)	69	65		
DO KEY AREA, BANJIKHOL	dB(A)	59	55		
NEIGHBORHOOD AREA, BANJIKHOL	dB(A)	56	50		
TRUCK PARKING AREA, BANJIKHOL	dB(A)	65	64		
OFFICE AREA, BANKHETA	dB(A)	52	49		
NEIGHBORHOOD AREA, BANKHETA	dB(A)	60	57		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
BANJIKHOL VILLAGE	dB(A)	50	39	55	45
BELJUR VILLAGE	dB(A)	52	42		

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

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- 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 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

Form No. - UEL/FORM/19



 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS REG. NO. UEL/14/0001/000001	HDO-272, PHASE III - NEAR 47 CROSS, BUNG ROAD NO - 2, KAMR NAGAR, BANPUR, C.G. - 99 PH - 0771-2972364 EMAIL- u.environmental@gmail.com	

Name & address of the Customer		REPORT NO	UES/TR/18-19/02464
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE, VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>		LAB REF NO	UES/18-19/N/2464
		DATE OF REPORT	31/01/2019
		DATE OF SAMPLING	19/01/2019 to 20/01/2019
<b>SAMPLE DETAILS</b>			
MONITORS FOR	NOISE LEVEL MONITORING	CUSTOMER REF. NO. & DATE	N/PO/ENV/1815/0005, DTD. 07.08.2018
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, BANJIKROL	dB(A)	56	52	75	70
ENGINE AREA, BANJIKROL	dB(A)	69	67		
BUNKER AREA, BANJIKROL	dB(A)	68	66		
DG SET AREA, BANJIKROL	dB(A)	58	57		
NEIGHBORHOOD AREA, BANJIKROL	dB(A)	56	51		
TRUCK PARKING AREA, BANJIKROL	dB(A)	64	62		
OFFICE AREA, BANKHETA	dB(A)	54	51		
NEIGHBORHOOD AREA, BANKHETA	dB(A)	62	59		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
BANJIKROL VILLAGE	dB(A)	51	40	55	45
MILUPA VILLAGE	dB(A)	53	42		



**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 ENVIRONMENTAL SOLUTIONS 
	<b>AUTHORIZED SIGNATORY</b>

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

Form No. - UES/FORM/02



 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS <small>MANAGEMENT &amp; CONSULTANCY SERVICES</small>	H20-272, PHASE III, NEAR JP CHOKI, BUNG ROAD NO +2, KARRI NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 - EMAIL-ultimatenvra@gmail.com	

Name & Address of the Customer <b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL</b> <b>MINE,VILLAGE - BANKHETA,</b> <b>POST -MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>		REPORT NO <b>UES/TR/18-19/02822</b>
		LAB REF NO <b>UES/18-19/H/2822</b>
		DATE OF REPORT <b>01/03/2019</b>
		DATE OF SAMPLING <b>21/02/2019 to 22/02/2019</b>
<b>SAMPLE DETAILS</b>		
MONITORING FOR <b>NOISE LEVEL MONITORING</b>	CUSTOMER REF. NO. <b>4 DATE</b>	<b>N/TO/ENV/1819/0085,          DED. 07.08.2018</b>
SAMPLING LOCATION <b>INSIDE COAL MINE &amp; OUTSIDE COAL MINE (AS DESCRIBED BELOW)</b>		
SAMPLE COLLECTED BY <b>LABORATORY CHEMIST</b>		
SAMPLING PROCEDURE <b>MANUFACTURER'S INSTRUCTION</b>		

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, BANJINGOL	dB(A)	54	50	75	70
INCLINE AREA, BANJINGOL	dB(A)	62	59		
BUNKER AREA, BANJINGOL	dB(A)	64	61		
DO KEY AREA, BANJINGOL	dB(A)	68	66		
WREKSHORTE AREA, BANJINGOL	dB(A)	56	52		
TRUCK PARKING AREA, BANJINGOL	dB(A)	65	60		
OFFICE AREA, BANKHETA	dB(A)	58	53		
WREKSHORTE AREA, BANKHETA	dB(A)	64	58		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
BANJINGOL VILLAGE (NEAR ANSHABADI)	dB(A)	52	43	55	45
BELOAR VILLAGE (NEAR MANSION HOUSE)	dB(A)	50	40		



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

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 87 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 <b>ULTIMATE ENVIRONMENTAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.-----

Report No.: UES/FORM/09



 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS <small>FOR ACCOUNTING &amp; CONSULTING SERVICES</small>	HHD-272, PHASE III - NEAR JIP CROSS, JONG ROAD NO -2, KAJUR NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364 / EMAIL-ultimastenviro@gmail.com	

<i>Name &amp; Address Of The Customer</i>		REPORT NO	UKS/TR/18-19/03018
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/4, COAL MINE,</b> <b>VILLAGE - BANKHETA,</b> <b>POST - MILUPARA,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>		LAB REF NO	UES/18-19/N/3018
		DATE OF REPORT	27/03/2019
		DATE OF SAMPLING	12/03/2019 to 13/03/2019
<b>SAMPLE DETAILS</b>			
MONITORING FOR	SOUND LEVEL MONITORING	CUSTOMER REF. NO. & DATE	M/PO/ENV/1819/0085, DTD. 07.08.2018
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
OFFICE AREA, BANJINGOL	dB(A)	56	52	75	70
INCLINE AREA, BANJINGOL	dB(A)	64	60		
BUNGER AREA, BANJINGOL	dB(A)	68	65		
DU SHT AREA, BANJINGOL	dB(A)	69	64		
NEIGHBORHOOD AREA, BANJINGOL	dB(A)	57	54		
TRUCK PARKING AREA, BANJINGOL	dB(A)	62	56		
OFFICE AREA, BANKHETA	dB(A)	58	53		
NEIGHBORHOOD AREA, BANKHETA	dB(A)	61	55		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
BANJINGOL VILLAGE (NEAR ANJANWADI)	dB(A)	51	42	55	45
BELTOR VILLAGE (NEAR MANSOH BOMBE)	dB(A)	53	44		

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

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	For <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>   <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

**Environmental Expenditure Details for FY 2018-19****M/s Hindalco Industries Limited , Gare Palma Mines IV/4**

<b>Particulars</b>	<b>Amount (Rs.)</b>
Water Quality Management	959066
Air Quality Management	1262641
Plantation, Green Belt Development	290750
<b>Total</b>	<b>2512457</b>