



GLOBAL COAL AND MINING PVT. LTD.

CIN - U10102DL1998PTC094328

(An ISO 9001 : 2015, 14001 : 2015 & 45001 : 2018 Certified Unit, having NABL Accredited Lab)

Plant & Office : Plot No.: 23 & 24, Industrial Estate, P.O:- South Balanda, Talcher, Dist : Angul (Odisha), Pin : 759116
Ph. : 06760-268901, 902, 982, 983, Fax : 06760-268980, E-mail : globaltalcher@globalcoal.net

Regd. Office : #2, First Floor, Sector-8 Market, R.K. Puram, New Delhi-110022, Ph: 011-26712592/93, 26712988, Fax: 011-26712591
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Corp. Office : 7th Floor, Corporate Tower, Ambience Mall, NH-8, Gurgaon (Haryana), Pin-122001, Ph: 0124-2719000, Fax: 0124-2719090

Branch Office : C-30, Palaspali, Aerodrome Area, Bhubaneswar, Pin- 751020, Ph 0674-2593710, Telefax : 0674-2591305
E-mail : globalbbsr@globalcoal.net

Ref No.: GCMPL/TAL/22-23/106

Date: 01.06.2022

To
The Scientist - C
Ministry of Environment, Forest & Climate Change,
Eastern Regional Office,
Govt. of India,
A/3, Chandrasekharpur,
Bhubaneswar – 751023

Sub: Submission of Half yearly compliance report for the period October' 2021 to March' 2022 of Environmental Clearance for expansion of Coal Beneficiation Plant of Global Coal & Mining Pvt. Ltd. located at Industrial Estate, PO-South Balanda, Tehsil Talcher, Dist-Angul (Odisha)

Ref: Our Environmental Clearance No. J-11015/484/2008-IA.II(M) dated 31st December, 2013 and dated 5th February, 2015

Dear Sir,

With reference to the above, please find enclosed herewith the half yearly compliance report of Environmental Clearance for the period from October' 2021 to March' 2022.

Our URL ID - www.globalcoal.net

This is for your information please.

Thanking you,

Yours faithfully,

For **Global Coal and Mining Pvt. Ltd.**

(K. Patra)

Managing Director

Encl.: As above

Copy to: The Regional Officer - For information please
State Pollution Control Board, Odisha
Angul



GSTIN : 21AABCG0215F2ZJ

Beneficiated Coal for Better Environment

Compliance Report

Name of the Project : Global Coal and Mining Pvt. Ltd.
Clearance Letter/s No. and date : J-11015/484/2008-IA.II (M) dated 31st December, 2013
and 5th February, 2015
Period of Compliance Report : October' 2021 – March' 2022

Specific Conditions :

Sr. No.	Conditions	Compliance Status
i.	Coal transport from mines by belt conveyor to be expedited and till its start to be done by mechanically covered trucks. The washed coal transport to the siding and loading into Railway Wagons will be by silo system and to be completed within 2 yrs. matching the proposed expansion.	Raw Coal from MCL is transported by covered Tippers. The conveyor belt for coal transport will be started, once MCL will start central despatch system by conveyor belt system. For silo at siding, Feasibility Report of the Silo is under preparation and it will submit to Railway Authority for approval.
ii.	Raw Coal linkage from the coal company for washing or beneficiation is from a basket of group of mines. As soon as MCL reverts to central dispatch point, M/s Global Coal & Mining Pvt. Ltd. shall install it's conveyor system to lift coal from that location. As desired, it was further agreed that washed coal shall be conveyed to the proposed railway siding through a set of conveyors to avoid road transport.	Raw Coal from MCL is transported by covered Tippers. The conveyor belt for coal transport will be started, once MCL will start central despatch system by conveyor belt system. Now Coal is transported to Railway Siding by Belt Conveyor.
iii.	Methods be explored for recovery of Mercury in fly ash.	Deleted
iv.	Washery rejects goes to FBC Boiler of 35 MW Power Plant, till then M/s IMFA which has FBC that will receive the rejects.	Washery rejects is used in power house having FBC / CFBC Boiler only.
v.	A plan of coal evacuation to end users by rail mode be prepared and implemented.	All washed coal evacuated / transported by Rail mode to the consumer.
vi.	The raw coal transportation should be either by rail or conveyor as the project is located in CPA of Angul-Talcher.	Raw Coal from MCL is transported by covered Tippers. The conveyor belt for coal transport will be started, once MCL will start central despatch system by conveyor belt system. However we have submitted Feasibility Report for transporting coal through Conveyor Belt.
vii.	The proponent should dovetail transportation with MCL as MCL itself is required to establish a proposed railway line for transportation of coal from MCL mines.	Agreed
viii.	Best option for transportation of coal be implemented.	Best available option is adopted in present condition.

Contd...P/2

Sr. No.	Conditions	Compliance Status
ix.	The proponent shall provide specific measures and other mitigative measures for reducing pollution and for reducing environmental impacts of operation of the washery in the midst of a CPA Angul-Talcher. The measures should be based on the Environmental Action Plan prepared by OSPCB recommended for the Angul-Talcher Region.	All guideline of OSPCB for Consent to Operate is adhered as per OSPCB recommended for the Angul-Talcher Region.
x.	Massive tree plantation is required in the proposed area. 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 dovetailed 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.	Plantation is done as follows:- (1) Inside the Plant Area – 5.11 Ac. (6721 Nos.) [Gap Plantation – 450 Nos. + 200 Nos. +200 Nos.] (2) IDCO Road side for coal transportation- 3098 Nos. (3) Avenue Plantation on both side of the road from FCI Chhak to Ghantapada – 2 KM (1845 Nos.) [Gap Plantation – 600 Nos.] (4) In the Locality of Ghantapada and Deojharan village - 1041 Nos. (5) Baghamara sahi School compound – 784 Nos. (6) Near Bhagakata Tank at Deulabeda Telisahi behind Colliery Police Station. – 2.00 Ac (2000 Nos.)
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 shall be taken to ensure that the stored minerals do not catch fire.	Agreed and done
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.	Agreed and done
xiii.	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with 8 mechanical sweepers.	Agreed & all roads are made of concrete. Regular mechanical cleaning of the road is done and mobile Tankers are used for water spraying regularly.
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 enroute. 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.	Agreed and done

Sr. No.	Conditions	Compliance Status
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.	Details are attached from October' 2021 to March' 2022 (Annexure – 1).
xvi.	The Washery unit shall be a zero-discharge facility and no waste water shall be discharged from the washery into the drains / natural watercourses. Recycled water shall be used for development and maintenance of green belt and in the Plant Operations. Industrial wastewater (workshop) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May 1993 and 31 st 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.	Agreed and done. No waste water are discharged out from the washery.
xvii.	No additional groundwater shall be used for Plant Operations. Any additional water requirement envisaged shall be obtained by recycle / reuse to the maximum extend and from rainwater harvesting measures.	Water requirement is met by drawing from Rain Water Harvest Pond constructed inside the plant Area.
xviii.	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.	Details of CSR are attached (Annexure-2).
xix	Heavy metal content in raw coal, and washed coal shall be analysed once in a year and records maintained thereof.	As per CIMFR report, the heavy metals such as Hg, As, Ni, Cd, Cr, etc are not content in Raw Coal. So the Heavy Metal content in washed coal and Rejects are ruled out.

Contd....P/4

General Conditions :

Sr. No.	Conditions	Compliance Status
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	There is no change in technology and scope of working as per guideline of Ministry of Environment and Forests and followed.
ii	No change in the calendar plan of production for quantum of mineral coal shall be made.	There is no change in the calendar plan of production for quantum of mineral coal.
iii	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	<p>The Regional Office, Angul of OSPCB is monitoring regularly for PM₁₀, PM_{2.5}, SO₂ and NO_x.</p> <p>We are also deputed an authorised agency M/s Centre for Envotech And Management Consultancy (P) Ltd., Bhubaneswar for monitoring PM₁₀, PM_{2.5}, SO₂ and NO_x quarterly (Annexure-3).</p> <p>As per CIMFR report, the heavy metals such as Hg, As, Ni, Cd, Cr, etc are not content in Raw Coal. So the Heavy Metal content in washed coal and Rejects are ruled out.</p>
iv	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) and heavy metals such as 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 furnished as part of compliance report.	<p>The Regional Office, Angul of OSPCB is monitoring regularly for PM₁₀, PM_{2.5}, SO₂ and NO_x.</p> <p>We are also deputed an authorised agency M/s Centre for Envotech And Management Consultancy (P) Ltd., Bhubaneswar for monitoring PM₁₀, PM_{2.5}, SO₂ and NO_x quarterly.</p> <p>As per CIMFR report, the heavy metals such as Hg, As, Ni, Cd, Cr, etc are not content in Raw Coal. So the Heavy Metal content in washed coal and Rejects are ruled out.</p>
v	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	In every month we are measuring the noise levels, which is within the permissible limit as per norms (Annexure-4) .

Sr. No.	Conditions	Compliance Status
vi	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th 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.	Agreed. No waste water are discharged out from the washery.
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.	Strictly followed. The PUC Certificate of vehicles are made in every 06 (six) months.
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.	Followed
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.	We are providing the PPE's who are working in the plant as well as dusty area. Also we are giving Training and information to the personnel on safety and health aspects
x	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 while outsourcing.	Periodical Health Check up of our workers are conducting every year. The report of the same are submitting at O/o Directorate of Factories and Boilers, Odisha, Bhubaneswar. However Health Check up for the year 2021 could not be done due to Covid-19.
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.	Agreed
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.	Agreed

Sr. No.	Conditions	Compliance Status
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 & Forest at http://envfor.nic.in .	Complied on dated 10.01.2014
xiv	A copy of the environmental clearance letter shall be marked to concern Panchayat / Zila Parisad, 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.	Complied
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.	Complied
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 NO _x (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.	Complied

Sr. No.	Conditions	Compliance Status
xvii	The project proponent shall submit six monthly compliance reports on status of 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.	Complied
xviii	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information /monitoring reports.	Agreed
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 e-mail.	Complied

For Global Coal And Mining Pvt.Ltd.


Managing Director

Signature

**GLOBAL COAL AND MINING PVT. LTD., TALCHER
STATEMENT OF COAL FOR THE PERIOD OCTOBER' 2021 TO MARCH' 2022**

Quantity in Tonnes

Month	Opening Balance				Quantity Received		Feed to Plant		Production				Despatch				Closing Balance			
	Raw Coal	Clean Coal	Reject Coal	Waste	Raw Coal	Carpeted Coal / Waste from Stock	Raw Coal	Carpeted Coal / Waste	Clean Coal	Reject Coal	Re-Cycled Reject Coal	Waste	Clean Coal By Road	Clean Coal By Rail	Reject Coal By Road	Reject Coal By Rail	Raw Coal	Clean Coal	Reject Coal	Waste
Oct-21	0	17419.710	3721.450	1525.220	121858.070	0	121858.070	0	89565.680	32177.390	0	115.000	0	67154.460	3671.480	14983.070	0	39830.930	17244.290	1640.220
Nov-21	0	39830.930	17244.290	1640.220	94241.540	0	94241.540	0	69267.540	24886.000	0	88.000	0	97968.160	7446.450	18337.400	0	11130.310	16346.440	1728.220
Dec-21	0	11130.310	16346.440	1728.220	101585.250	0	101585.250	0	74665.150	26828.100	0	92.000	0	44334.280	18911.940	11164.460	0	41461.180	13098.140	1820.220
Jan-22	0	41461.180	13098.140	1820.220	59832.000	0	59832.000	0	43976.520	15800.480	0	55.000	0	65183.060	19483.380	3772.210	0	20254.640	5643.030	1875.220
Feb-22	0	20254.640	5643.030	1875.220	60000.000	0	60000.000	0	44100.000	15844.000	0	56.000	0	51766.400	4788.930	7524.820	0	12588.240	9173.280	1931.220
Mar-22	0	12588.240	9173.280	1931.220	86767.720	0	86767.720	0	63774.270	22913.450	0	80.000	0	62445.680	7341.650	11237.660	0	13916.830	13507.420	2011.220
Total =					524284.580	0	524284.580	0	385349.160	138449.420	0	486.000	0	388852.040	61643.830	67019.620				

For Global Coal And Mining Pvt.Ltd.


 Managing Director

**Amount of money spent towards CSR Activities
for the period October' 2021 – March' 2022**

Sl No.	Description	Amount (Rs.)
1	Financial Help for payment of Teachers salary of Panchayat High School, Tentulei Village.	45000.00
2	Financial help to sweeper working at Jagannath Mandir, Jagannath Colony, Talcher.	42399.00
3	Financial help to sweeper working at Sub Divisional Medical Hospital, Talcher	9000.00
4	Apprentice Training .	251188.00
5	Construction of village Mandap / Meeting Hall with Library Hall & Kamana Ghara in Ghantapada village, Dist-Angul	1331703.00
6	Installation of CCTV Camera at Talcher Railway Station	72502.00
7	Development in Ghantapada Graveyard (Smasana) of Ghantapada village, Dist-Angul	82042.00
	Total	1833834.00

All the above CSR activities are done by us directly with the approval of District Authority i.e. Sub-Collector, Talcher.

For Global Coal And Mining Pvt.Ltd.


Managing Director

Construction of village Mandap / Meeting Hall with Library Hall & Kamana Ghara in Ghantapada village, Dist-Angul



Construction of village Mandap / Meeting Hall with Library Hall & Kamana Ghara in Ghantapada village, Dist-Angul



Construction of village Mandap / Meeting Hall with Library Hall & Kamana Ghara in Ghantapada village, Dist-Angul



Development in Ghantapada Graveyard (Smasana) of Ghantapada village, Dist-Angul



ENVIRONMENTAL MONITORING REPORT

Of

M/s GLOBAL COAL AND MINING PVT. LTD

Anugul, Odisha

OCTOBER - DECEMBER 2021



Centre For Envotech and Management Consultancy Pvt. Ltd.

Environmental Laboratory

(An ISO 9001-2015, OHSAS 18001:2007 & ISO 14001-2015 Certified Company, Empanelled with SPCB, Odisha)

MoEF &CC Govt. of India Recognised Environmental Laboratory

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar – 752101, Odisha




CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001:2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF (Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Main Gate
Sampling Date	14-10-2021 to 15-10-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	67.5	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.1	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.8	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.9	80


Authorized Signatory

Notes:

- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.



Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1st Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826
E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: ccmclab@yahoo.in, Mobile: 7752014842



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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	14-10-2021 to 15-10-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	70.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.1	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.3	80


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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1st Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826
E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842




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AMBIENT AIR QUALITY MONITORING TEST REPORT

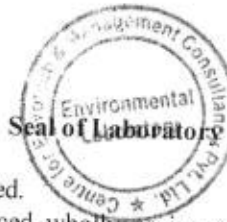
Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	14-10-2021 to 15-10-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	60.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.1	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.9	80


Authorized Signatory

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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: ccmclab@yahoo.in, Mobile: 7752014842



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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	14-10-2021 to 15-10-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	59.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.6	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.1	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.9	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Pneumatic Jig Stack Area
Sampling Date	14-10-2021 to 15-10-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	63.7	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.9	80


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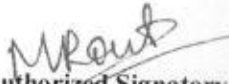
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SOURCE EMISSION MONITORING TEST REPORT

Name of the Client	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Source Emission
Sampling By	Mr. Biman Patra
Instrument Used	Stack monitoring kit
Sampling Date	15-10-2021

Sl. No.	Location	Flue Gas Temp. in K	Average Flue Gas Velocity in m/sec	Result
				Particulate matter (PM) (mg/Nm ³)
01	Stack attach to Bag filter, Near Jig Stake	301	7.6	48.3


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Main Gate
Sampling Date	12-11-2021 to 13-11-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	62.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.7	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.2	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	12-11-2021 to 13-11-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	69.1	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.5	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.7	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	12-11-2021 to 13-11-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	59.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.1	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.7	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	12-11-2021 to 13-11-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	56.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.1	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Pneumatic Jig Stack Area
Sampling Date	12-11-2021 to 13-11-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	13.6	80


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SOURCE EMISSION MONITORING TEST REPORT

Name of the Client	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Source Emission
Sampling By	Mr. Biman Patra
Instrument Used	Stack monitoring kit
Sampling Date	12-11-2021

Sl. No.	Location	Flue Gas Temp. in K	Average Flue Gas Velocity in m/sec	Result
				Particulate matter (PM) (mg/Nm ³)
01	Stack attach to Bag filter, Near Jig Stake	301	7.4	44.2


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Main Gate
Sampling Date	26-12-2021 to 27-12-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	72.5	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.7	80


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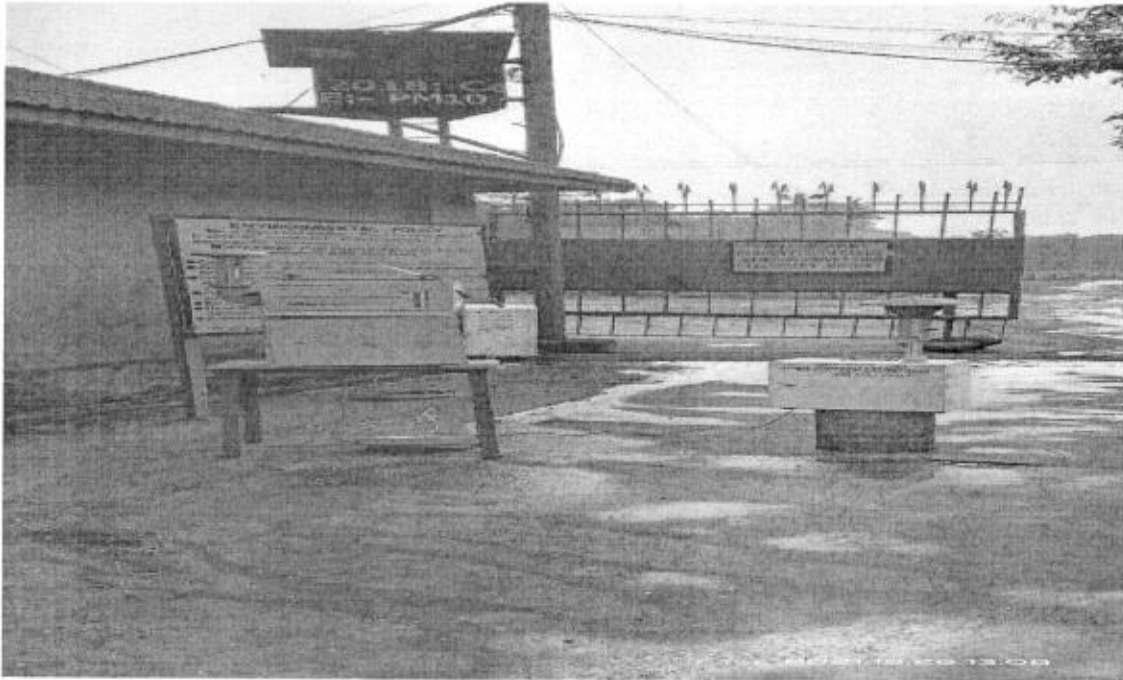
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	26-12-2021 to 27-12-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.1	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.6	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.9	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	26-12-2021 to 27-12-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	63.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.1	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.7	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.2	80


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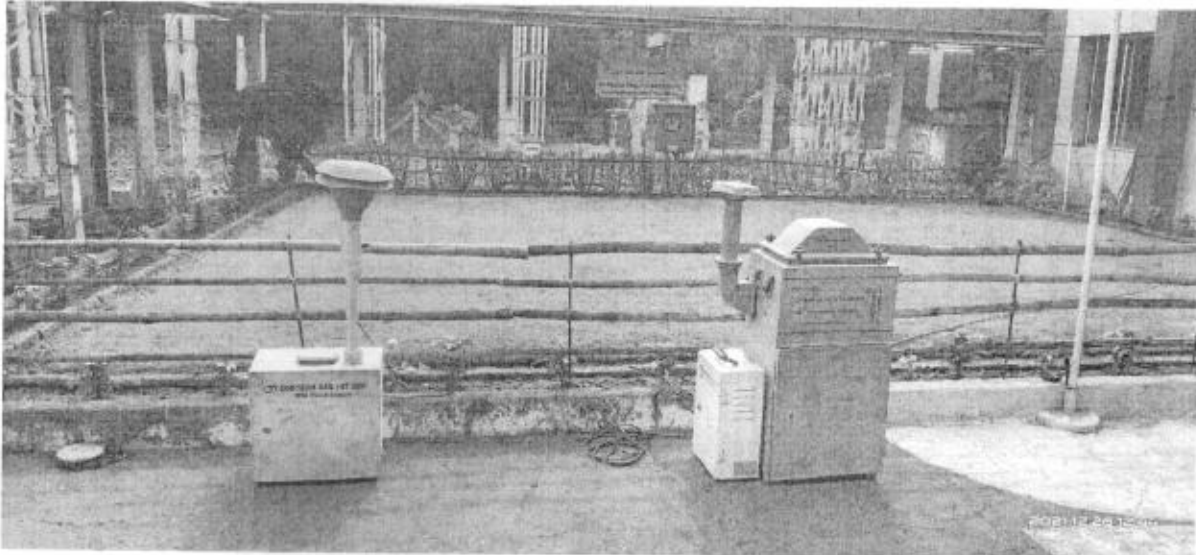
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	23-12-2021 to 24-12-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	57.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.6	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.9	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.2	80


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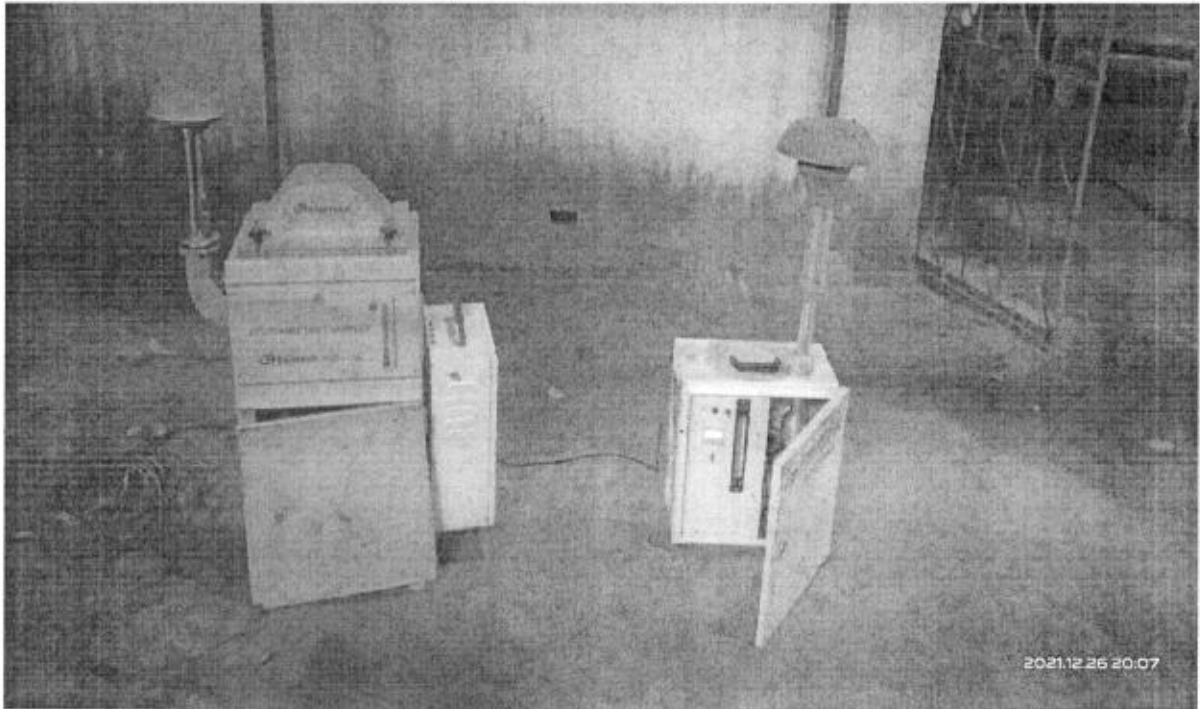
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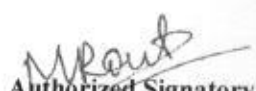
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Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Pneumatic Jig Stack Area
Sampling Date	26-12-2021 to 27-12-2021

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	67.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.7	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.8	80


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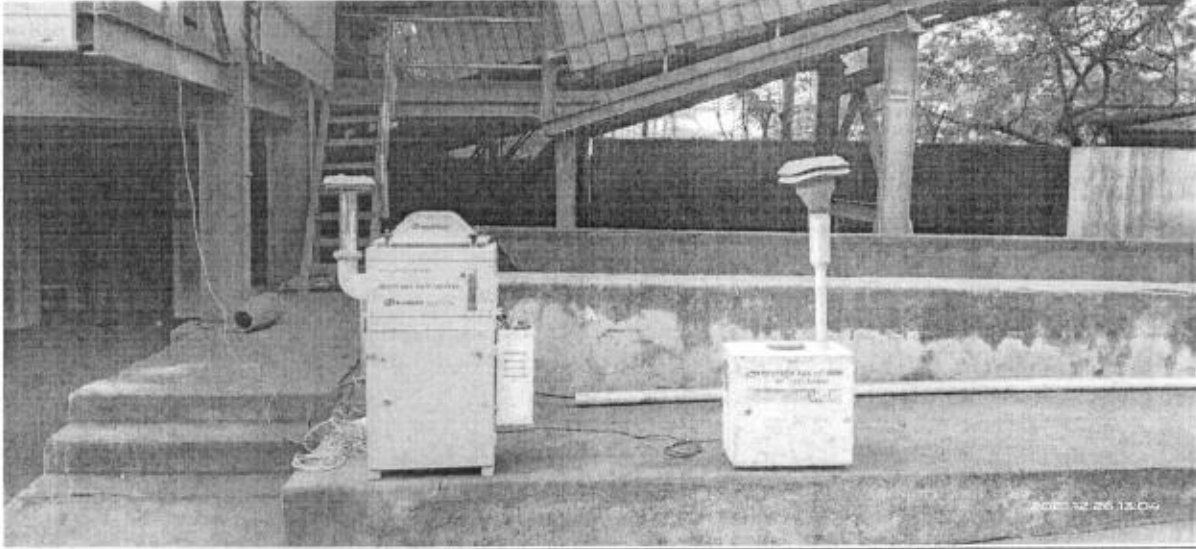
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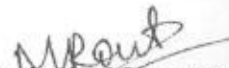
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SOURCE EMISSION MONITORING TEST REPORT

Name of the Client	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Source Emission
Sampling By	Mr.Biman Patra
Instrument Used	Stack monitoring kit
Sampling Date	26-12-2021

Sl. No.	Location	Flue Gas Temp. in K	Average Flue Gas Velocity in m/sec	Result
				Particulate matter (PM) (mg/Nm ³)
01	Stack attach to Bag filter, Near Jig Stake	296	7.5	43.8


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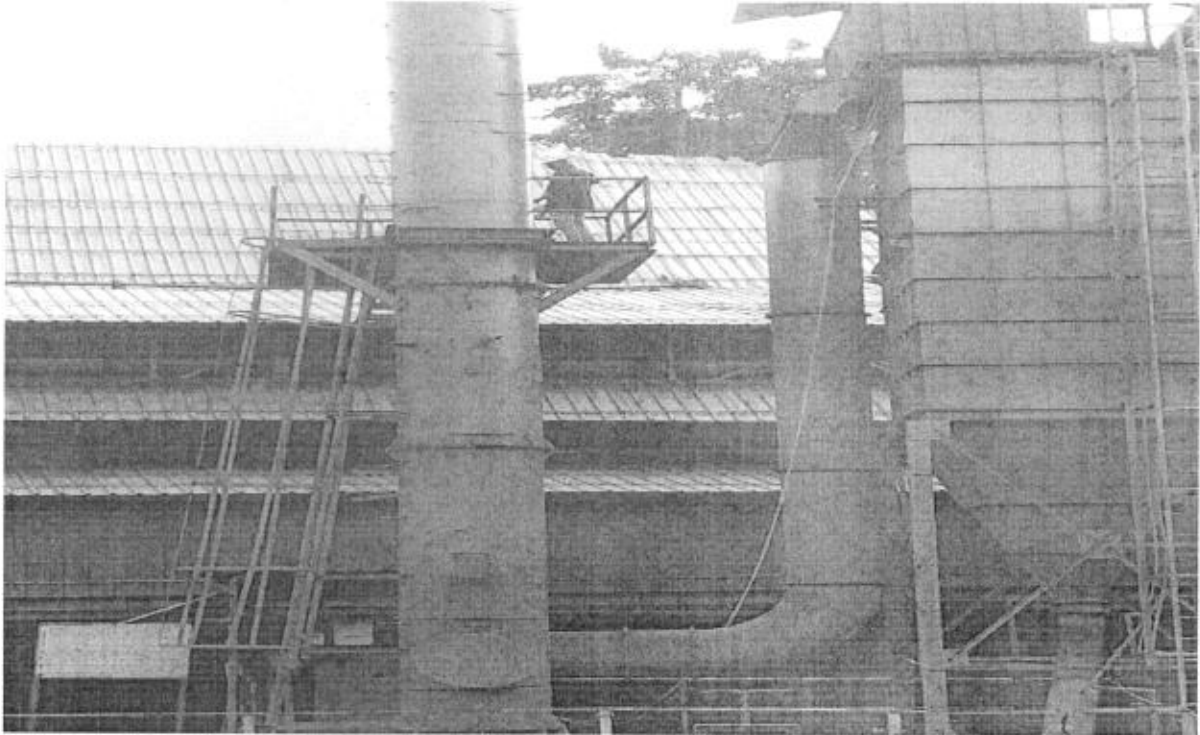
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ENVIRONMENTAL MONITORING REPORT

Of

M/s GLOBAL COAL AND MINING PVT. LTD

Anugul, Odisha

JANUARY-MARCH 2022



Centre For Envotech and Management Consultancy Pvt. Ltd.
Environmental Laboratory

(An ISO 9001-2015, OHSAS 18001:2007 & ISO 14001-2015 Certified Company, Empanelled with SPCB, Odisha)

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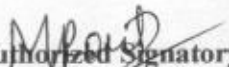
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Main Gate
Sampling Date	20-01-2022 to 21-01-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.8	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	17.9	80


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Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	20-01-2022 to 21-01-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.9	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	39.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.8	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	18.3	80

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Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	20-01-2022 to 21-01-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	62.1	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.3	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.9	80

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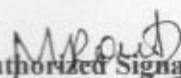
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Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	20-01-2022 to 21-01-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	58.7	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.9	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.5	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.1	80


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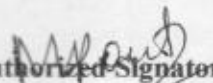
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Pneumatic Jig Stack Area
Sampling Date	20-01-2022 to 21-01-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	68.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.5	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.7	80


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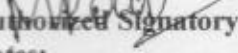
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SOURCE EMISSION MONITORING TEST REPORT

Name of the Client	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Source Emission
Sampling By	Mr. Biman Patra
Instrument Used	Stack monitoring kit
Sampling Date	20-01-2022

Sl. No.	Location	Flue Gas Temp. in K	Average Flue Gas Velocity in m/sec	Result
				Particulate matter (PM) (mg/Nm ³)
01	Stack attach to Bag filter, Near Jig Stake	297	7.2	41.6


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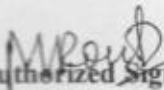
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Main Gate
Sampling Date	22-02-2022 to 23-02-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	62.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.7	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.2	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	22-02-2022 to 23-02-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	69.1	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.5	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.7	80


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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	22-02-2022 to 23-02-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	59.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.1	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.7	80

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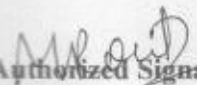
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	22-02-2022 to 23-02-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	56.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.1	80


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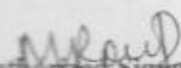
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Pneumatic Jig Stack Area
Sampling Date	22-02-2022 to 23-02-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	13.6	80


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SOURCE EMISSION MONITORING TEST REPORT

Name of the Client	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Source Emission
Sampling By	Mr. Biman Patra
Instrument Used	Stack monitoring kit
Sampling Date	22-02-2022 to 23-02-2022

Sl. No.	Location	Flue Gas Temp. in K	Average Flue Gas Velocity in m/sec	Result
				Particulate matter (PM) (mg/Nm ³)
01	Stack attach to Bag filter, Near Jig Stake	301	7.4	44.2

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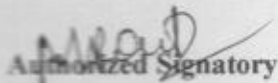
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Main Gate
Sampling Date	07-03-2022 to 08-03-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	69.5	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.3	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.7	80


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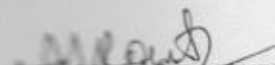
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Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	07-03-2022 to 08-03-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	71.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	39.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.5	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.4	80


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Regd. Office: 1st Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826
E-mail: cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842



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Established in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
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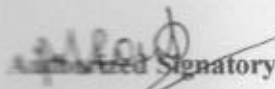
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	07-03-2022 to 08-03-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	60.9	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.7	80


Authorized Signatory



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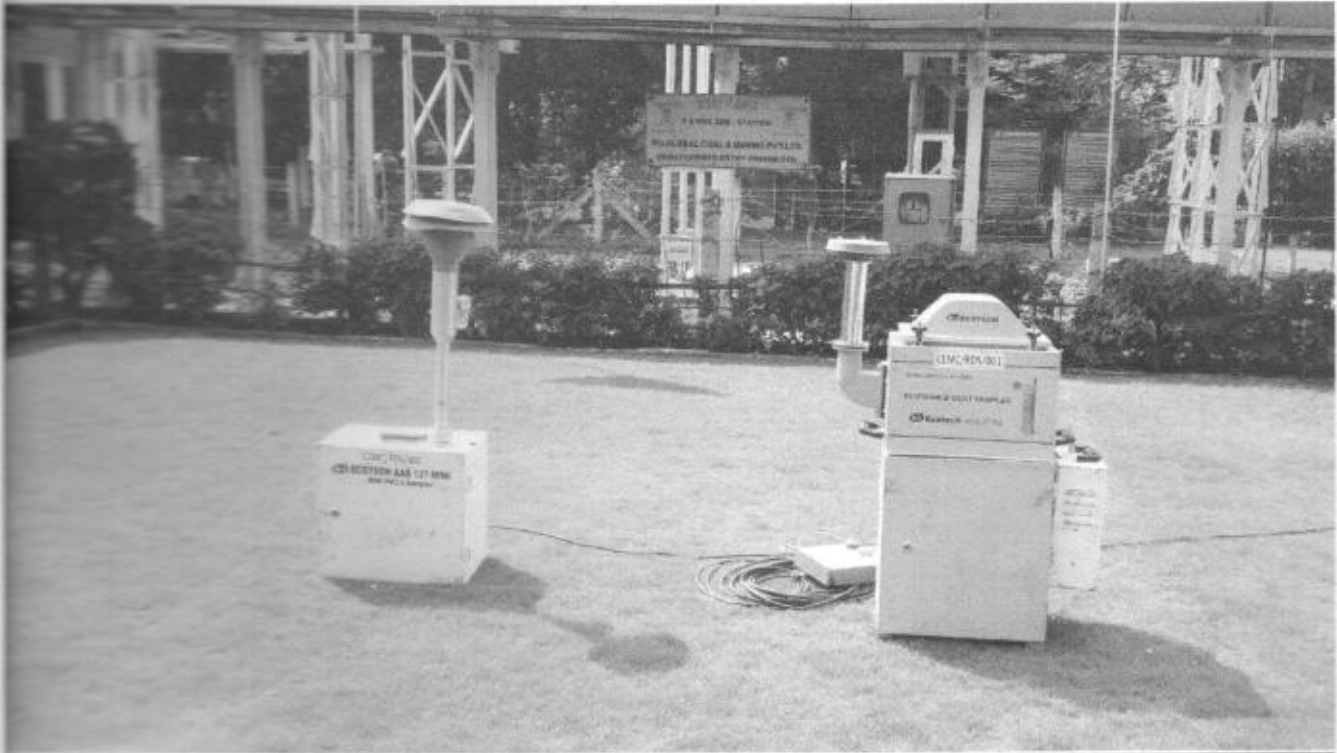
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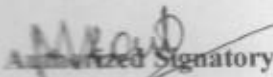
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	07-03-2022 to 08-03-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	60.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.7	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.3	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.1	80


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Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Pneumatic Jig Stack Area
Sampling Date	07-03-2022 to 08-03-2022

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65.9	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.1	80


Authorized Signatory
Name:



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SOURCE EMISSION MONITORING TEST REPORT

Name of the Client	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Source Emission
Sampling By	Mr. Biman Patra
Instrument Used	Stack monitoring kit
Sampling Date	07-03-2022

Sl. No.	Location	Flue Gas Temp. in K	Average Flue Gas Velocity in m/sec	Result
				Particulate matter (PM) (mg/Nm ³)
01	Stack attach to Bag filter, Near Jig Stake	308	7.9	49.2


Authorized Signatory

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E-mail: cemclab@yahoo.in, Mobile: 7752014842



F. No. LB/99/7/2021-INST LAB-HO-CPCB-HO/ Pvt-180

Dated: 23rd May 2022

1323

Speed Post

To,

The Director
M/s Centre for Envotech and Management Consultancy Pvt. Ltd. (Lab Division)
Plot-800/1274, Johal, Pahal,
Bhubaneswar-752101, Odisha

Subject: Recognition of M/s Centre for Envotech and Management Consultancy Pvt Ltd (Lab Division) Plot-800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha as Environmental laboratory under the Environmental (Protection) Act-1986.

Sir,

I am directed to refer to your application dated 04/06/2021 for the recognition of your laboratory Environmental (Protection) Act, 1986. Based on the recommendations of the expert committee for recognition of Environmental laboratories in its 67th meeting held on 14th & 20th January 2022 and your acceptance of the revised terms and conditions at Annexure-III & IV of the guidelines for recognition of environmental laboratories. CPCB approves the renewal of recognition of **M/s Centre For Envotech and Management Consultancy Pvt Ltd (Lab Division), Plot-800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha** as shall be notified in the Gazette of India. **Considering the current requirement of mandatory accreditation/ certifications of the laboratory, this recognition shall be valid up to 26/01/2024.**

2. As sought in your aforementioned application **M/s Centre for Envotech and Management Consultancy Pvt Ltd (Lab Division), Plot-800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha** may undertake the following tests.

- i. **Physical Tests**-Conductivity, Colour, pH, Fixed & Volatile solids, Total Solids, Total Dissolved Solids, Total Suspended Solids, Turbidity, Temperature, Velocity & Discharge Measurement of Industrial Effluent Stream, Odour, Salinity and Settleable Solids.
- ii. **Inorganic (General and non-metallic):** Acidity, Alkalinity, Ammoniacal Nitrogen, Chloride, Chlorine Residual, Dissolved Oxygen, Fluoride, Total Hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Chlorine Demand, Sulphite, Cyanide and Sulphide.
- iii. **Inorganic (Trace Metals):** Boron, Cadmium, Calcium, Chromium Total, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio, Zinc, Arsenic, Aluminium, Barium, Manganese and Selenium.
- iv. **Organics (General) and Trace Organics:** Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenol, Pesticide (each) (Organochlorine and Organo nitrogen-phosphorus, Poly Chlorinated Biphenyl (PCBs) Each, Polynuclear Aromatic Hydrocarbons (PAHs) Each, Organic Carbon (In Solid) and Carbon/Nitrogen ratio.
- v. **Microbiological test:** Total Coliform, Faecal Coliform, Faecal Streptococci, *E. coli*, and Total Plate Count.
- vi. **Toxicological Tests:** Bioassay Method for Evaluation of Toxicity Using Fish and Measurement of Toxicity Factor Using Zebra Fish (Dimensionless Toxicity Test).
- vii. **Biological Tests:** Chlorophyll, Primary productivity and P/R Ratio.

Contd.

- viii. **Characterization of Hazardous waste:** Preparation of Leachate (TCLP/Water Extract), Ignibility (Flash Point), and Measurement Of Heavy Metals/Pesticides in the Waste/Leachate.
- ix. **Soil/sludge/Sediment and solid waste:** Boron, Cation Exchange Capacity (CEC), Electrical Conductivity, Nitrogen (Available), Organic Carbon/Matter (Chemical Method), pH, Phosphorous (Available), Phosphate (Ortho), Phosphate (Total), Potassium, SAR in Soil Extract, Sodium, Soil moisture, TKN, Calorific Value, Ammonia, Calcium, Chloride, Colour, Heavy Metal, Magnesium, Nitrate, Nitrite, Pesticide, Potash (Available), Sulphur, Total Water Soluble Salt and Water Holding Capacity.
- x. **Ambient Air/ Fugitive emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Carbon Monoxide, Lead, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene and Others and PM_{2.5}
- xi. **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Chlorine, Fluoride (Particulate) and Fluoride (Gaseous).
- xii. **Noise Level:** Noise Level Measurement (20-140 dBa) And Ambient Noise and Source Specific Noise.
- xiii. **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity, Solar Radiation and Rainfall.
3. Further, the following analysts have been approved for recognition as government Analysts.
- i. Dr. Bidyut Kumar Patra,
 - ii. Ms. Mitali Rout,
 - iii. Ms. Bishnupriya Das
4. The laboratory shall compulsorily participate in the Analytical Quality Comparison (AQC) Exercise conducted by the Central Pollution Control Board (CPCB) to ascertain the capability of the laboratory for analysis and shall submit quarterly progress report to CPCB.
5. The surprise inspection/periodic surveillance of the recognized environment laboratory will be undertaken by CPCB to assess its proper functioning, systematic operation and reliability of data generated at the laboratory.
6. It is also mandatory for the laboratory to have requisite accreditations of the ISO: 17025 (NABL) and ISO:45001 (OH&SMS) and its renewal as per accreditation rules. This recognition is subject to such accreditations and renewals as applicable. The laboratory is required to apply online for further renewal of recognition through CPCB web portal after renewal of the mandatory accreditations / certifications concerned.
7. The laboratory should compulsorily follow the accepted terms and conditions. In case of serious non-compliance of any of the terms and conditions, the laboratory may be black listed for a minimum period of two years and civil/criminal proceedings, as applicable, may be initiated for performing functions on behalf of the Government in an unauthorized manner.

Yours faithfully,

Handwritten signature and date: 23/07/2022

Scientist-D & Divisional Head
Instrumentation laboratory



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**CENTRE FOR ENVOTECH AND MANAGEMENT
CONSULTANCY PVT. LTD. (LAB DIVISION)**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT-800/1274, JOHAL, PAHAL, BHUBANESWAR, ODISHA, INDIA

in the field of

TESTING

Certificate Number: TC-6646

Issue Date: 27/01/2022

Valid Until:

26/01/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

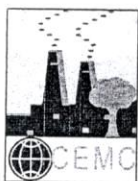
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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AMBIENT NOISE MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Noise
Sampling By	Mr. Biman Patra
Instrument Used	Sound level meter
Sampling Point	Inside Plant
Sampling Date	15-10-2021

MONITORING RESULT

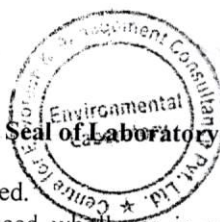
Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	70.3	65.4

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

M. Patra
Authorized Signatory

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AMBIENT NOISE MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Noise
Sampling By	Mr. Biman Patra
Instrument Used	Sound level meter
Sampling Point	Inside Plant
Sampling Date	12-11-2021

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	68.9	63.2

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Authorized Signatory

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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemclab@yahoo.in, Mobile: 7752014842



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001:2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization, Empanelled with PCCF (Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

AMBIENT NOISE MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Noise
Sampling By	Mr. Biman Patra
Instrument Used	Sound level meter
Sampling Point	Inside Plant
Sampling Date	26-12-2021

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	70.5	63.8

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Notes:

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AMBIENT NOISE MONITORING TEST REPORT

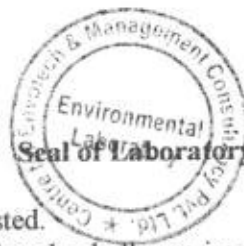
Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Noise
Sampling By	Mr.Biman Patra
Instrument Used	Sound level meter
Sampling Point	Inside Plant
Sampling Date	20-01-2022

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	71.6	65.3

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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AMBIENT NOISE MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Noise
Sampling By	Mr.Biman Patra
Instrument Used	Sound level meter
Sampling Point	Inside Plant
Sampling Date	22-02-2022 to 23-02-2022

MONITORING RESULT

Sl No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	68.9	63.2

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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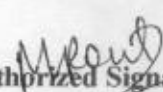
AMBIENT NOISE MONITORING TEST REPORT

Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Noise
Sampling By	Mr. Biman Patra
Instrument Used	Sound level meter
Sampling Point	Inside Plant
Sampling Date	07-03-2022

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	71.2	66.1

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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