

Corp. Office :

Hind House, Sai Parisar Commercial Complex, Shri Kant Verma Marg, Bilaspur (C.G.) - 495 001 T +91 7752-436011-50 / F +91 7752-429685 E hecb@hindenergy.com, info@hindenergy.com W www.hindenergy.com

## HIND ENERGY AND COAL BENEFICATION (INDIA) LTD. CIN : U04010WB2005PLC132889

Ref.:

To.

Date: 09/03/2019

The Director, Ministry of Environment, Forests & Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440001

**Sub:** Submission of EC Compliance along with Environmental Six monthly Monitoring Report for the period "*July-December 2018*".

Ref: EC letter no. J-11015/364/2009.IA-II(M) dated 21st May, 2014.

Dear Sir,

We are submitting herewith one copy of the EC Compliance Report and Environmental Status Report for above referred period for 3.6 MTPA Coal Washery of M/S Hind Energy &Coal Beneficiation (India) Pvt. Ltd. located at Hindadih Village, Masturi Tehsil, Bilaspur District, Chhattisgarh for your perusal and record. Thanking you.

Yours faithfully

Hind Energy & Coal Beneficiation (India) Ltd.

Encl: As above

Copy to:

1. Central Pollution Control Board, Zonal Office, SahkarBhawan, North T.T. Nagar, Bhopal -462003

2. CECB, VyaparVihar, Near Pt. DinDayalUpadyay Garden, Bilaspur

Regd. Off. : 319, Karnani Mansion, 25A, Park Street Kolkata - 700016 (West Bengal)

## EC COMPLIANCE REPORT

## ENVIRONMENTAL STATUS REPORT (July - December 2018)

### Of

Hindadih Coal Washery (2.4 MTPA = Dry Type + 1.2 MTPA Wet Type)

### Located At

Village - Hindadih, Tehsil - Masturi, District - Bilaspur, State - Chhattisgarh

**Project Proponent:** 



Hind Energy & Coal Beneficiation (India)Ltd. Hindadih Village, MasturiTehsil, Bilaspur District, Chhattisgarh, India

Environmental Consultant ANACON LABORATORIES PVT. LTD., NAGPUR

QCI-NABET Accredited EIA Consultant MoEF&CC (GOI) and NABL Recognized Laboratory ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Lab. & Consultancy: FP-34, 35, Food Park, MIDC, Butibori, Nagpur – 441122 Mob.: +91-9372960077 Email: info@anacon.in, ngp@anacon.in Website: www.anaconlaboratories.com

## March, 2019

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#### INTRODUCTION

M/s Hind Energy & Coal Beneficiation (I) Ltd, (HECBIPL) has expanded capacity of its existing Coal beneficiation plant from 2.4 MTPA to 3.6 MTPA on 01.10.2015 (project commissioned). The coal washery is located at Village Hindadih, Tehsil Masturi, District Bilaspur (C.G.). The raw coal is received generally from SECL Dipka mine which is about 70 km from HECBIPL.

Coal beneficiation is the process for cleaning & reducing ash content in the coal, thus improving the quality of coal. This is a wet type of coal Washery, having obtained environmental clearance vide letter No. J-11015/364/2009.IA-II(M) dated  $21^{st}$  May, 2014. EC Conditions compliance status and Environmental monitoring reports for the period of July 2018 to June 2018 is given below.

Compliance Status of conditions stipulated in Environmental Clearance for 3.6 MTPA Coal Washery of M/s Hind Energy & Coal Beneficiation (I) Ltd, (HECBIPL).

Sr. No.	Specific Conditions	Action Taken
i.	Coal transportation shall be by mechanically covered trucks for loading and unloading.	HECB enquired for mechanically covered trucks with leading truck manufacturers in 2013 as well as 2016 also. However, mechanically covered trucks are not available in market, hence transportation of coal is done through tarpaulin covered trucks only.
ii.	Green belt in and around the coal washery should be further intensified.	Being complied. The density existing green belt has been increased in phase wise manner. Till date about 7500 nos. of trees and shrubs are planted within premises. Road side plantation is also been done at approach roads consisting of 2500 nos. of tree and shrubs. (Refer Annexure IV).
iii.	Automatic sprinkler system atthe railway siding should beinstalled.	Complied. The Company has installed fixed and movable type of water sprinkling system within premises. Sprinkling system consisting of rain gun near to Raw coal, washed coal and reject storage yard has been installed.
iv.	No extension for the work of railway siding will be sought by the proponent.	Complied. Railway siding work has been completed within permitted time schedule and now in operation. (Refer Annexure II).
<b>v.</b>	No wastewater will be discharged into drains / water resources.	Complied. No wastewater is discharged into drains / water resources as plant

#### **COMPLIANCE STATUS**





Sr.	Specific Conditions	Action Taken
No.		
vi.	technology used for the washing of coal is wet process. Closed circuit water system will be adopted in the proposed expansion project. Zero effluent discharge system will be	effluent is being let out the premises, hence maintaining Zero discharge
vii.	maintained. The proponent should adhere to all the conditions stipulated in letter of Central Ground Water Board letter no.21 4(102)/ CGWA/2011/ 174.	
viii.	The assurances given during the Public Hearing and as per the action plan developed by the proponent should be implemented.	Complied. Air pollution control equipment are installed and Hind Energy is also actively doing CSR activities. (Refer Annexure III)
ix.	The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.	The CSR expenditure has been increased to INR 2,64,32,723.00 by the company till January 2019. HECB is committed to fulfill the statutory obligation of spending minimum 2% of net profit for CSR activities as per the Companies act 2013.
х.	Three-tier green belt should be developed along the washery boundary and along transfer and loading points and in the proposed railway siding to mitigate/check dust pollution and the entire coal dispatch from the group of mines should be dove-tailed with the Coal evacuation system prepared for the Angul-Talcher. A 3-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads and on the 2- km road upto the railway siding and at the siding.	3-tier plantation has been already implemented. Till date about 7500 nos. of trees and shrubs are planted within premises. Road side plantation is also been done at approach roads consisting of 2500 nos. of tree and shrubs. (Refer Annexure IV)





Sr.	Specific Conditions	Action Taken
No.		
xi.	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measures hall be taken to ensure that the stored minerals do not catch fire.	Complied. Raw Coal, Washed coal & coal waste (rejects) are stacked properly at earmarked sites(s) covered with boundary walls. Water Sprinklers are provided on the coal stock to reduce dispersion of coal particulate matter in ambient air. This also helps minimizing risk of coal storages fire. (Refer Annexure V)
xii.	Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads	Complied. Coal crusher of the plant are facilitated with Bag filters of adequate capacity and efficiency so as to comply with particulate emission norms. Mist spray water sprinkling system is provided. Closed conveyor system is provided to prevent fugitive dust emissions. Please refer Annexure – III.
xiii.	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with 8 mechanical sweepers.	Complied. Approach road has been compacted and cemented. All internal roads are concrete & plantation has also been done along the road side wherever possible. Maintenance work is regularly carried out by HECB. Road side water sprinkling system has been installed. Kindly refer to Annexure - IX
xiv.	Trucks engaged for mineral transportation outside the washery upto the railway siding covering a distance of 2 km shall be optimally loaded and covered with tarpaulin with no spillage en route. The trucks shall be properly maintained and emissions shall be below notified limits. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	Being Complied. No overloading is being permitted. All the vehicles engaged in transportation are covered with tarpaulins and are maintained so as to follow emission norms. The vehicle inspection is conducted regularly.
xv.	Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website	maintained at plant and also uploaded on the website and same can be





Sr. No.	Specific Conditions	Action Taken
	The transportation of east should be	UECE anguized for machanically
xvi.	The transportation of coal should be by mechanically covered trucks in order to reduce coal spillage and dust pollution	HECB enquired for mechanically covered trucks with leading truck manufacturers in 2013, 2016 and latest by 2018. However, mechanically covered trucks are not available in market; hence transportation of coal is done through tarpaulin covered trucks only (Refer Annexure – I).
xvii.	The waste water should be discharged after proper treatment;	Complied. The HECB is completely reutilizing the process water after treatment through Hi-rate Thickener and settling ponds. Hence maintaining ZERO discharge Condition.
xviii	All the conditions stipulated in the letter of Central Ground Water Board letter no.21- 4(102)/CGWA/NCCR/2011/174 dated Nil should be adhered to.	Complied. All conditions in CGWB letter are adhered.
xix.	The time limit should be provided to the Contractual vendors /contractors for providing mechanically covered trucks for coal transportation.	Noted. The mechanically covered trucks are not available with truck manufactures nor intend to manufacture right now. Same will be procured by HECB whenever available in market.
хх.	The washery unit shall be a zero- discharge facility and no wastewater shall be discharged from the washery into the drains/natural water courses. Recycled water shall be used for development and maintenance of green belt and in the Plant Operations.	Complied. Zero discharge is strictly followed by recycling for process and use of treated water for green belt within the premises. No wastewater is discharged into drains / water resources.
xxi.	Industrial wastewater (workshop) shall be properly collected, treated so as to conform to the standards prescribed under 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 use within the washery premises. Oil and grease trap shall be installed for treatment of workshop effluents. No wastewater shall be discharged from the washery into the drains/natural watercourses.	





Sr. No.	Specific Conditions	Action Taken
xxii.	No additional groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures.	Complied. Water recycled from ETP is re- used in plant operation and only makeup water is withdrawn from groundwater.
xxiii	Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website.	Being complied. The CSR amount was spent on various need based activities like pond construction, education facilities, drainage repairing, bore well construction and medical instrument donations to government hospital etc. The CSR expenditure details are uploaded on the website and same can be accessed at http://www.hindenergy.com.
xxiv		Complied. Analysis of heavy metal content in raw coal, washed coal is carried out.
XXV.	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	Complied. The company is actively doing CSR activities in consultation with panchayats of nearby villages.
xxvi.	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	Complied. Air pollution control equipment are installed and Hind Energy is also actively doing CSR activities.





Sr. No.	Specific Conditions	Action Taken
xxvii.	CorporateEnvironmentResponsibility:a) The Company shall have a welllaiddownEnvironmentPolicyapproved by the Board ofDirectors.b)The Environment Policy shallprescribeforstandardprocess/procedurestobinetionforfocusanyinfringements/deviation/violationofthe environmentalorforest norms/conditions.c)The hierarchical systemc)The hierarchical systemcompany to deal with environmentalissuesand for ensuring compliancewiththe environmental clearanceconditionsshall be furnished.d)ToTohaveproperchecksandbalances, the company shall have awelllaidlaiddown systemofnon-compliances/violationsofDirectors of the company and/orshareholdersorstakeholdersatlarge.	Complied. Corporate Environment Policy in place and adhered.





#### **General Conditions:**

Sr.	General Conditions	Action Taken
No.	General Conditions	Action Taken
i.	No change in mining technology and	Noted and agreed.
	scope of working shall be made without	
	prior approval of the Ministry of	
••	Environment and Forests.	NY 4 1 1 . 1
іі.	No change in the calendar plan of	-
	production for quantum of mineral coal shall be made.	
iii.	Four ambient air quality monitoring	Complied. Four nos. of ambient
	stations shall be established in the core	air quality monitoring stations
	zone as well as in the buffer zone for	have been established & are
	$PM_{10}$ , $PM_{2.5}$ , $SO_2$ and $NOx$ monitoring.	operational for monitoring
	Location of the stations shall be decided	ambient air data. Heavy metals
	based on the meteorological data,	(Hg, As, Ni, Cd & Cr) are
	topographical features and	monitored. Ambient air quality
	environmentally and ecologically sensitive	monitoring data for current
	targets in consultation with the State	monitoring period is enclosed
	Pollution Control Board. Monitoring of	along with Status report.
	heavy metals such as Hg, As, Ni, Cd, Cr,	
	etc carried out at least once in six months.	
iv.	Data on ambient air quality ( $PM_{10}$ , $PM_{2.5}$ ,	Being Complied on regular basis.
1V.	SO <sub>2</sub> and NOx) and heavy metals such as	Being Complied on regular basis.
	Hg, As, Ni, Cd, Cr and other monitoring	
	data shall be regularly submitted to the	
	Ministry including its concerned Regional	
	Office and to the State Pollution Control	
	Board and the Central Pollution Control	
	Board once in six months. Random	
	verification of samples through analysis	
	from independent laboratories recognised	
	under the EPA rules, 1986 shall be	
L	furnished as part of compliance report.	Committed Brankinson O
v.	Adequate measures shall be taken for control of noise levels below 85 dBA in the	
	work environment. Workers engaged in	equipment's producing noise are covered with sound absorbing
	blasting and drilling operations, operation	material & ear plugs/muffs are
	of HEMM, etc shall be provided with ear	being provided to the workers in
	plugs/muffs.	noisy environment.
vi.	Industrial wastewater (workshop and	Complied. Effluent treatment
	wastewater from the mine) shall be	plant has been constructed and
	properly collected, treated so as to	the treated effluent is confirming
	conform to the standards prescribed	with CECB standards.
	under GSR 422 (E) dated 19th May 1993	
	and $31^{st}$ December 1993 or as amended	
	from time to time before discharge. Oil	
	and grease trap shall be installed before	
	discharge of workshop effluents.	





Sr.	General Conditions	Action Taken
No.		
vii.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Being complied. All the vehicles engaged in transportation are covered with tarpaulins and are maintained so as to follow emission norms.
viii.	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 analysed through a laboratory recognised under EPA Rules, 1986.	Complied. The environmental quality is being regularly monitored and analyzed through M/s Anacon Laboratory Pvt. Ltd., Nagpur, a MoEF recognized and NABET & NABL accredited Laboratory.
ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Complied. Protective Respiratory Devices are provided & safety appliances are being used by the workers. Shoes, mask helmet safety belt & ear plug, have been provided & adequate training has been given toworkers.
х.	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. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company whileout sourcing.	Complied. Protective Respiratory Devices are provided & safety appliances are being used by the workers. Shoes, mask helmet safety belt & ear plug, have been provided & adequate training has been given to workers. Regular health checkup taken periodically.
xi.	A separate environmental 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.	environment cell is in place which is headed by senior
xii.	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 its concerned Regional Office.	The details of fund used for environmental protection measures are provided in Annexure VI. A separate account (SBI, Bilaspur; A/c. No. 36262584886) has been opened for Environmental protection measures and year wise expenses will be submitted to Regional office periodically with Six monthly EC compliance reports.





Sr. No.	General Conditions	Action Taken
xiii.	The Project authorities 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 & Forests at http://envfor.nic.in.	May 2014 same is give to newspaper office immediately for publishing. However it was published on 30th May 2014. (Refer Annexure - VII).
xiv.	A copy of the environmental clearance letter shall be marked to concern Panchayat/ZilaParishad, 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.	Circulated and displayed in Gram Panchayat. EC letter was now uploaded on the company website along with other relevant data. Same can be accessed at <u>http://www.hindenergy.com</u> .
XV.	A copy of the environmental clearance letter shall be 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.	In purview of CECB, CG.
xvi.	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as $PM_{10}$ , $PM_{2.5}$ , $SO_2$ and NOx (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	EC letter was now uploaded on the company website along with Six monthly EC compliance reports till date along with environmental quality monitoring data. Environmental monitoring data is also displayed on main gate of the company. (Annexure- VIII).





Sr. No.	General Conditions	Action Taken
xvii.	The project proponent shall submit six monthly compliance reports on status of	Being complied.
	compliance of the stipulated environmental clearance conditions (both	
	in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.	
xviii.	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions.	Noted and full co-operation will be given to the official of the Hon'ble Ministry and all
	The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	data/document/reports as
xix.	The Environmental statement for each financial year ending 31 March in For -V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by-mail.	Being complied. Environmental Statement for each year is submitted to CECB regularly.





**Other Conditions:** 

Sr.       Other Conditions       Action Taken         No.       Action Taken         1.       The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.       Being Complied. Air pollution control measures and zero discharge measures have been installed. Plantation is done every year to increase green belt.         2.       The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent is required to obtain       Complied.         3.       The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Noted.         4.       The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.       Noted and agreed.         5.       The Proponent shall setup an a failure to comply with any of the conditions of false/fabricated data and failure to comply with any of the conditions methored above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.       Noted and agreed.         7.       The above conditions will be enforced inter-alia, under the provisions of the Environment (Protection) Act, 1986.       Noted and agreed.         7.       The above conditions will be enforced inter-alia, under the provisions of the Environment (Protection) Act, 1986.       Noted and agreed	otne	er Conditions:	
<ol> <li>The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.</li> <li>The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.</li> <li>The Proponent shall setup an Environment Audit cell with responsibility and accountability to conditions.</li> <li>The Proponent shall setup an Environment Audit cell with responsibility and accountability to conditions.</li> <li>Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions will be enforced inter-alia, under the provisions of the Shore condition ket (Prevention &amp; Control of Pollution) Act, 1986.</li> <li>The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1981, the Environment (Protection) Act, 1984, the Environment (Protection) Act, 1986, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of India/ High Courts and subject matter.</li> </ol>		Other Conditions	Action Taken
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made in the EIA/EMP report so also during their presentation to the EAC.       have been installed. Plantation is done every year to increase green belt.         2.       The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent       Complied.         3.       The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Complied. All clearances required are obtained.         4.       The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Noted.         5.       The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.       Being complied. Environment Cell is established for monitoring of EC conditions.         6.       Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.       Noted and agreed.         7.       The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Protection) Act	1.		
during their presentation to the EAC.       every year to increase green belt.         2.       The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent       Complied.         3.       The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Complied. All clearances required are obtained.         4.       The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Noted.         5.       The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.       Being complied. Environment Cell is established for monitoring of EC conditions.         6.       Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.       Noted and agreed.         7.       The above condition swill be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.			<b>U</b>
<ul> <li>2. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent</li> <li>3. The proponent is required to obtain all necessary clearances/approvals obtained.</li> <li>3. The project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.</li> <li>4. The Ministry or any other competent authority may stipulate any further condition for environmental protection.</li> <li>5. The Proponent shall setup an Environment Audit cell with responsibility and accountability to conditions.</li> <li>6. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</li> <li>7. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1974, the Air (Prevention &amp; Control of Pollution) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon<sup>5</sup>be Supreme Court of India/High Courts and any other court of India/High Courts and</li></ul>		-	
Proponent to the issue raised during Public Hearing shall be implemented by the Proponent       .         3.       The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Complied. All clearances required are obtained.         4.       The Ministry or any other competent authority may stipulate any further condition for environmental protection.       Noted.         5.       The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.       Being complied. Environment Cell is established for monitoring of EC conditions.         6.       Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.       Noted and agreed.         7.       The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1974, the Air (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.			
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The proponent shall ensure to			
undertake and provide for the costs		-	
incurred for taking up remedial		incurred for taking up remedial	





	measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.	
8.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Noted.
9.	This EC supersedes the earlier EC, vide letter no. J- 11015/190/2007-IA.II (M) dated 24.06.2008.	Noted.





#### **Annexure I:Letters from Truck Manufacturers**



To,

26/09/2018

The Director,

Hind Energy & Coal beneficiation (India) Ltd.,

Bllaspur.

Sub: Your query regarding mechanically covered & operated trucks.

Sir,

This is in reference to your letter dated 23/09/2013 regarding a query of mechanically covered & operated trucks.

We wish to inform you that presently we are not providing any mechanically covared & operated trucks in Tractor Traller range.

Regards,

For, Vata Motors timited.

#### TATA MOTORS LIMITED

Parthivi Pacific 2nd Floor Above Axis Bank Tatibandh GE Road Raipur 492.009 Cthattisgarh Tel 91 771 6675501 Fax 91 771 6675523 www.tatamotors.com Registered Office Bombay House 24 Homi Mody Street Mumbai 400.001









#### To Whomsoever It May Concern:

This is to certify that our company "AMW Motors Ltd" is one among the largest manufacturer of the heavy commercial vehicles in India.

Furthermore, we certify that we do not manufacture any heavy commercial vehicles which are mechanically covered and operated, and further till date we have no future plans to manufacture the same.

This is for you kind reference.

Assuring best services all time.



AMW Motors Ltd.

AMW HOTORS LTD (Demerged entity of Asia Motor Works Ltd.) Plant & Regd. Office : 34 Km. Milestone, Bhi-J. Behachau Road, Vilage Kanlayaba, Kachchh, Gujarat 370 020, India Tel.: (91-2532) 243700-10 (11 Basa), Fax: (91-2532) 243726 / 30. Web : www.amwasia.com Corporate Office : Asia MotorWorks L.M. 7h Floor. Town I, Business Park, (Peninsula Techno Park) Off Bandra Karla Road, L.B.S. Morg, Kuda (Web) Mambal - 400 670, Tel.: (91-22) 67101501 / 02 Fax: (91-22) 67101503 / 04







#### Annexure II: Railway Siding at Gatora







#### **Annexure III:Bag Filters**







#### Annexure IV: Plantation along the Road Side

















Annexure V: Boundary Walls and Sprinklers



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dectee	Water Taskan	Tameshwar Service	19-06-2018	water Sprinkelers Maintenance	
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#### Annexure VI : Details of Environment Protection Fund



Anacon Laboratories Private Limited, Nagpur	

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15,000	Dieser Consumation of Oct . 18	Water Tanker	30-11-2018	Venue Emission Related Expenses	Ca +
15,000	New Providence of the second	Water Tanker	31-10-2018	where childs and we are stored and and a stored and a store and a	4
TO'GT	Direct Construction of Cheffing	Water Tanker	8102 60-06	Unhista Carlanda Indiana aspendes	53
101	Diesel Consumption of Aux 18	Water Tanker	ath7.00.16	Vehicle Emission Related Exponsion	52
15,000	Diesel Consumption of July 18	Anates launes	24 //0 3010	Vehicle Emission Related Expervers	57
15,000	Diesel Consumption of June 18	and the second statements	31-07-2018	Vehicle Emission Related Expenses	00
15,000	Dresel Consumption of May .18	Water Tealer	30-06-2018	Vehicle Emission Related Expenses	1
15,000	Ovesel Consumption of April 18	Water Fanker	31-05-2018	Vehicle Emission Related Expenses	10
77,290	Plocuant Powder	Water Tankor	30-04-2018	Ivenicle Emission Related Expenses	16
77,530	i griezunieter wurchase	Nalco Water India 114	11-08-2018	Setting Tour	24
57,000	A Preconnects Purchase adv	Clean Environmental Instrumental Precording and	27-07-2018	inverses paters for the second second	ne l
1,33,555	100000 Contra maint	Clean Enviormental Instrument	29-05-2018	Prisen Dell Malifenance	de
3,00,000	Thereast Party and Andrew	NavKishan Bio Plantee co	8102-50 52	Course Daly 6.5.1.	AA
010/0711	Teak Plant final Decimant	NavKishan Bio Plantec co	RLD7-905-DT	Green Rolt Maintassan	43
Et a	Teak Plant Adv.	Waykishan Bio Plantec co	40 00 1010	Green Belt Maintesance	42
5,550	Pollution testing	March 1 and a strange of the	12-07-2018	Green Belt Maintenance	41
1.58,011	MS Ariget for Sprinkler Work	DUTIAL Toda Print militarian	26-06-2018	Vehicle pallation testing	10
55,000	Pape-Dropping with Hole	Che Briches Inchesters	27-06-2018	Water Sprinkelers Maintenance	00
61,317	oproveders maintance Work	A & Mindrate & Manufactory	24-10-22018	water sprinkelers Maintenance	26
9,36,802	AJON SIGNATION STATEMENT	Goval Pinas & Markham	8102:80-90	and a state of the	4
10,780	Contract a second	Bindal Pipes	21-05-2018	Winter Could a reading and the	27
noter	Water Tanker	Pramod Ku Sharma	0102-60-ET	Water Sprinkstere Adaption	36
	Water Tanker	Fameshwar Service	10 00 0000	Water Sprinkelers Maintenance	35
10.70	Water Tanker	risenod ku Sharma		Water Sprinkelers Maintenunce	34
		Real Provide And	RLDC-SDEC	I water oprusciers Maintenance	18





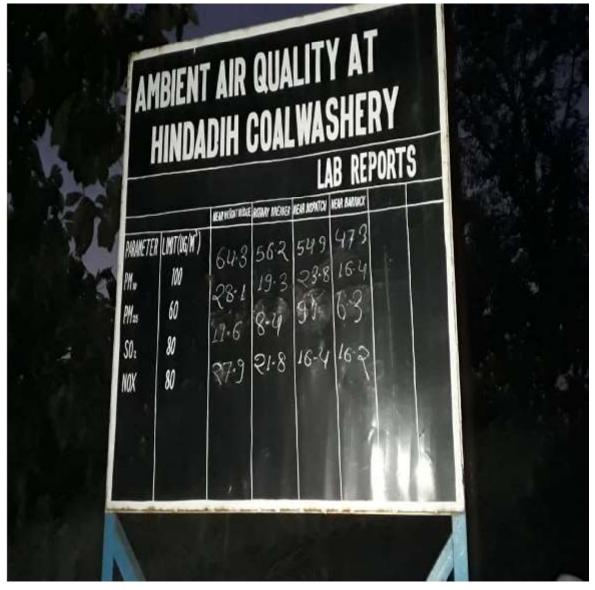
#### Annexure VII: Paper Advisement of Environmental Clearance by MOEF







Annexure- VIII : AAQ DATA OF MAIN GATE









#### Annexure – IX: Approach road





#### **ENVIRONMENTAL STATUS REPORT**

#### Air Quality Monitoring

Regular monitoring of environmental parameters is of immense importance to assess the status of environment. With the knowledge of baseline conditions, the monitoring program will serve as an indicator for any deterioration in environmental conditions due to mining operation. Suitable mitigation steps will be taken in time to safeguard the environment, based on monitoring reports. Monitoring is important in the control of pollution since the efficiency of control measures can only be determined by monitoring.

In order to find out the impact of plant activity on sensitive receptors, it is necessary to monitor Environmental Quality to know the level of concentrations of pollutants within and around the plant area. Accordingly Hind Energy & Coal Beneficiation (India) Ltd. monitoring air, quality on monthly basis.

#### Ambient Air Quality Monitoring

Ambient Air Quality was monitored at four locations within plant premises and four locations in nearby villages. Fugitive emissions were monitored at two locations in the plant premises.

Thesamplingstationsareselectedattheabovementionedlocations,indownwindandupwi nddirectionsoftheIndustry.ALPLiscarryingoutregularmonitoringfor,SPM,RPM,SO<sub>2</sub>, NOx and heavy metals at above Ambient Air Quality Monitoring (AAQM) locations. Monitoring of fugitive emissions include parameters SPM, PM<sub>10</sub>, SO<sub>2</sub>&NOx.

#### Frequency of Sampling

Ambient air quality monitoring was carried out on 24 hourly on quarterly basis (once in a quarter) for the monitoring period.

#### **Duration of Sampling**

The duration of sampling for  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$ ,  $NO_x$  and heavy metals is twenty-four hourly. Data is compared with the standards mentioned in the Gazette Notification of the Central Pollution Control Board (CPCB) Notification 16<sup>th</sup> Nov. 2009.

#### Methods and Instruments used for Sampling

The air samples were analyzed as per methods specified by Central Pollution Control Board (CPCB).

The levels of Suspended Particulate Matter, Respirable Particulate Matter, Sulphur Dioxide (SO<sub>2</sub>), Oxides of Nitrogen (NO<sub>X</sub>) & heavy metals were monitored for identifying the impact on surrounding area.  $PM_{10}$  and  $PM_{2.5}$  were collected with the help of Respirable particulate sampler and Fine particulate sampler operating 24 hours and is computed by gravimetric method. Due to the high flow rate of air, the vacuum is formed into the hopper region of sampler which is tapped by providing a nozzle in the hopper which sucks the ambient air for sampling SO<sub>2</sub> and NO<sub>x</sub>. The





gases were measured by wet chemical method and were analyzed by colorimetrical. The measurement techniques used for various pollutants and other details are given in below:

Sr.	Parameter	Method	Technical	Minimum
No.			Protocol	Detection
				limit (µg/m³)
1.	Suspended	<b>Respirable Dust</b>	IS-5182	5
	Particulate	Sampler	(Part – IV)	
	Matter, SPM	(Gravimetric		
		Method)		
2.	Respirable	<b>Respirable Dust</b>	IS-5182	5
	Particulate	Sampler	(Part – IV)	
	Matter, PM <sub>10</sub>	(Gravimetric		
		Method)		
3.	Fine	Fine Particulate	IS-5182	-
	Particulate	Sampler	(Part-IV)	
	Matter, PM <sub>2.5</sub>	(Gravimetric		
		Method)		
4.	Sulphur Dioxide	Improved West	IS-5182	4
		and Geake	(Part – II)	
_		Method		
5.	Oxide of Nitrogen	Jacob	IS-5182	4
		&Hochheiser	(Part – VI)	
-		Modified Method		
6.	Heavy Metals	Acid digestion	CPCB	0.0001
			Guideline (Vol.	
			1)	

#### Measurement Techniques for Various Pollutants

#### Ambient Air Quality

The ambient air quality monitoring was carried out at 4 locations in the Plant premises and 4 locations in the nearby villages in upwind, downwind and crosswind directions of the coal washery project. The air quality monitoring was conducted for  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$ ,  $NO_x$  and heavy meals during this monitoring period.

Fugitive emission monitoring was carried out at two locations within the washery premises during this period for the parameters which includes SPM,  $PM_{10}$ ,  $SO_2$ &NOx.

Overall the ambient air concentrations of  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$ ,  $NO_x$  and heavy meals were observed to be well within the limits of concentrations promulgated by CPCB, New Delhi.

National Ambient Air Quality Standard:  $PM_{10}$  (RPM):  $100 \mu g/m^3$ ,  $PM_{2.5}$ :  $60 \mu g/m^3SO_2$ :  $80 \mu g/m^3$  and  $NO_x$ :  $80 \mu g/m^3$ 





# July-Aug-Sept 2018



Accredited By Quality C Authorised by Peport For The N	ANACON LABORAT ISO 14001:2004, OHS By Ministry of Environme Jouncil of India by NABET Food Safely & Standard Approved by Bureau of Int Anorth of July-A	AS 1800 et & Fore - Enviror Authorit dian Stan	t Centrats (A	tified Organi. MoEF), New	Delthi		
Accredited By Quality C Authorised by Peport For The N	ANACON LABORAT 8, ISO 14001:2004, OHS By Ministry of Environme Jouncil of India by NABET Food Safely & Standard upproved by Bureau of Ind	AS 1800 et & Fore - Enviror Authorit dian Stan	t Centrats (A	tified Organi. MoEF), New	Delthi		
Accredited By Quality C Authorised by Peport For The N	By Ministry of Environme ouncil of India by NABET Food Safety & Standards opproved by Bureau of Ind	nt & Fore - Enviror Authorit dian Stan	sts (/ when y of h	MOEFS, New	Delthi		
	Aonth of July-A		dards	ndia Under F	essment St	udies	
		ugust	-Se	ptembe	r-2018	(Otrly)	1
	MONITORING A						
- AN/A	A/HECBIL/2018-19/3	47-1	Rep	ort Date:-		29.09	9.2018
ient & M/							.TD.
k:- An	bient Air Monitoring (September-2018)	;	Sam	ple Ref.No	N 24	1819/M	lon-233-1
wn By: Ar	acon Representative		Sam	ple Receiv	ed Date	24.0	9.2018
lysis :- 25.	09.2018 To 26.09.2018	3	Tes	ting Perio	d	01	Day
			3		(24 her	Camplin	
Sampling Location	Sampling Date			PM2.5 µg/m	S	01	NO <sub>3</sub> µg/m <sup>3</sup>
Near Steel Yard	20.09.2018	64.3		28.1			27.9
and the second se	er 20.09.2018	56.2	2	19.3	8	4	21.8
and the second se	21.09.2018		-	23.8	9	.1	16.4
	21.09.2018			16.4	6	.3	16.2
dards	0	100	)	60		80	80
ampling Location	Sampling Date	- 77	12.50	As ng/m <sup>3</sup>	Ni ng/m <sup>3</sup>	Cd µg/m³	Cr µg/m
ear Steel Yard	20.09.2018	0.04	3.	ND	0.051	ND	ND
the second s	20.09.2018		-	ND	0.038	ND	ND
Concernsion of the Concernsion o		-		ND	0.043	ND	ND
	21.09.2018		-	ND	0.041	ND	ND
		202		6.0 (annual)	20.0 (annual)		
tilizing our services. -SNY				А	uthorized	a d Signato	D'ANS
	k:- An wn By : Ar lysis :- 25, Sampling Location Near Steel Yard Near Rotary Breake Near Dispatch Near Barrack dards umpling Location ear Steel Yard ear Rotary Breaker ear Dispatch ear Barrack dards tilizing our services.	Ambient Air Monitoring (September-2018)         wn By :       Anacon Representative (September-2018)         lysis :-       25.09.2018 To 26.09.2018         Sampling Location       Sampling Date         Near Steel Yard       20.09.2018         Near Steel Yard       20.09.2018         Near Rotary Breaker       20.09.2018         Near Dispatch       21.09.2018         dards       ampling Date         ar Steel Yard       20.09.2018         dards       ampling Date         ar Barrack       21.09.2018         ear Steel Yard       20.09.2018         ear Steel Yard       20.09.2018         ear Barrack       21.09.2018         ear Barrack       21.09.2018	Kith Kith       Ambient Air Monitoring (September-2018)         wn By :       Anacon Representative         lysis :-       25.09.2018 To 26.09.2018         Sampling Location       Sampling Date       PMi µg/n         Near Steel Yard       20.09.2018       56.2         Near Rotary Breaker       20.09.2018       56.2         Near Dispatch       21.09.2018       47.3         dards       100         mpling Location       Sampling Date       Pb µg/n         ear Steel Yard       20.09.2018       0.04         ear Steel Yard       20.09.2018       0.04         dards       100       100         mpling Location       Sampling Date       Pb µg/n         ear Steel Yard       20.09.2018       0.04         ear Rotary Breaker       20.09.2018       0.02         ear Barrack       21.09.2018       0.02	Village:- Hindadih, Sipat ,         K:-       Ambient Air Monitoring (September-2018)       Sam         wn By :       Anacon Representative       Sam         lysis :-       25.09.2018 To 26.09.2018       Test         Sampling Location       Sampling Date       PM:* µg/m³         Near Steel Yard       20.09.2018       56.2         Near Rotary Breaker       20.09.2018       56.2         Near Barrack       21.09.2018       54.9         Mardas       100       100         mpling Location       Sampling Date       Pb µg/m³         ear Barrack       21.09.2018       0.043         ear Steel Yard       20.09.2018       0.043         ear Rotary Breaker       20.09.2018       0.043         ear Steel Yard       20.09.2018       0.021         ear Barrack       21.09.2018       0.027         dards       1.0       (24 hrs)         tillzing our services. <t< td=""><td>Village:- Hindadih, Sipat , Bilaspur         K:-       Ambient Air Monitoring (September-2018)       Sample Ref.No (September-2018)         wn By :       Anacon Representative       Sample Receive Sampling Receive         lysis :-       25.09.2018 To 26.09.2018       Testing Period         Sampling Location       Sampling Date       PMm       PMzs µg/m<sup>3</sup>         Near Steel Yard       20.09.2018       64.3       28.1         Near Rotary Breaker       20.09.2018       56.2       19.3         Near Dispatch       21.09.2018       54.9       23.8         Near Barrack       21.09.2018       47.3       16.4         dards       100       60         mpling Location       Sampling Date       Pb µg/m<sup>3</sup>       ng/m<sup>3</sup>         ear Steel Yard       20.09.2018       0.043       ND         ear Steel Yard       20.09.2018       0.021       ND         ear Barrack       21.09.2018       0.027       ND         ear Barrack       21.09.2018       0.027       ND         dards       1.0       6.0       (annual)         tilizing our services.       1.0       6.0</td><td>Village:- Hindadih, Sipat , Bilaspur (C.G.)-49         k :-       Ambient Air Monitoring (September-2018)       Sample Ref.No. :-         wn By :       Anacon Representative       Sample Received Date         lysis :-       25.09.2018 To 26.09.2018       Testing Period         (24 hrs         Sampling Location       Sampling Date       PM:n       PM2.5       Su         Near Steel Yard       20.09.2018       64.3       28.1       11         Near Rotary Breaker       20.09.2018       56.2       19.3       8         Near Dispatch       21.09.2018       54.9       23.8       9         Near Barrack       21.09.2018       47.3       16.4       6         dards       100       60       3         mpling Location       Sampling Date       Pb       As       Ni         ard Steel Yard       20.09.2018       0.043       ND       0.051         ear Steel Yard       20.09.2018       0.021       ND       0.038         ear Dispatch       21.09.2018       0.027       ND       0.041         dards       1.0       6.0       20.0       (annual)       (annual)         dards       1.0       6.0</td><td>Village:- Hindadih, Sipat, Bilaspur (C.G.)-495 001.           K:         Ambient Air Monitoring (September-2018)         Sample Ref.No. :-         1819/M           wn By :         Anacon Representative         Sample Received Date         24.09           lysis :-         25.09.2018 To 26.09.2018         Testing Period         01           (24 hrs Sampling Sampling Location         Sampling Date         PMin         PM23         SO2           Near Steel Yard         20.09.2018         64.3         28.1         11.6         11.6           Near Rotary Breaker         20.09.2018         56.2         19.3         8.4           Near Dispatch         21.09.2018         54.9         23.8         9.1           Near Barrack         21.09.2018         47.3         16.4         6.3           dards         100         60         80         100           ar Steel Yard         20.09.2018         0.043         ND         0.051         ND           ear Steel Yard         20.09.2018         0.021         ND         0.038         ND           ear Steel Yard         20.09.2018         0.021         ND         0.038         ND           ear Barrack         21.09.2018         0.021         ND</td></t<>	Village:- Hindadih, Sipat , Bilaspur         K:-       Ambient Air Monitoring (September-2018)       Sample Ref.No (September-2018)         wn By :       Anacon Representative       Sample Receive Sampling Receive         lysis :-       25.09.2018 To 26.09.2018       Testing Period         Sampling Location       Sampling Date       PMm       PMzs µg/m <sup>3</sup> Near Steel Yard       20.09.2018       64.3       28.1         Near Rotary Breaker       20.09.2018       56.2       19.3         Near Dispatch       21.09.2018       54.9       23.8         Near Barrack       21.09.2018       47.3       16.4         dards       100       60         mpling Location       Sampling Date       Pb µg/m <sup>3</sup> ng/m <sup>3</sup> ear Steel Yard       20.09.2018       0.043       ND         ear Steel Yard       20.09.2018       0.021       ND         ear Barrack       21.09.2018       0.027       ND         ear Barrack       21.09.2018       0.027       ND         dards       1.0       6.0       (annual)         tilizing our services.       1.0       6.0	Village:- Hindadih, Sipat , Bilaspur (C.G.)-49         k :-       Ambient Air Monitoring (September-2018)       Sample Ref.No. :-         wn By :       Anacon Representative       Sample Received Date         lysis :-       25.09.2018 To 26.09.2018       Testing Period         (24 hrs         Sampling Location       Sampling Date       PM:n       PM2.5       Su         Near Steel Yard       20.09.2018       64.3       28.1       11         Near Rotary Breaker       20.09.2018       56.2       19.3       8         Near Dispatch       21.09.2018       54.9       23.8       9         Near Barrack       21.09.2018       47.3       16.4       6         dards       100       60       3         mpling Location       Sampling Date       Pb       As       Ni         ard Steel Yard       20.09.2018       0.043       ND       0.051         ear Steel Yard       20.09.2018       0.021       ND       0.038         ear Dispatch       21.09.2018       0.027       ND       0.041         dards       1.0       6.0       20.0       (annual)       (annual)         dards       1.0       6.0	Village:- Hindadih, Sipat, Bilaspur (C.G.)-495 001.           K:         Ambient Air Monitoring (September-2018)         Sample Ref.No. :-         1819/M           wn By :         Anacon Representative         Sample Received Date         24.09           lysis :-         25.09.2018 To 26.09.2018         Testing Period         01           (24 hrs Sampling Sampling Location         Sampling Date         PMin         PM23         SO2           Near Steel Yard         20.09.2018         64.3         28.1         11.6         11.6           Near Rotary Breaker         20.09.2018         56.2         19.3         8.4           Near Dispatch         21.09.2018         54.9         23.8         9.1           Near Barrack         21.09.2018         47.3         16.4         6.3           dards         100         60         80         100           ar Steel Yard         20.09.2018         0.043         ND         0.051         ND           ear Steel Yard         20.09.2018         0.021         ND         0.038         ND           ear Steel Yard         20.09.2018         0.021         ND         0.038         ND           ear Barrack         21.09.2018         0.021         ND





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<u>[R</u>		The Month	of July-Aug	ust-	<u>September-20</u> nalysis Repor		<u>ly)]</u>
Report N			BIL/2018-19/347	-	Report Date:-	-	9.2018
Name of Address:-		Villa		Seep	OAL BENIFICA at , Bilaspur (C.C		Contraction of the second
Type of W	20.20%	(Septem)	ber-2018)	Sam	ple Ref.No. :-	1819/N	10n-233-2
	brawn By :	Anacon Rep	presentative	Sam	ple Received Date	24.0	9.2018
Date of A	nalysis :-	25.09.2018 T	o 26.09.2018	Test	ing Period	01	Day
SL. NO.	Sampling	Location	Sampling D	Date	SPM µg/m³	SO2 µg/m <sup>3</sup>	NO. µg/m
1	Near Weig	ht Bridge	20.09.201	8	312	13.4	31.8
2	Near Envir	onment Lab	21.09.201	8	184	7.3	18,6
	c	PCB Standards			-	s <del></del>	-
	t. Sny	our services				Jaw ized Sign	- A





IReport For The Month of July-August-September-2018 (Qtrly)]         Fugitive Dust Monitoring Analysis Report         Report No.:-       AN/FE/HECBIL/2018-19/347-3       Report Date:-       29.09.2018         Name of Client & Address:-       M/s HIND ENERGY AND COAL BENIFICATION (1) LTD. Village:- Hindadih, Seepat, Bilaspur (C.G.)-495 001.       1819/Mon-233-33         Type of Work :-       Fugitive Dust Monitoring (September-2018)       Sample Received Date       24.09.2018         Date of Analysis :-       25.09.2018 To 26.09.2018       Testing Period       01 Day         SL NO.       Sampling Location       Sampling Date       SPM µg/m³       SO <sub>1</sub> µg/m³         1       New Value Re Police Analysis -       24.09.2018       04.09.2018		Accredited By	ANACON LA ANACON LA 9001:2008, ISO 14001:2 ecognized By Ministry of E y Quality Council of India horised by Food Safety & Approved by Bu	BORATOR 004. OHSAS Environment & by NABET - E Standards Au	IES PA 18001 C Forest nvironm	VT. LTD. Sertified Or s (MoEF), f ent Impact of India Unc	New Delhi	TEST I	REPOR
Name of Client & Address:-       M/s HIND ENERGY AND COAL BENIFICATION (1) LTD. Village:- Hindadih, Seepat , Bilaspur (C.G.)-495 001.         Type of Work :-       Fugitive Dust Monitoring (September-2018)       Sample Ref.No. :-       1819/Mon-233-3         Sample Drawn By:       Anacon Representative       Sample Received Date       24.09.2018         Date of Analysis :-       25.09.2018 To 26.09.2018       Testing Period       01 Day         SL NO.       Sampling Location       Sampling Date       SPM µg/m³       SO1 µg/m³         1       Near Vehicles Parking Area       21.09.2018       216       11.3       26.7         CPCB Standards         Thanks for utilizing our services	<u>[R</u>		The Month of ]	uly-Aug	ust-S	Septem			<u>ly)]</u>
Address:-       Village:- Hindadih, Seepat , Bilaspur (C.G.)-495 001.         Type of Work :-       Fugitive Dust Monitoring (September-2018)       Sample Ref.No. :-       1819/Mon-233-3         Sample Drawn By:       Anacon Representative       Sample Received Date       24.09.2018         Date of Analysis :-       25.09.2018 To 26.09.2018       Testing Period       01 Day         SL NO.       Sampling Location       Sampling Date       SPM µg/m³       SO: µg/m³       NO. µg/m³         1       Near Vehicles Parking Area       21.09.2018       216       11.3       26.7         Thanks for utilizing our services	Report N	0.:+	AN/FE/HECBIL/2	2018-19/347	-3 1	Report D	ate:-	29.0	9.2018
Sample Drawn By:       Anacon Representative       Sample Received Date       24.09.2018         Date of Analysis :-       25.09.2018 To 26.09.2018       Testing Period       01 Day         SL. NO.       Sampling Location       Sampling Date       SPM µg/m³       SO1 µg/m³       NOx µg/m³         1       Near Vehicles Parking Area       21.09.2018       216       11.3       26.7         CPCB Standards         Thanks for utilizing our services									
Sample Drawn By:       Anacon Representative       Sample Received Date       24.09.2018         Date of Analysis :-       25.09.2018 To 26.09.2018       Testing Period       01 Day         SL NO.       Sampling Location       Sampling Date       SPM µg/m³       SO: µg/m³       NO. µg/m³         1       Near Vehicles Parking Area       21.09.2018       216       11.3       26.7         CPCB Standards         Thanks for utilizing our services	Type of W	ork :-			Samp	ple Ref.N	0, :-	1819/\	fon-233-3
SL. NO. Sampling Location Sampling Date SPM µg/m³ µg/m 1 Near Vehicles Parking Area 21.09.2018 216 11.3 26.7 CPCB Standards	Sample D	Prawn By :	and the second sec	and the second se	Samp	ole Receiv	red Date	24.0	9.2018
Section     Sampling Date     µg/m³     µg/m³     µg/m³       1     Near Vehicles Parking Area     21.09.2018     216     11.3     26.7       CPCB Standards	Date of A	nalysis :-	25.09.2018 To 26.	09.2018	Testi	ing Perio	d	01	Day
SEE NO.     Sampling Location     Sampling Date     µg/m³     µg/m³     µg/m³       1     Near Vehicles Parking Area     21.09.2018     216     11.3     26.7       CPCB Standards					5				
CPCB Standards Thanks for utilizing our services	SL. NO.	Sampling	Location	Samplin	g Date	NU 378	810.0		
Thanks for utilizing our services	1	Near Vehi	icles Parking Area	21.09.	2018	21	6	11.3	26.7
Stawp			CPCB Standards				-		-
			Our services						2





25. 1			0		TEST REPORT
		ANAC	<b>AN</b>	LABS	
	Accredite	ANACON LABOI ISO 9001-2008, ISO 14001-2004, Recognized By Ministry of Envir d By Quality Council of India by N/ Authorised by Food Safety & Stan Approved by Bureau	CHSAS	IES PVT. LTD. 18001 Certified Organizati Forests (MOEF), New Dol nvironment Impact Assess thority of India Under FSS	hi ment Studies
	[Report	For The Month of July-, NOISE MONITO			( <u>Qtrly)]</u>
Reno	rt No.:-				
Mepo		AN/NE/HECBIL/2018-19		Report Date:-	29/09/2018
lame of Clie ddress:- ype of Work		M/s HIND ENERG Village:- Hind Noise Monitorir	adih, S	ipat , Bilaspur (C.G	
		(September-2018	<u> </u>	Sample Ref.No. >	1819/Mon-233-N
ample Drav	vn By :	Anacon Represent	ative	Data Received	24.09.2018
1000000	f Samplin	ng: 20.09.2018-21.09.2018.		RESULT d	R(A)
SL, NO.		LOCATION	1	Day Time	Night Time
Core Zone			193		Tright Thine
	Near Stee	l Yard		57.2	46.1
1. F . S . S . S . S . S . S . S . S . S	the second s	iry Breaker		48.3	39.2
	Near Disp	the further is a second s		56.7	42.9
	Near Barr	ack		56.2	47.3
CPCB Stan	The second s				
Residential	the second se	100		55	45
Industrial A				75	70
Commercia	and the second se			65	55
Thanks for u Chemis			ANA	CON LABORATORIE	
				72404524, Email : http://www.com/	AHAC MILAUS





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	Accredited By C	001:2008, ISO 140 ognized By Ministr Vality Council of In rised by Food Safe	I LABORATORIES P 101:2004, OHSAS 18001 101 OHSAS 18001	Certified Org its (MoEF), N ment Impact /	ew Delhi	ies
		1		Rea	port NoALPL/2	0002018/248 4
HIND Villag Seep	JED TO: DENERGY AND COAL BENIFI ge:- Hindadih at., Bilaspur (C.G.)-495 001.	CATION (1) LTD.	Sample Inward No. Report Issue Date Your Reference Reference Date	: 1819Mor : 29.09.20	1-233-GW1 18 HINDADIH/BSP/20	
amp	ele Category : Ground Water ele Code : GW-1 ele Location : Near Main Gate					
Quan		24.09.2018 2 L	Analysis Starting Date Analysis Completion Date Tests required	: 28.0	09.2018 09.2018 09r.w.o.	
iamp	Ban Barris	22.09.2018	Sampled by	I Ana	con Representative	0
Sr. No	Test Parameter	Measurement Unit	Test Method	15 10 (Drinking Wa Including A	ement as per 1500 : 2012 Mer Specifications) mendment No. 2	Test Result
				Acceptable	Permissible	
1	rdF value		6	Limit	Limit #	
1.	pH value Electrical Conductivity at 25PC	+	15 3025 (Part 11)	Limit 6.5 to 8.5		7.73 at 25%
	pH value Electrical Conductivity at 29°C Turtidity	- jas/cm NTU	15 3025 (Part 14)	6.5 to 8.5	Limit s No relaxation	513,64
2.3.4	Electrical Conductivity at 29°C Turbidity Apparent colour	the second se	the second design of the secon	6.5 to 8.5	Limit # No relaxation - 5	513,64 0.7
2 3 4 5	Electrical Conductivity at 29°C Turbidity Apparent colour Odour	NTU	IS 3025 (Part 14) IS 3025 (Part 10) IS 3025 (Part 4) IS 3025 (Part 4) IS 3025 (Part 5)	6.5 to 8.5	Limit # No relaxation 5 15	513.64 0.7 I
2.3.4	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste	NTU Hazen units	15.3025 (Part 14) 15.3025 (Part 10) 15.3025 (Part 10) 15.3025 (Part 4) 15.3025 (Part 5) 15.3025 (Part 8)	6.5 to 8.5 - 1 5 Agreeable Agreeable	Limit # No relaxation - 5	513,64 0.7
2 3 4 5 6	Electrical Conductivity at 29°C Turbidity Apparent colour Odour	NTU Hazen units mg/l	15.3025 (Part 14) 15.3025 (Part 10) 15.3025 (Part 10) 15.3025 (Part 4) 15.3025 (Part 5) 15.3025 (Part 8) 15.3025 (Part 2)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0	Limit s No relaxation 5 15 Agreeable Agreeable No relaxation	513.64 0.7 I Agreeable
234 557 89	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TD6) Fluotide (as F)	NTU Hazen units	15.3025 (Part 14) 15.3025 (Part 10) 15.3025 (Part 10) 15.3025 (Part 4) 15.3025 (Part 5) 15.3025 (Part 8)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0 500	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000	513.64 0.7 I Agreeable Agreeable 0.14 288
2 3 4 5 6 7 8 9,10	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TD6) Fluotide (as F) Cyanide (as CN)	NTU Hazen units 	15.3025 (Part 14) 15.3025 (Part 10) 15.3025 (Part 4) 15.3025 (Part 4) 15.3025 (Part 5) 15.3025 (Part 2) 15.3025 (Part 16)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000 1.5	513.64 0.7 I Agreeable 0.14 288 0.21
2 3 4 5 6 7 8 9, 10 11	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyanide (as CN) Chlorides (as Cl)	NTU           Hazen units           -           <	15 3025 (Part 14) 15 3025 (Part 10) 15 3025 (Part 4) 15 3025 (Part 4) 15 3025 (Part 5) 15 3025 (Part 8) 15 3025 (Part 2) 15 3025 (Part 16) 15 3025 (Part 16) 15 3025 (Part 27) 15 3025 (Part 32)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0 500 1.0	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000	513.64 0.7 I Agreeable Agreeable 0.14 288
2 3 4 5 6 7 8 9,10	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TD6) Fluoride (as F) Cyanide (as CN) Chilorides (as Cl) Free residual chlorine	NTU Hazen units 	15 3025 (Part 14) 15 3025 (Part 10) 15 3025 (Part 4) 15 3025 (Part 4) 15 3025 (Part 5) 15 3025 (Part 8) 15 3025 (Part 2) 15 3025 (Part 16) 15 3025 (Part 60) 15 3025 (Part 32) 15 3025 (Part 32) 15 3025 (Part 26)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0 500 50	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000 1.5 No relaxation 1000 1	513.64 0.7 1 Agreeable 0.14 288 0.21 <0.005
2 3 4 5 6 7 8 9, 10, 11, 12, 13,	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyanide (as CN) Chlorides (as CN) Chlorides (as CL) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs)	NTU           Hazen units           -           <	15 3025 (Part 14) 15 3025 (Part 10) 15 3025 (Part 10) 15 3025 (Part 4) 15 3025 (Part 5) 15 3025 (Part 8) 15 3025 (Part 16) 15 3025 (Part 16) 15 3025 (Part 60) 15 3025 (Part 32) 15 3025 (Part 32) 15 3025 (Part 32) 15 3025 (Part 23)	6.5 to 8.5 - 1 5 Agreeable 1.0 500 1.0 0.05 250 Min. 0.2 200	Limit # No relaxation 5 15 Agreeable Agreeable Agreeable No relaxation 1.5 No relaxation 1.5 No relaxation 1.5 000 1.5	513,64 0.7 1 Agreeable 0.14 288 0.21 <0.005 43,81 <0.1 121,63
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyanide (as CN) Chlorides (as CN) Chlorides (as CL) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca)	NTU Hazen units 	15 3025 (Part 14) 15 3025 (Part 10) 15 3025 (Part 4) 15 3025 (Part 5) 15 3025 (Part 8) 15 3025 (Part 8) 15 3025 (Part 16) 15 3025 (Part 16) 15 3025 (Part 32) 15 3025 (Part 32) 15 3025 (Part 32)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0 500 50	Limit # No relavation 5 15 Agreeable Agreeable No relavation 2000 1.5 No relavation 1.5 No relavation 1.5 000 1 1 600 600	513,64 0.7 1 Agreeable 0.14 288 0.21 <0.005 43,81 <0.1 121,63 183,29
2 3 4 5 6 7 8 9, 10 11 12 13 14 15 16	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyatide (as CN) Chlorides (as CN) Chlorides (as CN) Chlorides (as CaCO) Total alkalinity (as CaCO) Total alkalinity (as CaCO) Calcium (as Ca) Magnesium (as Mg)	NTU Hazen units 	IS 3025 (Part 14) IS 3025 (Part 10) IS 3025 (Part 4) IS 3025 (Part 4) IS 3025 (Part 5) IS 3025 (Part 8) IS 3025 (Part 8) IS 3025 (Part 16) IS 3025 (Part 16) IS 3025 (Part 16) IS 3025 (Part 27) IS 3025 (Part 40) IS 3025 (Part 40) IS 3025 (Part 46)	6.5 to 8.5 - 1 5 Agreeable 1.0 500 1.0 0.05 250 Min. 0.2 200 200	Limit # No relaxation 5 15 Agreeable Agreeable Agreeable No relaxation 1.5 No relaxation 1.5 No relaxation 1.5 000 1.5	513,64 0.7 1 Agreeable Agreeable 0.14 288 0.21 <0.005 43,81 <0.1 121,63
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyanide (as CN) Chlorides (as CN) Chlorides (as CN) Chlorides (as CN) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) fulphate (as SOs)	NTU           Hazen units           -           mg/l	IS 3025 (Part 14) IS 3025 (Part 10) IS 3025 (Part 4) IS 3025 (Part 4) IS 3025 (Part 5) IS 3025 (Part 8) IS 3025 (Part 2) IS 3025 (Part 16) IS 3025 (Part 60) IS 3025 (Part 27) IS 3025 (Part 40) IS 3025 (Part 40)	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0 500 1.0 0.05 250 Min. 0.2 200 73 30 200	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000 1.5 No relaxation 1000 1 1 600 600 600 200	513,64 0.7 1 Agreeable 0.14 288 0.21 <0.005 43,81 <0.1 121,63 183,29 58,27
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyatide (as CN) Chlorides (as CN) Chlorides (as CN) Chlorides (as CaCO) Total alkalinity (as CaCO) Total alkalinity (as CaCO) Calcium (as Ca) Magnesium (as Mg)	NTU           Hazen units           -           mg/l	IS 3025 (Part 14) IS 3025 (Part 10) IS 3025 (Part 10) IS 3025 (Part 4) IS 3025 (Part 5) IS 3025 (Part 8) IS 3025 (Part 2) IS 3025 (Part 16) IS 3025 (Part 27) IS 3025 (Part 28) IS 3025 (Part 28) IS 3025 (Part 24) IS 3025 (Part 24) APELA Method	6.5 to 8.5 	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000 1.5 No relaxation 1000 1 600 600 600 200 100 100 100 No relaxation	513,64 0.7 1 Agreeable 0.14 288 0.21 <0.005 43,81 <0.1 121,63 183,29 58,27 9,16
2 3 4 5 7 8 9, 10 11 12 13 14 15 16 17 18 19, 19, 10, 11, 10, 11, 11, 12, 13, 14, 15, 16, 17, 18, 19, 10, 11, 11, 11, 12, 11, 14, 15, 16, 17, 16, 17, 16, 16, 16, 17, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iren (as Fe) Total dissolved solids (TDS) Fluotide (as F) Cyanide (as CN) Chlorides (as CN) Chlorides (as CN) Chlorides (as CN) Free residual chlorine Total disability (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) fulphate (as SOs) Nitrates (as NOs)	NTU           Hazen units	15 3025 (Part 14) 15 3025 (Part 10) 15 3025 (Part 4) 15 3025 (Part 4) 15 3025 (Part 5) 15 3025 (Part 2) 15 3025 (Part 2) 15 3025 (Part 16) 15 3025 (Part 16) 15 3025 (Part 27) 15 3025 (Part 27) 15 3025 (Part 27) 15 3025 (Part 28) 15 3025 (Part 21) 15 3025 (Part 40) 15 3025 (Part 40)	6.5 to 8.5 - 1 5 Agreeable 1.0 500 1.0 500 1.0 0.05 250 Min. 0.2 200 200 200 200 25 30 200 45 0.05	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000 1.5 No relaxation 1000 1 600 600 200 100 100 100 100 100 100 100 100 1	513,64 0.7 1 Agrecable 0.14 288 0.21 <0.005 43,81 <0.1 121,63 183,29 58,27 9,16 21,49 8,16 <0.03
2 3 4 5 7 8 9, 10 11 12 13 14 15 16 17, 18 19, 20,	Electrical Conductivity at 29°C Turbidity Apparent colour Odour Taste Iron (as Fe) Total dissolved solids (TDS) Fluoride (as F) Cyanide (as F) Cyanide (as CN) Chlorides (as CI) Free residual chlorine Total alkalinity (as CaCOs) Total alkalinity (as CaCOs) Calcium (as Ca) Magnesium (as Mg) fiulphate (as SO4) Nitrates (as NOi) Copper (as Cu)	NTU Hazen units 	IS 3025 (Part 14) IS 3025 (Part 10) IS 3025 (Part 10) IS 3025 (Part 4) IS 3025 (Part 5) IS 3025 (Part 8) IS 3025 (Part 2) IS 3025 (Part 16) IS 3025 (Part 27) IS 3025 (Part 28) IS 3025 (Part 28) IS 3025 (Part 24) IS 3025 (Part 24) APELA Method	6.5 to 8.5 - 1 5 Agreeable Agreeable 1.0 500 1.0 0.05 250 Min. 0.2 200 75 30 200 45 0.05 0.1	Limit # No relaxation 5 15 Agreeable Agreeable No relaxation 2000 1.5 No relaxation 1000 1 400 400 400 400 400 400 400 400	513,64 0.7 1 Agrecable 0.14 288 0.21 <0.005 43,81 <0.1 121,63 183,29 58,27 9,16 21,49 8,15 <0.03 <0.05



## **Test Report September 2018**



	Accredited By Quality C Authorised by	ANACOI By Ministr Council of I Food Safe	N LABO	ABET - Environme ndards Authonity of a of Indian Standard	T. LTD. ertified Organi (MoEF), New int Impact Ass	zation, Deihi	REPORT
Hill Se San San	SUED TO: ND ENERGY AND COAL BENIFICATION lage:- Hindadih epat, Bilaspur (C.G.)-495 001, mple Category : Ground Water mple Code : GW-1	(1) LTD.	Your	le Inward No. rt Issue Date Reference ence Date	: 1819Mon-23 : 29.09.2018	t NoALPL/2909 13-GW1 DADIH/BSP/2017	
Sa Qu Sa	nple Location : Near Main Gate mple Registration Date : 24.09.2 antity received : 2 L mple tested as received mpling Date : 22.09.20	)18 T	Analysis Tests re Sample	d by	-	018 w.o. Representative	
Sr. No	Test Parameter		rement	August-Septemb	Requir IS 10 (Drinking Wa	ement as per 1500 : 2012 Her Specifications)	Test Result
21.	Mercury (as Hg)			15	Acceptable Limit	mendment No. 2 Permissible Limit #	rear nesult
22.	Cadmium (as Cd)	mg	the second se	15:3025 (Part 48)	0.001	No relaxation	< 0.0005
23.	Selenium (as Se)	ing tog	the second s	IS 3025 (Part 41) IS : 3025 (Part 56)	0.003	No relaxation	< 0.001
24.	Arsenic (as As)	ing		15 3025 (Part 37)	0.01	No relaxation	< 0.001
25.	Aluminium (as Al)	mg	and the second se	IS 15302	0.03	No relaxation 0.2	< 0.01
26. 17.	Lead (as Pb) Zinc (as Zn)	mg	/1	15 3025 (Part 47)	0.01	No relaxation	< 0.005
18.	Total Chromium (as Cr)	mg	/1	15 3025 (Part 2)	5	15	<0.1
20.	Boron (as B)	mg		15 3025 (Part 2)	0.05	No relaxation	< 0.03
0.	Mineral Oil	mg		IS 3025 (Part 2)	0.5	2.4	<0.1
11.	Phenolic compounds	mg		IS 3025 (Part 39)	0.5	No relaxation	< 0.001
12	(as CaHsOH) Anionic detergents	mg		15 3025 (Part 43)	0.001	0.002	< 0.001
0.	Polynuclear aromatic hydrocarbons	mg		15 13428 (Arunex K)	0.2	1.0	<0.01
-	Total coliform	HB		USEPA 550	0.1	No relaxation	< 0.03
-	statements in success while the success in the succ	Per 10	and the second second	IS 15185	Absent	Absent	Absent
81 81 81 12	(OTES: • Please are watermark. "Original Test Baper ated parameters only. • Test report shall not be repro- voited amount only. • Non-persishable and persishable dees specified otherwise. • flowmainfiels limit in a parvelet to 'ppm'. • 'pgV' is equivalent to 'ppb'. • 'c Is not relevant. REMARKS: Based upon request of the party, so test conducted, indicating that it is fit for drin	sample(s) sous werea of an a 'indicates des imple was to king purpose	I be dispose hereate sound stead for ab swith resp	d off after 30 stays and 15 s new for drinking water. • of instrument/method and ove mendioned parameters ext to tested parameters	days respectively fr MPN indicates e I shall be consider	other the date of innue of sont the date of innue of sont probable number, rd as "absent".  • Result	ie limited to Test Report, • 'mg/t' is for lest no.
	For ANAM Verified by	CON LABOR	ATORIES	PVT. LTD.		ed Signatory	ACONIARS





			:0		TE	ST REPORT
		AND		ane		
		AN	AC ONL	ABS		
			LABORATORIES I			
	ISO	9001:2008, ISO 1400 cognized By Ministry	of Environment & Fore	Certified Orgets (MoEE) N	panization,	
	Accredited By	Quality Council of In	dia by NABET - Environ	ment Impact	Assessment Stu	dies
	Auto	Approved by	y & Standards Authority Bureau of Indian Stand	y of India Und dards (BIS)	er FSS Act	
10110	ED TO:			CONTRACTOR OF A DWG	port NoALPL/2	29092018/348-2
IND	ENERGY AND COAL BENIN	CATION (1) LTD.	Sample Inward No. Report Issue Date	: 1819Mo : 29.09.20	n-233-GW2	
(Ilag	e:- Hindadih at , Bilaspur (C.G.)-495 001.		Your Reference	: HECBIL	HINDADIH/BSP/2	2017-18/02
nanka	le Category : Ground Wate		Reference Date	: 01.01.20	017	
mpl	le Code : GW-2					
ampl	le Location : Near Security	Quarter				
amp	ole Registration Date	: 24.09.2018	Analysis Starting Date	: 24	09.2018	
luan	tity received	:2L	Analysis Completion Dat	100	09.2018	
			Tests required		per w.o.	
	ale tested as received		Sampled by	1.1.1	acon Representati	ive
anp	aling Date	: 22.09.2018		9	Concession and the second	90
			EST RESULTS	1252711		
_	[Repor	t For The Month o	f July-August-Septe	mber-2018	(Qtrly)]	
				Require	ment as per	1
Sr.		Measurement	1.	IS 105	00:2012	
No	Test Parameter	Unit	Test Method	(Drinking Wat Including Ar	er Specificationa) nendment No. 2	Test Result
	Territoria de la competencia de la comp		26	Acceptable	Permissible	
1.	pH value		15 3025 (Part 11)	Limit 6.5 to 8.5	Limit # No relaxation	7.83 at 29°C
2	Electrical Conductivity at 29°C	µя/сяі	15 3025 (Part 14)	4	- SAU TELACACIÓN	482.76
3.	Turbidity	NTU	15 3025 (Part 10)	1	5	0.6
4.	Apparent colour	Hazen units	15 3025 (Part 4)	5	15	1
	Odour Taste	51	15 3025 (Part 5)	Agreeable	Agroeable	Agrevable
5.	Iron (as Fe)	and a	15 3025 (Part 8)	Agneable	Agreeable	Agreeable
5.		mg/l	15 3025 (Part 2)	1.0	No relaxation 2000	0.16
5.	Total dissolved solids (TDS)	mg/L			2000	270
5. 6. 7.	Total dissolved solids (TDS) Fluoride (as F)	mg/l mg/l	15-3025 (Part 16) 15-3025 (Part 60)	1.0	1.6	
5. 6.7. 月.9. 11.	Fluoride (as F) Cyanide (as CN)	and the second se	the second s		1.5 No relaxation	< 0.005
5. 6. 7. 8. 9. 10. 11.	Fluoride (as F) Cyanide (as CN) Chlorides (as Cl)	mg/l	15 3025 (Part 60) 15 3025 (Part 27) 15 3025 (Part 32)	1.0	and the second s	the second se
5. 6. 7. 8. 9. 10. 11. 12.	Fluoride (as F) Cyanide (as CN) Chlorides (as Cl) Free residual chlorine	mg/1 mg/1 mg/1 mg/1	15 3025 (Part 60) 15 3025 (Part 27) 15 3025 (Part 32) 15 3025 (Part 32)	1.0 0.05	No relaxation	< 0.005
5. 6. 7. 8. 9. 10. 11. 12. 13.	Fluoride (as F) Cyanide (as CN) Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs)	mg/1 mg/1 mg/1 mg/1 mg/1	15 3025 (Part 60) 15 3025 (Part 27) 15 3025 (Part 32) 15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 23)	1.0 0.05 250 Min. 0.2 200	No relaxation 1000 1 600	< 0.005 27.49
5. 6. 7. 8. 9. 10. 11. 12.	Fluoride (as F) Cyanide (as CN) Chlorides (as Cl) Free residual chlorine	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 32)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)	1.0 0.05 250 Min. 0.2 200 200	No relaxation 1000 1 600 600	<0.005 27.49 <0.1 116.54 172.17
5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Fluoride (as F) Cyanide (as CN) Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 32)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)           15         3025 (Part 42)	1.0 0.05 250 Mirs. 0.2 200 200 75	No relaxation 1000 1 600 600 200	<0.005 27.49 <0.1 116.54 172.17 53.82
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	Fluoride (as F) Cyanide (as CN) Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Colcium (as Ca)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 32)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)	1.0 0.05 250 Min. 0.2 200 200	No relaxation 1000 1 600 600 200 100	<0.005 27.49 < 0.1 116.54 172.17 53.82 9.16
5. 6. 7. 8. 9. 10. 12. 13. 14. 15. 16. 17. 18.	Fluoride (as F) Cyanide (as CN) Chloriden (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardnesn (as CaCOs) Colcium (as Ca) Magnesium (as Mg) Sulphate (as SOa) Nitrates (as NOs)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 27)           15         3025 (Part 26)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)           15         3025 (Part 42)           15         3025 (Part 40)           15         3025 (Part 40)	1.0 0.05 250 Mirs. 0.2 200 200 75 30	No relaxation 1000 1 600 600 200	<0.005 27.49 <0.1 116.54 172.17 53.82
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Fluocide (as F) Cyanide (as CN) Chloridea (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardnesa (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 32)           15         3025 (Part 32)           15         3025 (Part 25)           15         3025 (Part 21)           15         3025 (Part 21)           15         3025 (Part 21)           15         3025 (Part 42)           15         3025 (Part 42)           15         3025 (Part 24)           APHA Method         15           15         3025 (Part 24)	1.0 0.05 250 Mirc.0.2 200 200 75 30 200	No relaxation 1000 1 600 600 200 100 400	<0.005 27.49 < 0.1 116.54 172.17 53.82 9.16 17.54
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Fluocide (as F) Cyanide (as CN) Chloridea (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu) Manganese (as Mn)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 22)           15         3025 (Part 32)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)           15         3025 (Part 40)           15         3025 (Part 24)           APHA Method	1.0 0.05 250 Mirc 0.2 200 200 75 30 200 45	No relaxation           1000           1           600           600           200           100           400           No relaxation	<0.005 27.49 < 0.1 116.54 172.17 53.82 9.16 17.54 < 2
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Fluocide (as F) Cyanide (as CN) Chloridea (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardnesa (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 22)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)           15         3025 (Part 21)           15         3025 (Part 40)           15         3025 (Part 24)           AFPIA Method         15           15         3025 (Part 2)           15         3025 (Part 2)	1.0 0.05 250 Mirc 0.2 200 200 75 30 200 45 0.05 0.1	No relaxation           1000           1           600           200           100           400           No relaxation           1.5	<0.005 27.49 < 0.1 116.54 172.17 53.82 9.16 17.54 < 2 < 0.03
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Fluocide (as F) Cyanide (as CN) Chloridea (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu) Manganese (as Mn)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 32)           15         3025 (Part 32)           15         3025 (Part 25)           15         3025 (Part 21)           15         3025 (Part 21)           15         3025 (Part 21)           15         3025 (Part 42)           15         3025 (Part 42)           15         3025 (Part 24)           APHA Method         15           15         3025 (Part 24)	1.0 0.05 250 Mirc 0.2 200 200 75 30 200 45 0.05 0.1	No relaxation 1000 1 600 600 200 100 400 No relaxation 1.5 0.3	<0.005 27.49 <0.1 116.54 172.17 33.82 9.16 17.54 <2 <0.03 <0.05
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 10.	Fluoride (as F) Cyanide (as CN) Chlorides (as CI) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Colcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu) Manganese (as Mn) Cates detection limit of the labora Verified by	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	15         3025 (Part 60)           15         3025 (Part 27)           15         3025 (Part 22)           15         3025 (Part 26)           15         3025 (Part 23)           15         3025 (Part 21)           15         3025 (Part 21)           15         3025 (Part 40)           15         3025 (Part 24)           AFPIA Method         15           15         3025 (Part 2)           15         3025 (Part 2)	1.0 0.08 250 Mirc 0.2 200 200 75 30 200 45 0.05 0.1 LTD.,	No relaxation           1000           1           600           600           200           100           400           No relaxation           1.5           0.3	<0.005 27.49 <0.1 116.54 172.17 33.82 9.16 17.54 <2 <0.03 <0.05



## **Test Report September 2018**



	Accredited By Quality Authorised b	ANACON L 08, ISO 14001 By Ministry of Council of India y Food Safety	ABORATORIES PV 2004, OHSAS 18001 C Environment & Forests b by NABET - Environme & Standards Authority of ureau of Indian Standar	ortified Organic (MoEF), New ent Impact Asse (India Under F	tation, Deihi	REPORT
-				Report	NoALPL/2909	2018/348 2
HII VII Se	SUED TO: ND ENERGY AND COAL BENIFICATION lage: Hindadh legat, Bilaspur (C.G.)-495 001 mple Category : Ground Water	N (1) LTD.	Sample Inward No. Report Issue Date Your Reference Reference Date	: 1819Mpn-23 : 29.09.2018	the Restory of the Owner water of the Party	
Sar	mple Code : GW-2 mple Location : Near Security Quarter					
Sa Qu Sa	mple Registration Date : 24.09.3 antity received : 2 L mple tested as received mpling Date : 22.09.3	Ar Te Sa	nalysis Starting Date nalysis Completion Date ists required ampled by	: 24.09.2 : 28.09.2 : As perv : Anacon	018	
Sr.	IReport For TI	TES 10 Month of J	T RESULTS Iuly-August-Septem	the second s	Iy)] ment as per	
		100000000000000000000000000000000000000	2011 CO	15 10	500:2012	
	Test Parameter	Measurem Unit	Test Method	15 10 (Drinking Wa Including A Acceptable	600 : 2012 ter Specifications) mendment No. 2 Pennissible	Test Result
No 21.	Mercury (as Hg)		Test Method	15 10 (Drinking Wa Including A Acceptable Limit	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit #	
No 21. 22.	Mercury (as Hg) Cadmium (as Cd)	Unit mg/l mg/l	15 : 3025 (Part 48) 15 : 3025 (Part 41)	15 10 (Drinking Wa Including A Acceptable	600 : 2012 ter Specifications) mendment No. 2 Pennissible	Test Result
No 11. 22.	Mercury (as Hg)	Unit mg/l mg/l mg/l	15 : 3025 (Part 48) 15 : 3025 (Part 48) 15 : 3025 (Part 41) 15 : 3025 (Part 56)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.0]	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation	< 0.0005
No 21. 22. 23.	Mercury (as Hg) Cadmium (as Cd) Selenium (as Sc)	Unit mg/l mg/l mg/l mg/l	Test Method B : 3025 (Part 48) IS 3025 (Part 41) IS : 3025 (Part 56) IS 3025 (Part 37)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.0] 0.01	600 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation	<0.000 <0.001 <0.001 <0.001 <0.01
No 21. 22. 23. 16.	Mercury (as Hg) Cadmium (as Cd) Sclenium (as Se) Amenic (as As) Abminium (as Al) Lead (as Pb)	Unit mg/l mg/l mg/l	15 : 3025 (Part 48) 15 : 3025 (Part 48) 15 : 3025 (Part 41) 15 : 3025 (Part 56)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.01 0.01 0.03	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation 0.2	<0.005 <0.001 <0.001 <0.001 <0.01 <0.005
No 21. 22. 23. 19. 19.	Mercury (as Hg) Cadmium (as Cd) Selenium (as Se) Ansenic (as As) Aluminium (as Al) Lead (as Pb) Zinc (as Zn)	Unit mg/l mg/l mg/l mg/l mg/l mg/l	Test Method B: 3025 (Part 48) IS: 3025 (Part 41) IS: 3025 (Part 41) IS: 3025 (Part 57) IS: 3025 (Part 47) IS: 3025 (Part 47) IS: 3025 (Part 2)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.0] 0.01	600 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation	<0.000 <0.001 <0.001 <0.001 <0.01
No 21. 22. 23. 34. 15. 17. 19.	Mercury (as Hg) Cadmium (as Cd) Selenium (as Sc) Ansminium (as Al) Lead (as Pb) Zinc (as Za) Total Cheromium (as Cr) Boren (as B)	Unit mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Test Method B: 3025 (Pari 48) IS: 3025 (Pari 44) IS: 3025 (Pari 56) IS: 3025 (Pari 57) IS: 3025 (Pari 47) IS: 3025 (Pari 2) IS: 3025 (Pari 2)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.01 0.01 0.03 0.01 5 0.03	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation 0.2 No relaxation 15 No relaxation	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005
No 21. 22. 23. 24. 25. 26. 27. 28. 29.	Mercury (as Hg) Cadmium (as Cd) Selenium (as Sc) Amenic (as Aa) Aluminium (as Al) Lead (as Pb) Zinc (as Zn) Total Chromium (as Cf) Boron (as B) Mineral Oil	Unit mg/l mg/l mg/l mg/l mg/l mg/l	Test Method B: 3025 (Part 48) IS: 3025 (Part 41) IS: 3025 (Part 41) IS: 3025 (Part 57) IS: 3025 (Part 47) IS: 3025 (Part 47) IS: 3025 (Part 2)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.02 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation 0.2 No relaxation 15 No relaxation 2.4	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005 <0.005 <0.1 <0.03 <0.1
No 21. 22. 23. 16. 17. 19. 10. 11.	Mercury (as Hg) Cadmium (as Cd) Sclenium (as Se) Arsenic (as As) Abminium (as Al) Lead (as Pb) Zmc (as Zn) Total Chromium (as Cr) Borce (as B) Mineral Oil Pherolic compounds (as CellsOH)	Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Test Method B : 3025 (Part 48) IS : 3025 (Part 44) IS : 3025 (Part 56) IS : 3025 (Part 57) IS : 3025 (Part 27) IS : 3025 (Part 47) IS : 3025 (Part 47) IS : 3025 (Part 2) IS : 3025 (Part 2)	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.01 0.01 0.03 0.01 5 0.05 0.05	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation 0.2 No relaxation 15 No relaxation	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005 <0.1 <0.03
No 21. 22. 23. 24. 25. 26. 27. 28. 29. 20. 21. 27. 28. 29. 29. 29. 29. 29. 29. 29. 29. 29. 29	Mercury (as Hg) Cadmium (as Cd) Seleriaum (as Se) Amenic (as As) Abuminium (as Al) Load (as Pb) Zinc (as Zh) Total Chromium (as Cr) Boron (as B) Mineral Oil Phenolic compounds (as Cd+OH) Anionic detergents	Unit mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Test Method B: 3025 (Part 48) IS: 3025 (Part 41) IS: 3025 (Part 56) IS: 3025 (Part 57) IS: 3025 (Part 27) IS: 3025 (Part 2) IS: 3025 (Part	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.01 0.01 0.01 0.03 0.01 5 0.05 0.5 0.5	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation 0.2 No relaxation 15 No relaxation 2.4 No relaxation	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005 <0.1 <0.03 <0.1 <0.003 <0.1 <0.000 <0.01 <0.000 <0.001 <0.0001 <0.0001
No 21. 22. 23. 24. 25. 27. 28. 29. 29. 29. 29. 29. 29. 29. 29. 29. 29	Mercury (as Hg) Cadmium (as Cd) Sclenium (as Se) Arsenic (as As) Abminium (as Al) Lead (as Pb) Zmc (as Zn) Total Chromium (as Cr) Borce (as B) Mineral Oil Pherolic compounds (as CaHoHj Anionic detergents Polynucleur aromatic hydrocarbions	Unit mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Test Method B: 3025 (Part 48) IS 3025 (Part 41) IS 3025 (Part 56) IS 3025 (Part 56) IS 3025 (Part 37) IS 3025 (Part 37) IS 3025 (Part 2) IS 3025 (Part 2) IS 3025 (Part 2) IS 3025 (Part 39) IS 3025 (Part 39) IS 3025 (Part 43) IS 13428 (Annex K) USEPA 550	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.03 0.01 0.01 0.03 0.01 5 0.05 0.5 0.5 0.5 0.5	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation 0.2 No relaxation 15 No relaxation 2.4 No relaxation 0.002	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005 <0.1 <0.005 <0.1 <0.03 <0.1 <0.001
No 21. 22. 23. 24. 25. 26. 27. 28. 29. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 20. 21. 22. 23. 24. 25. 26. 21. 27. 29. 20. 21. 20. 21. 20. 21. 21. 21. 21. 21. 21. 21. 21. 21. 21	Mercury (as Hg) Cadmium (as Cd) Selenium (as Sc) Amenic (as Aa) Ahaminium (as Al) Lead (as Pb) Zinc (as Zn) Total Chromium (as Cf) Boron (as B) Mineral Oil Phenolic compounds (as Cd+OH) Anionic detergents Polymechar aromatic hydrocarbons Total colliform OTES: + Phase are reatomark. "Original Test Dap net d parameters only. + Test report shall not to repr revision amount only. + Nan-peritshall not to repr	Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Test Method 15: 3025 (Part 48) 15: 3025 (Part 41) 15: 3025 (Part 56) 15: 3025 (Part 56) 15: 3025 (Part 77) 15: 3025 (Part 77) 15: 3025 (Part 72) 15: 3025 (Part 2) 15: 3025 (Part 2) 15: 3025 (Part 2) 15: 3025 (Part 2) 15: 3025 (Part 39) 15: 3025 (Part 39) 15: 3025 (Part 39) 15: 3025 (Part 39) 15: 3025 (Part 43) 15: 15428 (Annex K) USEPA 550 15: 15185 aftenticity of the report. • Result software written approval disposed cell after 30 days and 13	15 10 (Drinking Wa Including A Acceptable Limit 0.001 0.003 0.01 0.01 0.03 0.01 5 0.05 0.5 0.5 0.5 0.5 0.5 0.5 0.1 4 0.001 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation No relaxation 0.2 No relaxation 15 No relaxation 2.4 No relaxation 2.4 No relaxation 0.002 1.0 No relaxation 0.002 1.0 No relaxation 4.002 0.002	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005 <0.1 <0.005 <0.1 <0.003 <0.01 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.002 <0.001 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002
No 21. 22. 23. 34. 15. 16. 17. 28. 19. 10. 11. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	Mercury (as Hg) Cadmium (as Cd) Selenium (as Se) Amenic (as As) Amenic (as As) Amenimum (as Al) Lead (as Pb) Zinc (as Zs) Total Chromium (as Cr) Boron (as B) Mineral OB Phenolic compounds (as CdHO(H) Antionic detergents Nolymacheur anomatic hydrocarbons Total coliform NOTES • Places are varies to pert shall not be repr revised parawaters on the strengent shall not be repr motioned anomatic my of the top per trained prevention anomatic hydrocarbons Total coliform NOTES • Places are varies to the report shall not be repr revised parawaters on the * Termisable limit in a privalent of perf. • "gaf" is equivalent to "pb". • To not relevant. REMARKS: Based upon request of the party, test conducted, indicating that it is fit for dr	Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Test Method B: 3025 (Part 48) IS: 3025 (Part 41) IS: 3025 (Part 56) IS: 3025 (Part 57) IS: 3025 (Part 27) IS: 3025 (Part 2) IS: 3025 (Part 39) IS: 3025 (Part 39) IS: 3025 (Part 39) IS: 3025 (Part 43) IS: 13428 (Ateses K) USEPA 550 IS: 15185 otherhicity of the report. • Read sithoost prior written approval 16 disposed rol written approv	15 10 (Drinking Wat Including A Acceptable Limit 0.001 0.003 0.01 0.01 0.03 0.01 0.01 0.	500 : 2012 ter Specifications) mendment No. 2 Permissible Limit # No relaxation No relaxation 0.2 No relaxation 0.2 No relaxation 2.4 No relaxation 2.4 No relaxation 0.002 1.0 No relaxation 4.002 1.0 No relaxation 4.0 No relaxation 4.002 1.0 No relaxation 1.0 No r	<0.0005 <0.001 <0.001 <0.005 <0.005 <0.005 <0.1 <0.005 <0.1 <0.003 <0.01 <0.001 <0.001 <0.001 <0.001 <0.001 <0.003 Absent splitable is is finding to rest Report. • mg/' is t for test no.



# **Test Report**

# Oct-Nov-Dec 2018







[Report For The Month of October-November-December-2018 (Qtrly)]

#### AIR MONITORING ANALYSIS REPORT

Report No .:-	AN/AA/HECBIL/2018-19/648-1	Report Date:-	31/12/2018
Name of Client & Address:-	M/s HIND ENERGY AND Village:- Hindadih, S	O COAL BENIFICATIO	
Type of Work :-	Ambient Air Monitoring (December-2018)	Sample Ref.No. :-	1819/Mon-415-1
Sample Drawn By :	Anacon Representative	Sample Received Date	20.12.2018
Date of Analysis :-	21.12.2018 To 22.12.2018	Testing Period	01 Day

					24 nrs Samp	ung)
SL. No.	Sampling Location	Sampling Date	PM10 µg/m3	PM2.5 µg/m <sup>3</sup>	SO2 µg/m <sup>3</sup>	NO: µg/m <sup>3</sup>
1.	Near Steel Yard	15.12.2018	58.3	21.9	9.4	26.4
2.	Near Rotary Breaker	15.12.2018	61.9	24.7	8.7	23.6
3.	Near Dispatch	15.12.2018	53.8	16.4	6.4	17.2
4.	Near Barrack	15.12.2018	51.3	17.2	6.8	18.3
CPCB Sta	ndards	1000	100	60	80	80

SL No.	Sampling Location	Sampling Date	Pb µg/m³	As ng/m <sup>3</sup>	Ni ng/m <sup>3</sup>	Cd µg/m <sup>3</sup>	Cr µg/m <sup>3</sup>
1.	Near Steel Yard	15.12.2018	0.032	ND	0.049	ND	ND
2.	Near Rotary Breaker	15.12.2018	0.024	ND	0.031	ND	ND
3.	Near Dispatch	15.12.2018	0.028	ND	0.037	ND	ND
4.	Near Barrack	15.12.2018	0.017	ND	0.029	ND	ND
CPCB S	Standards		1.0 (24 hrs)	6.0 (snnual)	20.0		

Thanks for utilizing our services.

Chemist:-SNU

Mawap Authorized Signatory

Head Offices: 60, Baljunshin Nagar, Negour: 446033 Inc.a. Ph. No. (0/12) 2242077. 9372404824, Ernal: regetaneous in Lab: FP 34-35, Food Park, Five Star Estate, MIDC Buthon, Nagar, -641122, Mot. No. 5173287475, Email: Is5ngar, and contra Support Helplines: Technical (9773287475), Accounts Ofensor (022590001), 072700079), Administration (9372890018, 927504760); Email: support@aneous.in. You may were well us it www.associatoriatoria.com Branches : Maharashtra | Chhattisgarh | Madhya Pradesh | Jharkhand | Delhi







[Report For The Month of October-November-December-2018 (Qtrly)]

Fugitive Dust Monitorin	g An	alysis	Report
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Report No .:-	AN/FE/HECBIL/2018-19/648	-2 Report Date:-	31/12/2018
Name of Client & Address:-	M/s HIND ENERGY AN Village:- Hindadih,	ND COAL BENIFICA Seepat , Bilaspur (C.G	ΠΟΝ (1) LTD. .)-495 001.
Turns of West	Fugitive Dust Monitoring		
Type of Work :-	(December-2018)	Sample Ref.No. :-	1819/Mon-414-2
Sample Drawn By :		Sample Ref.No. :- Sample Received Date	1819/Mon-414-2 20.12.2018

SL. NO.	Sampling Location	Sampling Date	SPM µg/m³	SO2 µg/m³	NOx µg /m³
1	Near Weight Bridge	16.12.2018	359	12.6	27.4
2	Near Environment Lab	16.12.2018	216	9.3	17.2
	CPCB Standards		-	-	

Thanks for utilizing our services

Stawp Chemist:-Sn Authorized Signatory Head Office: 60, Baljotobbu Nagar, Nagpur - 440033 India, Ph. No. (0712) 2242077, 9372404924, Email: ngp@inacon.is Lab: FP 34-35, Food Park, Five Bar Estata, MIDC Buttbur, Nagpur - 441122, Mob. No. 9373267475, Email: Labdgp@anacon.is Support Headlines: Technical (9372327475), Accounts Division (9328696008), 937396775, Administration (937296078, 9975947606), Email: support@anacon.is, You may alias valid us at www.anacon/abbratines.com Branches : Maharashtra | Chhattisgarh | Madhya Pradesh | Jharkhand | Delhi







[Report For The Month of October-November-December-2018 (Qtrly)]

Report No	t No.:- AN/FE/HECBIL/2018-19/648-3 Report Date:-				oort Date:-	31/1	2/2018
Name of C Address:-	lient &		D ENERGY AN ge:- Hindadih, S				
Type of We	ork :-	Fugitive Dus (Decemi	t Monitoring ber-2018)	Sample	Ref.No. :-	1819/M	lon-415-3
Sample D	rawn By :	Anacon Rej	presentative	Sample	Received Date	20.1	2.2018
Date of A	nalysis :-	21.12.2018 T	o 22.12.2018	Testing	Period	01	Day
SL. NO.	Sampling	Location	Sampling	Date	SPM µg/m³	SO2 µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>

### **Fugitive Dust Monitoring Analysis Report**

			µg/m³	µg/m³	µg /m³
1	Near Vehicles Parking Area	16.12.2018	274	12.8	27.4
	CPCB Standards		-	-	

Naw Chemist - Sny. Authorized Signatory NMACOME IN Head Office 50. Bajarnithu Nagar, Nagar, Sagar - 44003 India, Ph. Nu. (0712) 2242077, 6372464924, Email: rga@anacos.in Lab : PP 34-35, Food Part, Frie Bar Estata, MIDC Butbori, Nagaur, 441122, Mois Na. 6372267475, Email: Inbrag@anaco Support Helplices, Technical (377287475), Accounts Director (3328963091, 8372963079), Administration (377296477 0973647626), Email: support@pooco.in. You may also wist as at www.amecontaborations.com Branches : Maharashtra | Chhattisgarh | Modhyo Pradesh | Jharkhand | Defhi





					TE	ST REPORT
		ANA	CONL	ARS		
			ABORATORIES			
	Recogniz Accredited By Qualit	ed By Ministry of y Council of India by Food Safety	2004, OHSAS 180 Environment & For	on Certified Or rests (MoEF). conment Impactity of India Un	New Dolhi Assessment Stu	dies
ISSUE	DIO				Report No -Al	PL/31122018/649
HIND E Village Seepat	ENERGY AND COAL BENIFIC. - Hindadih . Bilaspur (C.G.)-495 001.	ATION (1) LTD.	Sample Inward M Report Issue Dat Your Reference Reference Date	te : 31.1 : HE(	9Mon-415-GW1 2.2018 3BIL/HINDADIH/8:	
pampie	Category : Ground Water Code : GW-1 Location : Near Main Gate			: 01.0	11.2017	
Sample	Registration Date : 2	0.12.2018	Analysis Starting Da	ale	20.40.0010	
Quantit	y received : 2	L	Analysis Completion	n Date :	20.12.2018 25.12.2018	
Sample	tested as received		Testa required	:	As per w.o.	
Samplin	In Date	12.2018	Sampled by	1	Anacon Represen	Itative
		The state of the s		-		
	[Report For T	he Month of C	EST RESULTS			
	- PARAMIN	ne month or c	ctober-Novembe	er-December	-2018 (Otrly)]	
				Requir	tment as per 600 : 2012	
Sr. No	9 Test Parameter	Measurement Unit	Test Method	Orinking Wa	mendment No. 2 Permissible	Test Results
1.	pH value		IS 3025 (Part 11)	Limit	Limit #	
2.	Electrical Conductivity at 25°C	µs/cm	15 3025 (Part 14)	6.5 to 8.5	No relaxation	7.03 at 25°C
4.	Turbidity Apparent colour	NTU	IS 3025 (Part 10)	1	5	516
5.	Odour	Hazen units	15 3025 (Part 4)	5	15	0.7
6.	Taste		15 3025 (Part 5)	Agreeable	Agroeable	Agreeable
7.	Iron (as Fe)	mg/l	15 3025 (Part 8) 15 3025 (Part 2)	Agrevable 1.0	Agreeable	Agreeable
8.	Total dissolved solida (TDS)	mg/1	15 3025 (Part 16)	1.0	No relaxation	0.21
10.	Fluoride (as F) Cyanide (as CN)	mg/1	15 3025 (Part 60)	1.0	2000	289
11.	Chlorides (as Cl)	mg/1	15 3025 (Part 27)	0.05	No relaxation	0.16
12	Free residual chlorine	mg/1	IS 3025 (Part 32)	250	1000	31.54
13.	Total alkalinity (as CaCOs)	mg/l mg/l	15 3025 (Part 26)	Min. 0.2	1	< 0.1
14.	Total hardness (as CaCOs)	mg/1	15 3025 (Part 23) 15 3025 (Part 21)	200	600	118.59
15.	Calcium (as Ca)	mg/1	15 3025 (Part 40)	200	600	191.05
	Magnesium (as Mg) Sulphate (as SO4)	mg/1	IS 3025 (Part 46)	30	200	57,38
17.	Nitrates (as NOs)	mg/l	15 3025 (Part 24)	200	400	26.41
17, 18,	Copper (as Cu)	mg/1 mg/1	APHA Method	45	No relaxation	7.28
-	Mangamese (as Mri)	mg/1	15 3025 (Part 2)	0.05	1.5	< 0.03
18. 19. 20.		I NAME AND ADDRESS OF TAXABLE	15 3025 (Part 2)	0.1	0.3	< 0.05
18, 19, 20, NOTE	St . Please are watermark school at	Test Report" to cooling		manufacture and data in the	sall be referred to been	nd sample(s) and
18, 19, 20, NOTE applics Anacor the date probable conside	S: ● Please see watermark "Original ble to isoted parameters only, ● Test r Labe is limited to involved anneuro only of lasse of Test Report, unless specifies to mamber. • 'mgd' is equivalent to 'p red as 'absent'. • Renall for test no. 12	· · · · · · · · · · · · · · · · · · ·	a periabable sample(s) shall able limit in absence of an valent to 'ppb', • '< indi-	I be disposed off all alternate source is rates detection lian	A husban of Mulacon Par	tw. # Liability of





			<b>``</b>		TEST	REPORT
		ANAC	NLA	DC		
			- CODF			
	ISO 9001:2008	ISO 14001 2004	RATORIES PVT OHSAS 18001 Cer	Hillad Demon	ization	
	Recognized B Accredited By Quality Co	sy Ministry of Envir	onment & Forests /	MOFF) New	Dalhi	
	Authorised by E	ood Safety & Stan	dards Authority of I	ndia Under I	sessment Studies FSS Act	
_	Ap	oproved by Bureau	of Indian Standard	s (BIS)		
ISS	UED TO:	No. of Concession, name	And in case of the local division of the loc	Re	port NoALPL/3	1122018/640
Villa	ID ENERGY AND COAL BENIFICATIO	N(I)LTD. Ret	nple Inward No. port Issue Date	: 1819Mo	n-415-GW1	1122010/049-
See	pat, Bilaspur (C.G.)-495 001	You	Ir Referance	: 31.12.20	HINDADIH/BSP/20	
Sam	ple Category : Ground Water	Ken	erence Date	: 01.01.20	17	017-18/02
Sam	ple Code : GW-1 ple Location : Near Main Gate					
	nie Besistertie a	2044				
Qua	ntity received :20.12.		sis Starting Date	: 20.1	2.2018	-
			sis Completion Date		2.2018	
Sam	ple tested as received pling Date	Samp	required		er w.o.	
Gam	pang Date : 15,12.2	018	ieu by	÷ Ana	con Representative	6 - C - C
-		the state of the second se		-	-	
				Rev.	elrement as per	
Sr. N	o Test Parameter	Measurement		15		
	Mercury (as Hg)	Unit	Test Method	Including	Water Specifications) Amendment No. 2	Test Result
21				Acceptable	Permissible	
22	Cadmium (as Cd)	mg/l	15: 3025 (Part 48)	Limit 0.001	Limit # No relaxation	
23.	Selenium (as Se)	mg/l mg/l	15 3025 (Part 41)	0.003	No relaxation	< 0.0005
25.	Arsenic (as As) Aluminium (as Al)	mg/l	15 : 3025 (Part 56) 15 3025 (Part 37)	0.01	No relaxation	< 0.001
26.	Lead (as Pb)	ligm mg/l	15 15302	0.03	No relaxation 0.2	< 0.01
27.	Zinc (as Zn) Total Chromium (as Cr)	mg/1	15 3025 (Part 47) 15 3025 (Part 2)	0.01	No relaxation	< 0.01
29.	Boron (as B)	mg/1	15 3025 (Part 2)	5 0.05	15	< 0.1
30.	Mineral Oil	mg/l	15 3025 (Part 2)	0.5	No relaxation	< 0.03
3L	Phenolic compounds (as CdHoOH)	mg/I	15 3025 (Part 39)	0.5	No relaxation	<0.1 <0.001
32.	Anionic detergents	mg/1	15 3025 (Part 43)	0.001	0.002	< 0.001
83.	Polynuclear aromatic hydrocarbona	mg / 1	15 13428 (Annex K)	0.2	1.0	<0.01
34.	Total coliform	Per 100 ml	USEPA 550	0.1	No relaxation	c003
NOT	ES:      Plenne see watermark "Original Test Report"	THE OWNER WHEN THE PARTY OF THE	15 15185	Absent	Absent	and the second se
nuoio	E5:	used except in full without	ity of this report Results It prior written approval of	shall be referred	to tested sample(s) and	applicable to
2.18 m	Lent to 'pppn', @ 'pg3' is equivalent to 'ppir', @ '< of relevant.	indicates detection limit	of instrumentimethod and	shall be conside	most probable number	• 'mg/9' is
P-6201	ARAS: Based serves measured of a				Press	If for hest mo,
bits	IARKS: Based upon request of the party, san st conducted, indicating that it is fit for drink	ing purpose with more	we mentioned parameter	ers only, sampl	e complies with 15-10	500-2012 6-
				6		and the second
V	ferified by	ON LABORATORIES I	WT. LTD.			
R	haky			Authori	zed Signatory	
	shani Thakur			12	Gawa	
10	Themist)				) S.D. Garway	Same P
		1012		(Din	ctor-Labs)	AND WALLES
-	ffice : 60, Bajiprathu Nagar Nagpur - 6400331					





					TE	ST REPORT	
		ANA	CONL	ABS			
			ABORATORIES				
	Accredited By Qual	2008, ISO 14001 zed By Ministry o ily Council of Indi d by Food Safety	2004, OHSAS 180 Environment & Fo	01 Certified O rests (MoEF), onment Impac ity of India Un	rganization. New Delhi LAssessment Sh	idies	
SSUE	D TO:				Report No .41	PL/31122018/649-	
IND I	ENERGY AND COAL BENIFI	CATION (1) LTD.	Sample Inward N Report Issue Dat	to : 31.	9Mon-415-GW2 12.2018		
ample	t, Bilaspur (C.G.)-495 001. Category : Ground Water	The state of the second	Your Reference Reference Date	: HE : 01.0	CBIL/HINDADIH/B 01.2017	SP/2017-18/02	
ampie	CODe + C14/-9						
amole	Location : Near Security Q	NAMES OF TAXABLE PARTY.					
luantit	V received	20.12.2018	Analysis Starting Da	ate :	20.12.2018		
		21	Analysis Completion	n Date :	25.12.2018 As per w.o.		
ample	tested as received		Tests required Sampled by				
mpa	N Date : 1	5.12.2018		:	Anacon Represer	itative	
		Т	EST RESULTS	-	-		
-	Likeport For	the Month of O	ctober-Novembe	r-December	~2018 (Ot-1-)1		
				Requir	ement as ner		
St. No	D Test Parameter	Measurement	Test Method	15 10	1900 : 2012 Her Specifications)		
	and the first second	Unit	I cat Method	Including A	mendment No. 2	Test Results	
1,	pH value			Acceptable	Permissible Limit #		
2	Electrical Conductivity at 25°C	jus/cm	IS 3025 (Part 11)	651085	No relaxation	7.30 at 25%	
3	Turbidity	NTU	15 3025 (Part 14) 15 3025 (Part 10)			459	
4.	Apparent colour	Hazen units	15 3025 (Part 4)	1	5	0.4	
6	Odour Taste	100	15 3025 (Part 5)	5	15	1	
7.	Iron (as Fe)		15 3025 (Part 8)	Agreeable	Agreeable	Agreeable	
	Total dissolved solids (TDS)	ngn	15 3025 (Part 2)	1.0	Agreeable	Agrovable	
8.	Fluoride (as F)	mg/l	IS 3025 (Part 16)	500	No relaxation 2000	0.21	
8. 9.	Cyanide (as CN)	ing/1	15 3025 (Part 60)	1.0	1.5	257	
		mg/1	15 3025 (Part 27)	0.05	No relaxation	0.16	
9,	Chlorides (as Cl)	and the second se				and the second se	
9, 10, 11, 12,	Chlorides (as Cl) Free residual chlorine	mg / 1	15 3025 (Part 32)	250	1000	33.54	
9, 10, 11, 12, 13,	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOi)	mg/1 mg/1	15 3025 (Part 32) 15 3025 (Part 26)	250 Min, 0.2		31.54	
9, 10, 11, 12, 13, 14,	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOi) Total hardness (as CaCOi)	mg/1 mg/1 mg/1	15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 23)	Min, 0.2 200	1000	< 0.1	
9, 10, 11, 12, 13, 14, 15,	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca)	mg/1 mg/1 mg/1 mg/1	15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 23) 15 3025 (Part 21)	Min. 0.2 200 200	1000		
9, 10, 11, 12, 13, 14, 15, 16,	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg)	mg/1 mg/1 mg/1	15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 23) 15 3025 (Part 23) 15 3025 (Part 21) 15 3025 (Part 40)	Min. 0.2 200 200 75	1000 1 600 600 200	<0.1 118.53	
9, 10, 11, 12, 13, 14, 15, 16, 17,	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOi) Total hardness (as CaCOi) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOi)	mg/1 mg/1 mg/1 mg/1 mg/1	15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 26) 15 3025 (Part 23) 15 3025 (Part 21) 15 3025 (Part 40) 15 3025 (Part 46)	Min. 0.2 200 200 75 30	1000 1 600 200 100	<0.1 118.53 156.07	
9, 10, 11, 12, 13, 14, 15, 16, 17, 18,	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs)	mg/l mg/l mg/l mg/l mg/l mg/l	15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 23) 15 3025 (Part 23) 15 3025 (Part 21) 15 3025 (Part 40)	Min. 0.2 200 200 75 30 200	1000 1 600 200 100 400	<0.1 118.53 156.07 47.38 9.16 27.43	
9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 1	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	IS 3025 (Part 32) IS 3025 (Part 26) IS 3025 (Part 26) IS 3025 (Part 23) IS 3025 (Part 21) IS 3025 (Part 40) IS 3025 (Part 40) IS 3025 (Part 24) APHA Method IS 3025 (Part 2)	Min. 0.2 200 200 75 30	1000 1 600 200 100 400 No relaxation	<0.1 118.53 156.07 47.38 9.16 27.43 9.16	
9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 19, 19, 11, 19, 11, 11, 12, 13, 14, 15, 11, 12, 13, 14, 11, 12, 13, 14, 11, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NOs) Copper (as Cu) Manganese (as Mn)	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	IS 3025 (Part 32) IS 3025 (Part 26) IS 3025 (Part 23) IS 3025 (Part 23) IS 3025 (Part 21) IS 3025 (Part 40) IS 3025 (Part 40) IS 3025 (Part 24) APHA Method IS 3025 (Part 2)	Min, 0.2 200 25 30 200 45 0.05	1000 1 600 600 200 100 400 No relaxation 1.5	<0.1 118.53 156.07 47.38 9.16 27.43 9.16 27.43 9.16 <0.00	
9, 10, 11, 12, 13, 14, 15, 16, 16, 17, 18, 19, 10, 11, 19, 10, 11, 19, 10, 11, 19, 10, 11, 19, 10, 11, 10, 10, 10, 10, 10, 10, 10, 10	Chlorides (as Cl) Free residual chlorine Total alkalinity (as CaCOs) Total hardness (as CaCOs) Calcium (as Ca) Magnesium (as Mg) Sulphate (as SOs) Nitrates (as NCs) Copper (as Cu) Marganese (as Mn) St. • Please see waterwark 'Original de to tessed parameters only. • Test Late is limited to invision only. • Test Late is limited to invision pochts amount on of issue of Test Report, unless specific r number. • 'mgt' is equivalent to residuary .• Result for test no. 12	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	15 3025 (Part 32) 15 3025 (Part 26) 15 3025 (Part 23) 15 3025 (Part 23) 15 3025 (Part 23) 15 3025 (Part 40) 15 3025 (Part 40) 15 3025 (Part 40) 15 3025 (Part 24) APHA Method 15 3025 (Part 2) 15 3025 (Part 2) 15 3025 (Part 2) 15 3025 (Part 2) 16 authenticity of this n fue authenticity of this n	Min. 0.2 200 200 75 30 200 45 0.05 0.1 out priors written a brians written	1000 1 600 600 200 100 400 No relaxation 1.5 0.3 will be referred to teste pproval of Anacon Lab	<0.1 118.53 156.07 47.38 9.16 27.43 9.16 27.43 9.16 <0.03 <0.05 5 semploid and	

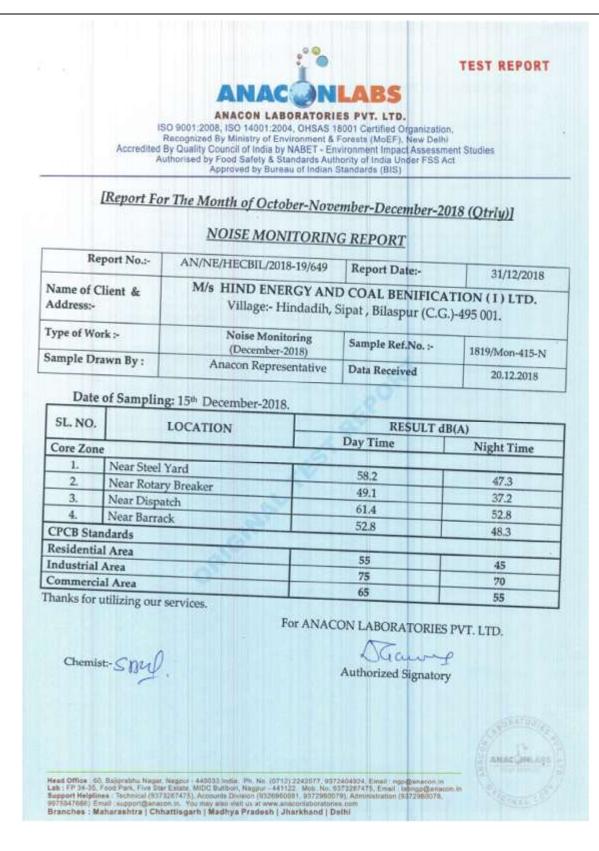




						TEST	REPORT
			NAC	<b>NLA</b>	RS		
				RATORIES PVT	A DEPENDING INC.		
	Accredited By Qu	nized By Mir ality Council red by Food	of India by N/ Safety & Stan	OHSAS 18001 Cen oriment & Forests (1 ABET - Environmen idards Authority of Ir of Indian Standards	MoEF), New C t Impact Asse ndia Under FS	elhi ssment Studies	
ISSU	JED TO:					ort NoALPL/3	122018/640
Seep	D ENERGY AND COAL BENII pe:- Hindadih pat, Bilaspur (C.G.)-495 001.		You	nple Inward No. port Issue Date ar Reference	: 1819Mon- : 31,12,201	415-GW2	and the second se
samp	le Category : Ground Wate le Code : GW-2 le Location : Near Security		Nor	erence Date	: 01.01.201	7	11-10/02
Samp	ole Registration Date	: 20.12.2018	Analu	nia Cando - D	-		
Quan	tity received	:2L	Permy	sis Starting Date sis Completion Date		2018	
Samo	le tested as received		Tests	required	: 25.12 : As pe		
Samp	Ann Date	15.12.2018	Samp	led by		n Representative	
			TEST	RESULTS			-
-	[Report For	The Mont	th of Octobe	resours	ember-2018	(Otrly)]	
	TRUES IN THE				Regula	ement as per	
Sr. No	Test Parameter		Measurement Unit	Test Method	15 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 2		Test Result
21.	Mercury (as Hg)		mg/l	10	Limit	Permissible Limit s	
22.	Cadmium (as Cd) Selenium (as Se)		mg/l	15:3025 (Part 48) 15:3025 (Part 41)	0.003	No relaxation	< 0.0005
24.	Arsenic (as As)		mg/l	15 : 3025 (Part 56)	0.008	No relaxation No relaxation	< 0.001
25.	Aluminium (as Al)		mg/l	15 3025 (Part 37)	0.01	No relacation	< 0.001
26.	Lead (as Pb)		mg/l mg/l	IS 15302 IS 3025 (Part 47)	0.03	0.2	< 0.01
28.	Zinc (as Zn) Total Chromium (as Cr)		mg/1	15 3025 (Part 47)	0.01	No relaxation	< 0.001
29.	Boron (as B)		mg/1	15 3025 (Part 2)	0.05	15 No relaxation	< 0.1
30.	Mineral Oil		mg/l	15 3025 (Part 2)	0.5	2.4	< 0.03
31.	Phenolic compounds		mg/1	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
32.	(as CsHsOH) Anionic detergents	1000	mg/l	15 3025 (Part 43)	0.001	0.002	<0.001
33.	Polynuclear aromatic hydrocarbo	240	mg /1	IS 13428 (Annex K)	0.2	1.0	
34.	Total coliform	00	Pg4	USEPA 550	0.1	No relaxation	< 0.01
NOTE	S . Berning	-	Per 100 ml	15 15185	Absent	Absent	41
exted p	S:	t be reproduced e	ntirm the authentic scopt in full without	ity of this report Results	shall be referred a	o tested sample(a) and	applicable to
anless Iopainað 17 is no	specified otherwise. • #Permissible I ent to 'ppen'. • 'ug/t' is equivalent to '	imit in absence o ppb'. • '< indica	(b) shall be dopose of an alternate souther tes detection limit	ed off after 30 days and 15 c aree for drinking water.	fays respectively fr MPN indicates m	om the date of insue of out probable number	Test Report
REM	ARKS: Based upon request of the t conducted, indicating that it is fit				ATTACK OF SCHOOL ST	ed as 'absent'. • Resu complies with IS:10	t for test ma. 1500:2012, for
			ABORATORIES				
-R	traken				2.1	ed Signatory	
As. Ros	shara Thakur				DC	ant	a Y
(C	hemist)					S.D. Garway	NAC HULLES











	Recognized Accredited By Quality ( Authorised by	ANACON LA 8, ISO 14001 2 By Ministry of I Council of India Food Safety &	BORATORIES PV 2004, OHSAS 18001 Ce Environment & Forests by NABET - Environme Standards Authority of reau of Indian Standard	BS r. LTD. rtified Organization, (MoEF), New Delhi nt Impact Assessment S India Under FSS Act	EST REPORT
HINE Villa Sees	JED TO: D ENERGY AND COAL BENIFICATI ge:- Hindadih pat, Bilaspur (C.G.)-495 001. le Category : Effluent Water le Particulars : Settling Tank-1	ON (1) LTD.	Sample Inward No. Report Issue Date Your Reference Reference Date	Report NoALF : 1819/Mon-415-W1 : 31.12.2018 : HECBIL/HINDADIH/E : 01.01.2017	PL/31122018/650-1 ISP/2017-18/02
Samp Quan Samp	le Particulars : Settling Tank-1 ple Registration Date : 20.12.20 ntity received : 2 L & 250 ple tested as received pling Date : 15.12.20	Oml Ar Te Se	nalysis Starting Date nalysis Completion Date ests required ampled by	: 20.12.2018 : 25.12.2018 : As per w.o. : Anacon Represe	intative
Sr. No.	Test Parameter	TES Measuremen Unit	T RESULTS	Specification as	Test Result
1.	pH	- Unit	IS 3025 (Part 11)	per IS:2490-1982 5.5-9.0	6.73 at 25°C
2.	Chemical oxygen demand (COD)	mg/l	IS 3025 (Part 58)	-	21.96
3.	(EOD) Biochemical oxygen demand (BOD at 27°C for 3 days)	mg/l	IS 3025 (Part 44)	100	7.16
4.	Total suspended solids (TSS)	mg/l	IS 3025 (Part 17)	-	16
5.	Total dissolved solids (TDS)	mg /1	IS 3025 (Part 16)	2100	403
6.	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	600	32.52
7.	Sulphate (as SO <sub>4</sub> )	mg/l	IS 3025 (Part 24)	1000	41.64
8.	Oil & Grease	mg / 1	IS 3025 (Part 39)	10	<4
EMA Land	Verified by PLAKW oshani Thakur	is limited to invoi is la limited to invoi for the date of tes detection limit i d 100% and zero inducted.	st report shall not be repod ced amount only.   Non-per- issue of Test Report, unless of instrument/method and shi	uced except in full without p inhable and perishable samp specified otherwise. • mg/ all be considered as 'abuent' ample complies with IS: 2 Authorize	prior written approval of ple(s) shall be disposed I is equivalent to 'ppm'.
ab : Fi	(Chemist) Hice 60. Beilprebhu Neger, Negpur - 4400 P 34-35. Food Park, Five Star Extate, MDC Helptines : Technical (0375267476), Acc 7661 Emeil: supportiganacom.it. You may	Bullbort, Negour - A sunts Division (9326	441122 Mob. No. 837328747 960051, 8372960078), Admin	(Dire Email: ngp@anacon.in 5. Email: labngp@anacon.in	ctor-Labs)





		ANAC	NLA	B		EST REPORT
	ISO 9001:2008. Recognized By Accredited By Quality Cou Authorised by Fo	ISO 14001:2004, Miniatry of Environ noil of India by N/ od Safety & Stan	RATORIES PVT OHSAS 18001 Ce onment & Forests ABET - Environmen dards Authority of of Indian Standard	ndia	Organization, F), New Delhi act Assessment S Under FSS Act	tudies
HIND Villa Seep	JED TO: D ENERGY AND COAL BENIFICATION ge:- Hindadih pat , Bilaspur (C.G.)-495 001. e Category : Effluent Water	(1) LTD. Repo Your	le Inward No. rt issue Date Reference ence Date	: 31 : HE	Report NoALP 19/Mon-415-W2 12:2018 CBIL/HINDADIH/BS .01:2017	L/31122018/650-2 SP/2017-18/02
Samp Duan Samp	e Particulars : Settling Tank-2 Ne Registration Date : 20,12,2018 titty received : 2 L & 250ml Ne tested as received Ning Date : 15,12,2018		CT (127)		20.12.2018 25.12.2018 As per w.o. Anacon Represen	lative
_		TEST RI	ESULTS	1	8	
Sr. No.	Test Parameter	Measurement Unit	Test Method	1	Specification as per IS:2490-1982	Test Result
1.	pH		IS 3025 (Part 1	1)	5.5-9.0	7.21 at 25°C
2.	Chemical oxygen demand (COD)	mg/t	IS 3025 (Part 5	8)	-	14.96
3.	Biochemical oxygen demand (BOD at 27°C for 3 days)	mg / I	IS 3025 (Part 4	4)	100	4.81
4,	Total suspended solids (TSS)	mg / I	IS 3025 (Part 1	7)	-	13
5.	Total dissolved solids (TDS)	mg/l	IS 3025 (Part 1	8)	2100	261
6.	Chlorides (as Cl)	mg/l	IS 3025 (Part 32	)	600	17.59
7.	Sulphate (as SO4)	rng/i	IS 3025 (Part 24	;	1000	23.64
8.	Oil & Grease	mg / I	IS 3025 (Part 3	9)	10	<4
MA	Please see watermark 'Original Test Repo sample(s) and applicable to tested paramete Anacon Labs.    • Liability of Anacon Labs is i off after 90 days and 15 days respocietively for • 'upil' is equivalent to 'ppb'. • '<' indicates d RKS: Above waste water is recycled 10 for Imigation purpose for the tests condu Verified by     For:	milled to invoiced am milled to invoiced am on the date of issue letection limit of instru- letection limit of instru cted.	ount only.  Non-peris of Test Report, unless a ment/method and shall	hable pecific be comple of	cept in full without pri and persistable sample ed otherwise, • 'mg/r i mildered as 'absent'. complies with IS: 240 Authorized	or written approval of (13) shall be disposed a equivalent to 'ppm' 90-1982 effluent Signatory
Ro	shani Thakut	dia Par No. (1973) 11	ANNET BATTANADIA B	-	an	norfman

