



GLOBAL COAL AND MINING PRIVATE LIMITED

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
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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/24-25/526.

Date: 05.12.2024

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 April' 2024 to September' 2024 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 April' 2024 to September' 2024.

Our URL ID - www.globalcoal.net

This is for your information please.

Thanking you,

Yours faithfully,

For Global Coal And Mining Private Limited

(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 Private Limited

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 : April' 2024 – September' 2024

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.

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.) (7) Along the boundary wall of the Railway Siding - 501 Nos. (8) Plant Area and Railway Siding (Gap Plantation) - 350 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.

Sr. No.	Conditions	Compliance Status
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
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 April' 2024 to September' 2024 (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.

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) .

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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.
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

Contd...P/7

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 Private Limited



**Managing Director
Signature**

GLOBAL COAL AND MINING PRIVATE LIMITED, TALCHER
STATEMENT OF COAL FOR THE PERIOD APRIL' 2024 TO SEPTEMBER' 2024

Quantity in Tonnes

Month	Opening Balance				Raw Coal Received	Raw Coal Feed to Plant	Production			Despatch				Closing Balance			
	Raw Coal	Clean Coal	Reject Coal	Waste			Clean Coal	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
Apr-24	0	9773.560	64315.740	0	257718.870	257718.870	189578.660	68140.210	0	0	196566.520	0	40493.100	0	2785.700	91962.850	0
May-24	0	2785.700	91962.850	0	274936.830	245000.000	181815.870	63184.130	0	0	177938.110	0	67440.260	29936.830	6663.460	87706.720	0
Jun-24	29936.830	6663.460	87706.720	0	230874.900	260811.730	194398.000	66413.730	0	0	192177.320	120.000	70536.030	0	8884.140	83464.420	0
Jul-24	0	8884.140	83464.420	0	245866.370	245866.370	180714.160	65152.210	0	0	181190.110	0	43357.610	0	8408.190	105259.020	0
Aug-24	0	8408.190	105259.020	0	201023.550	201023.550	147752.310	53271.240	0	0	150807.770	0	29312.220	0	5352.730	129218.040	0
Sep-24	0	5352.730	129218.040	0	207656.570	207656.570	152627.580	55028.990	0	0	147088.510	0	50897.270	0	10891.800	133349.760	0
Total =					1418077.090	1418077.090	1046886.580	371190.510	0	0	1045768.340	120.000	302036.490				

For Global Coal And Mining Private Limited


Managing Director

GLOBAL COAL AND MINING PRIVATE LIMITED, TALCHER**Amount of money spent towards CSR Activities
for the period April' 2024 – September' 2024**

SN	Description	Amount (Rs.)
1	Donation in District Cultural Programme - (a) Sponsorship for one Night Cultural Programme at Gundicha Temple, Angul in between 08.07.2024 to 15.07.2024	50,000.00
2	Financial Help - Payment of Salary to the Teachers / Staffs of Panchayat High School, Tentulei G.P.	45,000.00
3	Financial Help - Payment to Safai Karmachari at Jagannath Temple, Jagannath Colony, Talcher.	42,699.00
4	Supply of Bleaching Powder, Lime and providing sprinkling charges to Ghantapada Grama Panchayat, Talcher, Dist-Angul	93,000.00
	Total	2,30,699.00

All the above CSR activities are done by us directly with the approval of District Authority.

For Global Coal And Mining Private Limited


Managing Director

Supply of Bleaching Powder, Lime and providing of Sprinkling charges to Ghantapada Grama Panchayat, Talcher , Dist-Angul



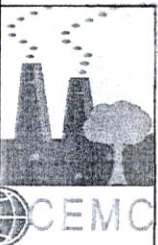
ENVIRONMENTAL MONITORING REPORT

Of

M/s GLOBAL COAL AND MINING PVT. LTD

Anugul, Odisha

APRIL-JUNE 2024



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

Mob: 7752014842



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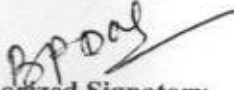
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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

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	11.04.2024 to 12.04.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	43.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	19.2	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.
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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: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
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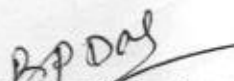
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AMBIENT AIR QUALITY MONITORING TEST REPORT

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	11.04.2024 to 12.04.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	71.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	17.8	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: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

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



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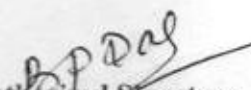
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AMBIENT AIR QUALITY MONITORING TEST REPORT

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	11.04.2024 to 12.04.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	9.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.6	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	11.04.2024 to 12.04.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	59.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	7.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	13.2	80


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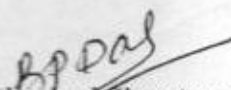
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AMBIENT AIR QUALITY MONITORING TEST REPORT

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 Pneumatic Jig Stack Area
Sampling Date	11.04.2024 to 12.04.2024

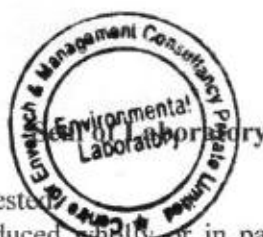
ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.4	80


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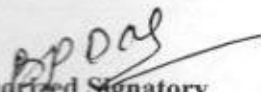
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SOURCE EMISSION MONITORING TEST REPORT

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	11.04.2024

ANALYSIS RESULT

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	7.3	43.6


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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	15.05.2024 to 16.05.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.8	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.2	80

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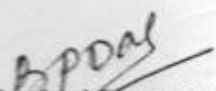
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AMBIENT AIR QUALITY MONITORING TEST REPORT

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	Weigh Bridge.
Sampling Date	15.05.2024 to 16.05.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	17.4	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	15.05.2024 to 16.05.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	68.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.6	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.8	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	15.05.2024 to 16.05.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	60.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.6	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	15.05.2024 to 16.05.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	70.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	10.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.8	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	15.05.2024

ANALYSIS RESULT

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	314	8.0	46.0


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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	19.06.2024 to 20.06.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	72.0	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.4	80


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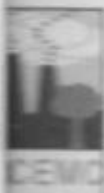


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Issued to	Global Coal and Mining Pvt. Ltd, Angul, Odisha
Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	19.06.2024 to 20.06.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	69.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.6	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	19.06.2024 to 20.06.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	66.4	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	15.8	80

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19:06:2024

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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 Guest House
Sampling Date	19.06.2024 to 20.06.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	55.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	9.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	13.2	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	19.06.2024 to 20.06.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	16.8	80


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Balanda
Northern Division
Odisha
19:06:2024

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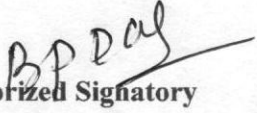
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SOURCE EMISSION MONITORING TEST REPORT

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	12.06.2024

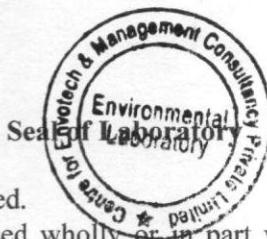
ANALYSIS RESULT

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	320	7.5	44.4


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ENVIRONMENTAL MONITORING REPORT

Of

M/s GLOBAL COAL AND MINING PVT. LTD

Anugul, Odisha

JULY-SEPT 2024

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

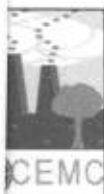
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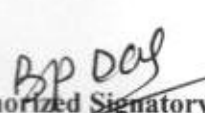
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AMBIENT AIR QUALITY MONITORING TEST REPORT

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	11.07.2024 to 12.07.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	63.9	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	9.7	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.6	80


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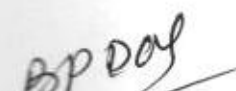
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Nature of Sampling	Ambient Air Sample
Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Weigh Bridge.
Sampling Date	11.07.2024 to 12.07.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	8.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	12.8	80


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Sampling By	Mr. Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Plant Control Room Area
Sampling Date	11.07.2024 to 12.07.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	55.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	28.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	7.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	11.6	80


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Sampling By	Mr.Biman Patra
Instrument Used	Respirable Dust Sampler, Fine Particulate Sampler, Gaseous Attachment
Sampling Point	Near Guest House
Sampling Date	11.07.2024 to 12.07.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	51.8	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	26.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	6.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	10.2	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	Near Pneumatic Jig Stack Area
Sampling Date	11.07.2024 to 12.07.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	54.2	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.4	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	6.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	10.4	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	11.07.2024

ANALYSIS RESULT

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	302	7.0	41.8

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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	11.08.2024 to 12.08.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	66.7	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	9.3	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	13.5	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	11.08.2024 to 12.08.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	67.1	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.8	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	10.5	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	14.3	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	11.08.2024 to 12.08.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	62.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.6	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	8.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	12.8	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	11.08.2024 to 12.08.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	55.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	28.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	6.6	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	10.2	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	Near Pneumatic Jig Stack Area
Sampling Date	11.08.2024 to 12.08.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65.3	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.2	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	8.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	12.6	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	11.08.2024

ANALYSIS RESULT

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	311	8.21	47.4

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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	12.09.2024 to 13.09.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.3	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	8.2	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	11.5	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	12.09.2024 to 13.09.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.9	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	8.4	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	12.8	80

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12:09:2024

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: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

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

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



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.


An ISO 9001-2015 & OHSAS 45001:2018 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 & NABL Accredited Laboratory

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	12.09.2024 to 13.09.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.7	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	9.7	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	13.8	80


Authorized Signatory

Notes:

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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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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	12.09.2024 to 13.09.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	52.9	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.6	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	<4.0	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	<9.0	80

Authorized Signatory

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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	12.09.2024 to 13.09.2024

ANALYSIS RESULT

Parameter	Unit	Result	NAAQ Standard
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	60.6	100
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.5	60
Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	8.8	80
Nitrogen Oxides (NO _x)	$\mu\text{g}/\text{m}^3$	12.5	80

Authorized Signatory

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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	12.09.2024

ANALYSIS RESULT

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	32	7.44	45.8

Authorized Signatory

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E-mail: cemclab@yahoo.in



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

31st July 2024

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

3261

Recognition Letter

To,

The Head of Laboratory,
M/s Centre For Envotech and Management Consultancy Pvt. Ltd.
Plot No.-800/1274, Johal, Pahal,
Bhubaneswar-752101, Odisha.

Subject: Recognition of M/s Centre For Envotech and Management Consultancy Pvt. Ltd. Plot No.-800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha as Environmental laboratory under the Environmental (Protection) Act- 1986- reg.

Sir,

With reference to your application dated 23/01/2024 along with acceptance of the terms & conditions of the guidelines for recognition of environmental laboratories under the Environmental (Protection) Act, 1986, submitted to Central Pollution Control Board (CPCB), the Competent Authority of CPCB has accorded approval for renewal of recognition of Environmental laboratory and Govt. Analysts. Subsequently, **M/s Centre For Envotech and Management Consultancy Pvt. Ltd, Plot No.-800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha** shall be notified considering the current requirement of mandatory accreditation / certifications of the laboratory **with a validity up to 22/07/2027 (for three years), subject to validity of ISO/IEC 17025 and IS/ISO 45001.**

2. The following analysts have been approved as Government Analysts:

1. Dr. Bidyut Kumar Patra
2. Ms. Mitali Rout
3. Ms. Bisnupriya Das

3. The laboratory should compulsorily follow the accepted terms and conditions and may undertake the following tests:

- a) **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, Flocculation Test (Jar Test), Odour, Salinity, Settleable Solids and Sludge Volume Index(SVI).
- b) **Inorganic (General and Non-metallic):** Acidity, Alkalinity, Ammonical Nitrogen, Chloride, Chlorine Residual, Dissolved Oxygen, Fluoride, Total Hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Carbon Dioxide, Cyanide, Silica, Sulphide and Sulphite.
- c) **Inorganic (Trace Metals):** Boron, Cadmium, Calcium, Total Chromium, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio(SAR), Zinc, Arsenic, Aluminium, Barium, Cobalt, Manganese, Selenium, Silver and Vanadium.
- d) **Organics (General) and Trace Organics:** Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenolic Compounds, Pesticides (each) (Organo-Chlorine and Organo Nitrogen-Phosphorus), Carbon/Nitrogen Ratio, Organic Carbon (in Solid), Poly-Chlorinated Biphenyl (PCB's) each, Polynuclear Aromatic Hydrocarbon (PAH) and Total Organic Carbon(TOC).
- e) **Microbiological Test:** Total Coliform, Faecal Coliform, *E. coli*, Faecal Streptococci and Total Plate Count.
- f) **Toxicological Tests:** Bioassay Method for Evaluation of Toxicity Using Fish (90% survival of fish after 96 hrs in 100% effluent) and Measurement of toxicity factor using Zebra fish (dimensionless toxicity test).

Contd.

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, New Delhi - 110032

दूरभाष/Tel: 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

- g) **Biological Test:** Benthic Organism Identification and Count, Macrophytic Identification and Planktonic Identification Count.
 - h) **Characterization of Hazardous Waste:** Preparation of Leachate (TCLP Extract/Water Extract), Ignitability (Flash Point) and Measurement of Heavy Metals/Pesticides in the Waste/Leachate.
 - i) **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, Sulphate, Total Organic Carbon (TOC) and Water Holding Capacity.
 - j) **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter (PM₁₀), Ammonia, Carbon monoxide, Fluoride, Lead, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene & others and PM_{2.5}.
 - k) **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Fluoride(Particulate), Fluoride(Gaseous) and Total Hydrocarbon.
 - l) **Noise Level:** Noise level measurement (20 to 140 dba) and Ambient Noise & Source Specific Noise.
 - m) **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity and Rain Fall.
4. The laboratory shall compulsorily participate in the Analytical Quality Control (AQC) Exercise conducted by the CPCB to ascertain the capability of the laboratory and analysts. The lab shall submit quarterly progress report on the sample analysis carried out to CPCB.
 5. The surprise inspection / periodic surveillance of the recognized environment laboratory will be undertaken to assess its proper functioning systematic operation and reliability of data generated at the laboratory by a Joint Team as per the Notification.
 6. The laboratory should have the mandatory requisite accreditation and certificate of the ISO: 17025 and ISO:45001 as per rules. This recognition is subject to such accreditations and renewals as applicable and 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.
 7. **M/s Centre For Envotech and Management Consultancy Pvt. Ltd, Bhubaneswar, Odisha** is required to apply for further renewal of recognition through online using CPCB web portal (<https://cpcbepalab.in/epalab>) before expiry of recognition with mandatory accreditation / certification concerned.

Yours faithfully,

K. P. 31/7/24

(Dr. K. Ranganathan)
Scientist-E & Divisional Head
Instrumentation laboratory

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रवाही जल एवं उपकरणों प्रयोगशाला
Dr. Head-Water & Instrumentation Laboratory
केन्द्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
(Min. Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

मान्यता पत्र

सेवा में,

प्रयोगशाला प्रमुख,
मैसर्स सेंटर फॉर एनवोटेक एंड मैनेजमेंट कंसल्टेंसी प्राइवेट लिमिटेड लिमिटेड,
प्लॉट नं.-800/1274, जोहल, पहल,
भुवनेश्वर-752101, ओडिशा।

विषय: पर्यावरण(संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरणीय प्रयोगशाला के रूप में मैसर्स सेंटर फॉर एनवोटेक एंड मैनेजमेंट कंसल्टेंसी प्राइवेट लिमिटेड लिमिटेड, प्लॉट नं.-800/1274, जोहल, पहल, भुवनेश्वर-752101, ओडिशा की मान्यता के बारे में।

महोदय,

केंद्रीय प्रदूषण नियंत्रण बोर्ड(के.प्र.नि.बोर्ड) को पर्यावरण(संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरण प्रयोगशालाओं की मान्यता के लिए दिशानिर्देशों के निबंधन और शर्तों की स्वीकृति के साथ आपके दिनांक 23/01/2024 के प्रस्तुत आवेदन के संदर्भ में, के.प्र.नि.बोर्ड के सक्षम प्राधिकारी ने पर्यावरण प्रयोगशाला और सरकार के विश्लेषक की मान्यता के नवीनीकरण को अनुमोदन प्रदान किया है। तत्पश्चात, मैसर्स सेंटर फॉर एनवोटेक एंड मैनेजमेंट कंसल्टेंसी प्राइवेट लिमिटेड लिमिटेड, प्लॉट नं.-800/1274, जोहल, पहल, भुवनेश्वर-752101, ओडिशा को भारत की राजपत्र अधिसूचना में प्रयोगशाला की अनिवार्य प्रत्यायन/प्रमाणन की वर्तमान अपेक्षा को ध्यान में रखते हुए दिनांक 22/07/2027 (तीन साल) तक आईएसओ/आईसी 17025 और आईएस/आईएसओ 45001 की वैधता के साथ अधिसूचित किया जाएगा।

2. निम्नलिखित विश्लेषकों को सरकारी विश्लेषक के रूप में अनुमोदित किया गया है:

1. डॉ विद्युत कुमार पात्रा
2. सुश्री मिताली राऊत
3. सुश्री बिसुप्रिया दास

3. प्रयोगशाला अनिवार्य रूप से स्वीकृत निबंधन और शर्तों का पालन करते हुए निम्नलिखित परीक्षणों करेगी:

- क. **भौतिक परीक्षण:** चालकता, रंग, पीएच, स्थिर और वाष्पशील ठोस, कुल ठोस, कुल विलीन ठोस, कुल निलंबित ठोस, आविलता, तापमान, वेग एवं निर्वहन औद्योगिक बहिःस्राव धारा का विसर्जन मापन, फ्लोक्यूलेशन टेस्ट (जार टेस्ट), गंध, लवणता, निपटान योग्य ठोस और आपंक वॉल्यूम इंडेक्स (एसवीआई)।
- ख. **अकार्बनिक (सामान्य और गैर-धात्विक):** अम्लता, क्षारीयता, अमोनिकल नाइट्रोजन, क्लोराइड, क्लोरीन अवशिष्ट, विलीन ऑक्सीजन, फ्लोराइड, कुल कठोरता, कुल केजेल्डहल नाइट्रोजन (टीकेएन), नाइट्राइट नाइट्रोजन, नाइट्रेट नाइट्रोजन, फॉस्फेट, सल्फेट, कार्बन डाइऑक्साइड, साइनाइड, सिलिका, सल्फाइड और सल्फाइट।
- ग. **अकार्बनिक (सूक्ष्म मात्रिक धातु):** बोरान, कैडमियम, कैल्शियम, टोटल क्रोमियम, क्रोमियम हेक्सावैलेंट, तांबा, लोहा, सीसा, मैग्नीशियम, पारा, निकल, पोटेशियम, सोडियम, सोडियम अवशोषण अनुपात (एसएआर), जिंक, आर्सेनिक, एल्युमीनियम, बेरियम, कोबाल्ट, मैंगनीज, सेलेनियम, सिल्वर और वैनेडियम।
- घ. **ऑर्गेनिक्स (सामान्य) और ट्रेस ऑर्गेनिक्स:** बायोकेमिकल ऑक्सीजन डिमांड (बीओडी), रासायनिक ऑक्सीजन डिमांड (सीओडी), तेल और ग्रीस, फेनोलिक यौगिक, कीटनाशक (प्रत्येक) (ऑर्गेनो-क्लोरीन और ऑर्गेनो नाइट्रोजन-फॉस्फोरस), कार्बन/नाइट्रोजन अनुपात, ऑर्गेनिक कार्बन (ठोस में), पॉली-क्लोरिनेटेड बाइफेनाइल (पीसीबी) (प्रत्येक), पॉलीन्यूक्लियर एरोमैटिक हाइड्रोकार्बन (पीएच) और टोटल ऑर्गेनिक कार्बन (टीओसी)।
- ङ. **सूक्ष्म जीवविज्ञान परीक्षण:** टोटल कोलीफॉर्म, फीकल कोलीफॉर्म, ई.कोली, फीकल स्ट्रेप्टोकोक्की और टोटल प्लेट काउंट।
- च. **आविष विज्ञानी परीक्षण:** मछली का उपयोग करके विषाक्तता के मूल्यांकन के लिए जैव परख विधि (100% प्रवाह में 96 घंटे के बाद मछली का 90% जीवित रहना) और ज़ेबरा मछली (आयाम रहित विषाक्तता परीक्षण) का उपयोग करके विषाक्तता कारक का मापन।

जारी..

- छ. **जैविक परीक्षण:** बैथिक जीव की पहचान और गणना, मैक्रोफाइटिक पहचान और प्लवक पहचान गणना।
- ज. **परिसंकटमय अपशिष्ट का लक्षण वर्णन:** निक्षालक (टीसीएलपी अर्क/जल अर्क), तैयार करना, ज्वलनशीलता (फ्लैश प्वाइंट) और अपशिष्ट में निक्षालक में भारी धातुओं/पीड़कनाशियों का सापेक्ष।
- झ. **मृदा/आपंक/तलछट और ठोस अपशिष्ट:** बोरॉन, कटियन एक्सचेंज क्षमता (सीईसी), विद्युत चालकता, नाइट्रोजन (उपलब्ध), कार्बनिक कार्बन/पदार्थ (रासायनिक विधि), पीएच, फास्फोरस (उपलब्ध), फॉस्फेट (ऑर्थो), फॉस्फेट (कुल), पोटेशियम, मृदा के अर्क में एसएआर, सोडियम, मृदा की नमी, टीकेएन, कैलोरी मान, अमोनिया, कैल्शियम, क्लोराइड, रंग, भारी धातु, मैग्नीशियम, नाइट्रेट, सल्फेट, कुल कार्बनिक कार्बन (टीओसी) और जल धारण क्षमता।
- ञ. **परिवेशी वायु/पलायक उत्सर्जन:** नाइट्रोजन डाइऑक्साइड (एनओ₂), सल्फर डाइऑक्साइड (एसओ₂), कुल निलंबित विविक्त कण, श्वसन योग्य निलंबित कण पदार्थ (पीएम₁₀), अमोनिया, कार्बन मोनोऑक्साइड, फ्लोराइड, सीसा, ओजोन, बेजीन टोल्यूनि ज़ाइलीन (बीटीएक्स), पॉलीसाइक्लिक एरोमैटिक हाइड्रोकार्बन (पीएएच) बेंजो-ए-पाइरिन और अन्य और पीएम_{2.5}।
- ट. **चिमनी गैसें/स्रोत उत्सर्जन:** पार्टिकुलेट मैटर, सल्फर डाइऑक्साइड, वेग और प्रवाह, कार्बन डाइऑक्साइड, कार्बन मोनोऑक्साइड, तापमान, ऑक्सीजन, नाइट्रोजन के ऑक्साइड, एसिड धुंध, अमोनिया, फ्लोराइड (पार्टिकुलेट), फ्लोराइड (गैसीय) और कुल हाइड्रोकार्बन।
- ठ. **रव (शोर) स्तर:** शोर स्तर माप (20 से 140 डीबीए) और परिवेश रव में स्रोत विशिष्ट रव।
- ड. **मौसम संबंधी:** परिवेश का तापमान, हवा की दिशा, हवा की गति, सापेक्ष आर्द्रता और वर्षा।
4. प्रयोगशाला और विश्लेषकों की क्षमता का पता लगाने के लिए प्रयोगशाला को के.प्र.नि.बोर्ड द्वारा आयोजित विश्लेषणात्मक गुणवत्ता नियंत्रण एक्जूसी (अभ्यास में अनिवार्य रूप से भाग लेना होगा। प्रयोगशाला किए गए नमूना विश्लेषण पर के.प्र.नि.बोर्ड को तिमाही प्रगति रिपोर्ट प्रस्तुत करेगी।
5. अधिसूचना के अनुसार, एक संयुक्त दल द्वारा मान्यता प्राप्त पर्यावरण प्रयोगशाला का औचक निरीक्षण/आवधिक निगरानी उस के उचित कामकाज, व्यवस्थित प्रचालन और प्रयोगशाला में तैयार किए गए आंकड़ों की विश्वसनीयता का निर्धारण करने के लिए की जाएगी।
6. प्रयोगशाला के पास नियमानुसार ISO/IEC: 17025)2017 (और IS/ ISO: 45001 का अपेक्षित प्रत्यायन और प्रमाण पत्र होना चाहिए। यह मान्यता यथा लागू प्रत्यायन और नवीनीकरण के अधीन है और किसी भी निबंधन और शर्तों के गंभीर गैर-अनुपालन के मामले में, प्रयोगशाला को न्यूनतम दो साल की अवधि के लिए ब्लैकलिस्ट किया जा सकता है और सरकार की ओर से अनधिकृत तरीके से कार्य करने के लिए, यथा लागू सिविल/आपराधिक कार्यवाही शुरू की जा सकती है।
7. **मैसर्स सेंटर फॉर एनवोटैक एंड मैनेजमेंट कंसल्टेंसी प्राइवेट लिमिटेड लिमिटेड, भुवनेश्वर, ओडिशा को संबंधित अनिवार्य प्रत्यायन/प्रमाणीकरण के साथ मान्यता की समाप्ति से पूर्व केंद्रीय प्रदूषण नियंत्रण बोर्ड के वेबपोर्टल (<https://cpcebopalab.in/epalab>) का उपयोग कर के ऑनलाइन मान्यता के नवीनीकरण के लिए आवेदन करना अपेक्षित है।**

भवदीय,

K. R. 31/7/24

डॉ. के. रंगनाथन
वैज्ञानिक-ई एवं प्रभागप्रमुख
उपकरणीय प्रयोगशाला

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रचारी जल एवं उपकरणीय प्रयोगशाला
Div. Head-Water & Instrumentation Laboratory
केंद्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
पर्यावरण, वन एवं जलवायु परिवर्तन विभाग, भारत सरकार
(MoE Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Perivash Bhawan, East Arjun Nagar, Delhi-110032



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-13501

Issue Date: 15/04/2024

Valid Until:

14/04/2026

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 Entity: CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

Annexure-4

An ISO 9001:2015 & OHSAS 45001:2018 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 & NASL Accredited Laboratory

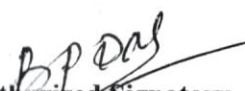
AMBIENT NOISE MONITORING TEST REPORT

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	11.04.2024

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	72.7	66.8

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


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.
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Regd. Office: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in.

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



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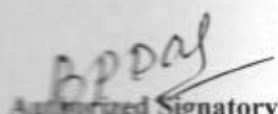
AMBIENT NOISE MONITORING TEST REPORT

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	15.05.2024 to 16.05.2024

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	73.6	67.8

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


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	12.06.2024

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	73.2	69.2

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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Seal of 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.

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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	11.07.2024

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	72.3	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

B.P. Das
Authorized Signatory

Notes:

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Seal of Laboratory

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842

E-mail: cemclab@yahoo.in



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2015 & OHSAS 45001:2018 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 & NABL Accredited Laboratory

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	11.08.2024 to 12.08.2024

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	68.5	63.1

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


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: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

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

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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	12.09.2024

MONITORING RESULT

Sl. No.	Locations	dB(A) Day time	dB(A) Night time
1	Inside Plant Area	72.9	69.0

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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