

**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 107/2025**

IN THE MATTER OF:

Mantu Soni

...Applicant

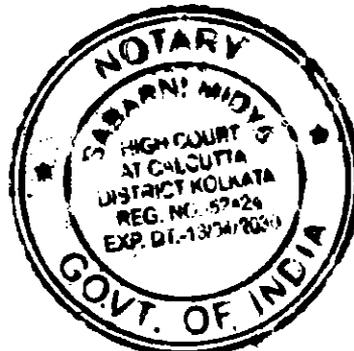
Versus

State of Jharkhand & Ors.

...Respondent

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**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 107/2025**

*Filed by
Mamunul
Advocate*

IN THE MATTER OF:

Mantu Soni ...Applicant

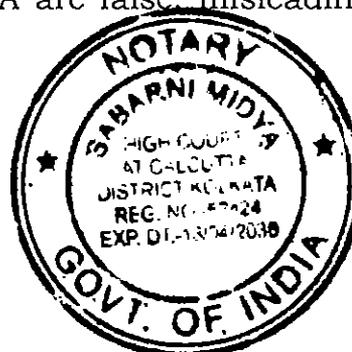
Versus

State of Jharkhand & Ors. ...Respondent

**REPLY ON BEHALF OF THE RESPONDENT NO. 4 (NTPC Ltd., PAKRI
BARWADIH COAL MINING PROJECT (NTPC Ltd., PBCMP).**

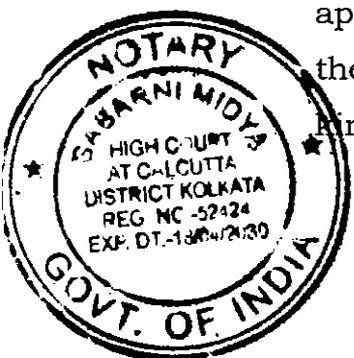
MOST RESPECTFULLY SHOWETH:

1. The Answering Respondent No.4 is filing the present Reply to the captioned Original Application by this Hon'ble Tribunal based on the Letter Petition dated 23.01.2025 submitted by the Applicant before the Hon'ble NGT, Principal Bench, New Delhi. The Hon'ble Principal Bench vide Order dated 08.05.2025 was pleased to issue notice in the matter and further transferred the matter to the Eastern Zonal Bench, Kolkata of this Hon'ble Tribunal.
2. At the outset, it is submitted that the present application is based on vague, baseless and unfounded allegations, lacking any cogent evidence or legal foundation, and is primarily motivated by extraneous considerations rather than genuine environmental concern. Therefore, each and every allegation, contention raised by the Applicant in the captioned OA are false, misleading and hence vehemently denied in *toto*.



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3. NTPC Limited is India's largest integrated power utility and a Maharatna Public Sector Undertaking entrusted with the responsibility of generating affordable, reliable, and uninterrupted electricity to meet the growing demands of a developing nation. As of date, NTPC contributes a substantial share to the national grid, operating coal-based, gas-based, and renewable energy projects across the country. Coal mining forms a directly allied activity essential for sustaining thermal power generation, particularly in regions where renewable sources have not yet reached grid parity. The Pakri Barwadih Coal Mining Project, being a captive coal block allocated to NTPC, plays a critical role in ensuring a continuous and cost-effective supply of coal for power generation, thereby serving the wider public interest.
4. Any disruption, obstacle, or unwarranted restriction on the lawful mining or transportation of coal by NTPC has a direct and adverse bearing on the nation's energy security. In a country like India where affordable electricity underpins essential services such as healthcare, education, agriculture, and industry, hindering the operations of NTPC—especially on the basis of unverified, misleading, or motivated allegations—can have severe public consequences. Therefore, any such attempts, including the present complaint, which seek to paralyse strategic energy infrastructure by raising speculative claims, must be viewed with utmost seriousness and discouraged in the strongest terms in the interest of public good and national development
5. Keeping in view the utter misleading allegations based on pure apprehensions placed by the Applicant before this Hon'ble Tribunal, the Respondent No.4 is placing the following submissions for the kind consideration of this Hon'ble Tribunal:



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I. Applicability and Scope of Forest Clearance :

- A. The Forest (Conservation) Act, 1980 (hereinafter '**FC Act**') is a regulatory statute enacted with the primary object of conserving forest land by restricting its use for non-forest purposes without prior approval of the Central Government. As per Section 2 of the Act, no forest land or portion thereof can be diverted or used for any non-forest purpose without the prior approval of the Central Government. Most importantly the preamble of the Act clearly states "*An Act to provide for the conservation of Forest and for matters connected therewith or ancillary or incidental thereto.*". Further, for ease of reference, Section 2 of the FC Act is produces as follows:

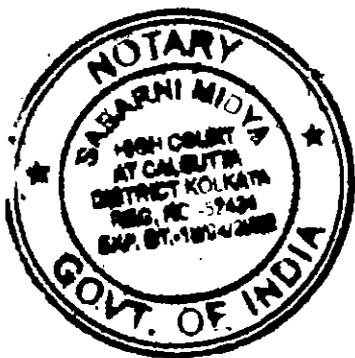
"Notwithstanding anything contained in any other law for the time being in force in a State, no State Government or other authority shall make, except with the prior approval of the Central Government, any order directing—

(i) that any reserved forest shall cease to be reserved;

(ii) that any forest land or any portion thereof may be used for any non-forest purpose;

(iii) that any forest land or any portion thereof may be assigned by way of lease or otherwise to any private person or to any authority, corporation, agency or any other organisation not owned, managed or controlled by Government;

(iv) that any forest land or any portion thereof may be cleared of trees which have grown naturally in that land or portion, for the purpose of using it for reforestation."



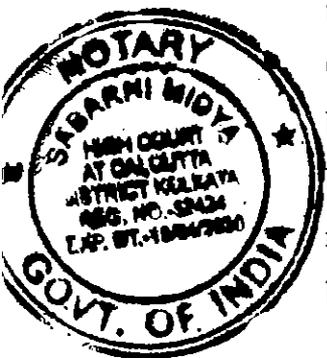
- B. The preamble of the Act makes it entirely clear that the main purpose of the act is restricted to conservation of forest and related

activities. In the present case, the Answering Respondent has been granted Forest Clearance for the diversion of 1026.438 hectares of forest land for mining operations. It is submitted that the provisions of the Forest (Conservation) Act, 1980 and the conditions stipulated under the said Forest Clearance are applicable only to the extent of this notified forest land. Activities such as road transportation of coal occurring beyond the limits of this forest land, on public roads and village roads, do not fall within the purview of the Act, and hence, any allegation of breach of forest clearance conditions in respect of non-forest land is not legally sustainable.

- C. The Applicant has referred to Condition No. 9 of the Forest Clearance (FC) and alleged its violation. For clarity and completeness, the said Condition 9 is reproduced herein:

"The coal evacuation will be done through high speed conveyor of 20 metre width running at a height sufficient to allow all tall wild animals including elephants. The installation of such system will be undertaken under the supervision of CWLW of the State."

- D. The conveyor system is fully operational within the forest zone, and the specified height has been ensured under the supervision of the Chief Wildlife Warden as required under the FC. This condition has been duly complied with, and there is no violation as alleged. NOC by CWLW regarding minimum height of belt conveyor to be maintained is attached as **Annexure-1**. Recent photographs of the belt conveyor is attached as **Annexure-2**.

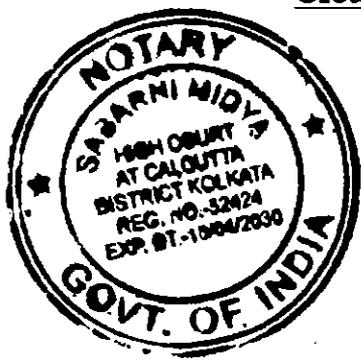


- E. It is pertinent to note that conveyor systems of a coal mine, by their very nature, are site-specific and restricted in reach. It is not feasible to extend a conveyor from the mine to distant railway sidings or plants located hundreds of kilometres away, beyond the

forest area. Consequently, road transport becomes an essential component in the coal evacuation process, especially for linking the last-mile connectivity between the mine and the railway siding with adopting all pollution control measures and protecting flora and fauna. While Answering Respondent is adopting all pollution control measures as prescribed in Environment Clearance (EC) and its subsequent amendments have deposited Rs 135.67 Cr in forest CAMPA account for wild life management plan which is being implemented by the State Forest Department.

- F. The Pakri Barwadih Coal Mining Project is situated in a geographically distinct area where coal is found primarily within forest zones. Once extracted, coal has to be transported to distant loading points located at 13 Km away from the mine infrastructure including state highways and village roads. These roads lie beyond the forest land diverted to Answering Respondent and hence do not fall strictly under the purview of the Forest (Conservation) Act, 1980 or even if exist then the roads are constructed after appropriate permissions/approvals for public usage.'
- G. In furtherance of this need, the Ministry of Environment, Forest & Climate Change (MoEF&CC), through Notification dated 02.01.2025, has explicitly permitted road transportation of coal in covered trucks which, among other conditions, NTPC has strictly adhered to and has ensured proper environmental safeguards during such transportation.

II. Compliance with Forest Clearance and Environmental Clearance Conditions:

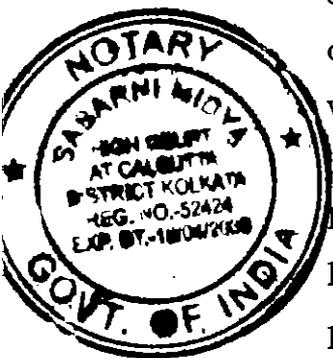


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H. Apart from the conditions stipulated under the Forest Clearance, it is the Environmental Clearance (EC) granted under the provisions of the Environment (Protection) Act, 1986 that comprehensively governs all environmental compliances associated with a project, including those that extend beyond forest land. The EC lays down binding conditions relating to air quality, water management, transportation, dust suppression, noise, public health and safety, and is applicable across all zones of project activity, whether within or outside forest areas. In the present case, the Answering Respondent has been granted EC and subsequent amendments from time to time, which expressly permit road transportation of coal till 31.03.2026. The Answering Respondent has remained fully compliant with all terms of the EC, including implementation of speed governors, covered trucks, dust mitigation systems, air quality monitoring, and water sprinkling mechanisms, thereby ensuring adherence to prescribed environmental safeguards in all non-forest areas as well. Thus, there is no illegality or irregularity in the road transportation of coal. The true copy of the 12th Amendment to EC dated 02.01.2025 issued by Ministry of Environment, Forest and Climate Change, GoI is attached herewith and marked as **Annexure 3**.

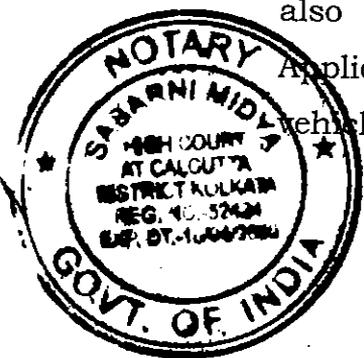
I. To address the issue of road usage and its environmental implications, the total length of roads used for coal transport is approximately 27.241 km. This includes 7.022 km of NTPC's dedicated service route along the conveyor, 6.217 km of haul roads within the mine lease, 0.468 km outside the lease, 8.296 km of Jharkhand State Highway No. 7, and 5.238 km of village roads. Further, the road width varies between 7 to 8 meters and can handle a maximum capacity of 30,000 Passenger Car Units (PCU) per day. The actual traffic observed, including NTPC vehicles,



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ranges from 2,258 to 18,243 PCU per day. The PCU load from NTPC trucks is calculated at merely 750 PCU/day (250 trucks per day with 3 PCU per truck as per IRC: 64-1990), which is only 2.5% of the total road capacity. The relevant portion of the report is attached as **Annexure 4**. The entire report will be produced at the time of hearing if necessary.

- J. The roads forming the subject matter of the present application, including the segment of Jharkhand State Highway No. 7 and adjoining village roads, are public infrastructure that predate the commencement of coal transportation by NTPC. These routes have historically been used by local residents, commercial traffic, and various other non-NTPC vehicles for several decades. Any unfortunate mishaps, accidents, or wildlife movement that may have occurred along these roads are not unique to or caused by the limited and regulated operations of the Answering Respondent. In fact, the data clearly shows that NTPC's share of daily traffic is only a fraction—approximately 2.5%—of the road's maximum capacity. Therefore, any alleged incident or environmental concern that is otherwise pre-existing or systemic in nature cannot, by any stretch, be attributed solely or selectively to NTPC's operations.
- K. The inference from the above data is clear and unambiguous. NTPC's contribution to road traffic is minimal and within permissible limits. There is no congestion caused due to NTPC's operations, and the claim of public nuisance or increased accident risk due to NTPC is unfounded.
- L. The allegations of frequent accidents and wildlife disturbances are also without basis. There is no specific instance cited by the Applicant linking any accident directly to NTPC's coal transport vehicles. Moreover, the roads used are public highways where

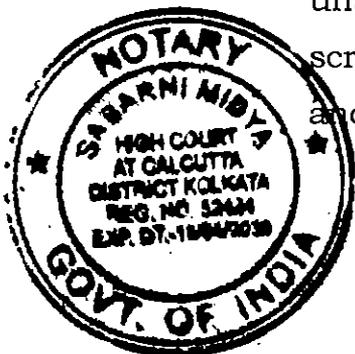


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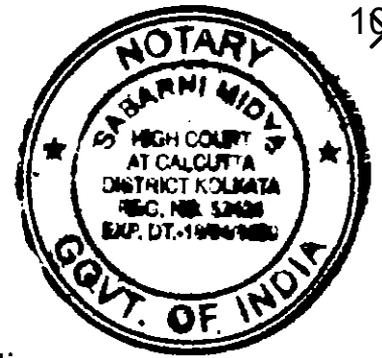
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vehicular movement by others also takes place. NTPC's contribution, as demonstrated above, is nominal.

- M. As part of its commitment to environmental responsibility, NTPC has implemented comprehensive mitigation measures. All trucks are covered with tarpaulins, speed governors are installed, water sprinkling is done along the transport route, and dust suppression systems are operational. Continuous air quality monitoring is also conducted.
- N. Even the pollution levels recorded along the transport route remain well within CPCB limits. The ambient PM10 levels range between 70.39 to 93.57 $\mu\text{g}/\text{m}^3$, PM2.5 between 30.95 to 40.51 $\mu\text{g}/\text{m}^3$, SO2 between 13.08 to 16.45 $\mu\text{g}/\text{m}^3$ and NO2 between 16.87 to 47.37 $\mu\text{g}/\text{m}^3$. All these values are within the prescribed national ambient air quality standards. The monitoring report is attached as **Annexure 5**.
- O. Regarding wildlife impact, the Applicant has cited certain villages allegedly affected by coal transport. An analysis of those villages shows that 4 out of 11 mentioned villages have already been diverted by the Government for mining activities. The remaining villages are situated at distances ranging from 10 km to 36 km from the PBCMP. This clearly establishes that NTPC's transport routes do not interfere with critical wildlife zones.
- P. The allegation of NTPC influencing forest or transport authorities to allow unlawful activities is wholly false, defamatory and unsubstantiated. All operations of NTPC are subject to audit and scrutiny by MoEF&CC, CPCB, State PCB, and Forest Departments and the Answering Respondent has been complainant throughout.



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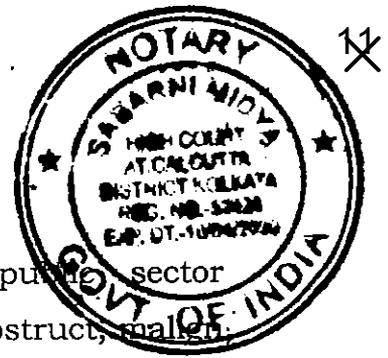


III. Allegations are Speculative and Unsubstantiated:

- Q. The present application, on the contrary, relies on mere assumptions and newspaper cuttings with no verifiable data. No specific date, incident, or document has been produced by the Applicant to prove any non-compliance by NTPC.
- R. The Applicant has not cited any documentary evidence or regulatory finding to support his claims. The documents relied upon, such as news articles or public speculation, pertain to areas either far removed from NTPC's operational zone or already earmarked for coal mining activity by the competent authorities.
- S. It is essential to appreciate the role of coal transportation in national energy planning. Thermal power generation still constitutes over 55% of India's total energy mix. Any disruption in coal evacuation directly affects power production and consequently impacts healthcare, education, industry, and domestic sectors. In areas where conveyor or rail infrastructure is not yet feasible, road transport remains the only viable means. The law recognizes this reality and provides accordingly in the EC and MoEF notifications. NTPC's activities are, therefore, fully aligned with both legal permissions and national interest.

IV. Conduct and Bona Fides of the Applicant:

- T. The Respondent respectfully submits that the present application is not a bona fide environmental interest litigation, but yet another instance in a long history of vexatious, obstructive, and malafide actions by the Applicant, Mr. Mantu Soni. His conduct, both before courts of law and in the public domain, demonstrates a consistent



pattern of agenda-driven campaigns targeting public sector undertakings, particularly NTPC, with the intent to obstruct, stall and delay legitimate infrastructure operations.

U. A brief summary of cases against the Applicant as unearthed by the Answering Respondent with necessary details are reproduced below:

Sr. No.	Case/Proceeding Details	Offences / Allegations
1	Barkagaon P.S. Case No. 167/2015 filed against the Applicant	IPC Section 147, 148, 149, 341, 342, 323, 325, 307, 332, 333, 337, 379, 353, 188, 153A, 420, 427, 435, 120B; Section 27 of the Arms Act.
2	Barkagaon P.S. Case No. 226/2016 filed against the Applicant	IPC Section 147, 148, 149, 341, 342, 353, 120B, 188, 109; MMDR Act Section 21(3); Mines Act Section 42
3	Barkagaon P.S. Case No. 135/2016 filed against the Applicant	IPC Section 147, 148, 149, 341, 342, 323, 332, 333, 337, 353, 153AA, 307, 120B, 427, 504
4	Barkagaon P.S. Case No. 76/2017 filed against the Applicant	IPC Section 115, 118, 385, 387, 307, 120B; Arms Act Section 25(1-B)(a), 26, 35

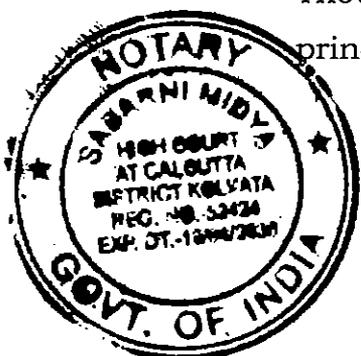
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Also, the details of cases filed by the Applicant against the Answering Respondent is as follows:

5	W.P. (PIL) No. 1248/2022 (Jharkhand High Court) Filed by Applicant against NTPC	Alleged 3000 Cr land compensation scam by NTPC	Dismissed with 1,00,000 cost for concealment of criminal record; SLP (Crl.) No. 10502/2024 dismissed by SC
6	W.P.(C) No. 3614/2023 Filed by Applicant against NTPC	Alleged NTPC forged forest clearance documents	Withdrawn by Petitioner

V. Apart from the above, the Petitioner has also made false and defamatory allegations through the media, including in relation to the Dumuhani Nala issue. These claims were subsequently proven baseless, as the Ministry of Environment and the Divisional Forest Officer's orders were successfully defended by NTPC before the Hon'ble NGT, Kolkata. Such conduct reveals a persistent attempt to weaponize public platforms and legal forums to stall lawful public infrastructure works.

W. The Hon'ble Supreme Court in *State of Jharkhand v. Shiv Kumar Sharma & Ors.*, 2022 SCC Online SC 1541, held that the High Court must be satisfied with the credentials of a person filing a PIL. Though the present matter is before the Hon'ble Tribunal, the principle that a litigant must come with clean hands applies with

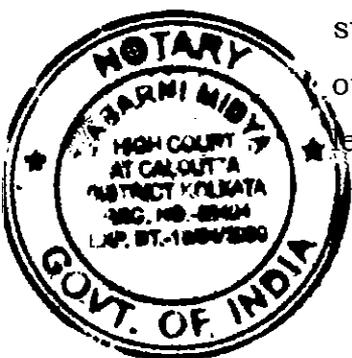


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equal force. The Applicant's antecedents and prior misuse of legal processes render his standing suspect.

- X. In light of the above, the Petitioner's conduct reveals a pattern of judicial abuse, deliberate concealment, and disruptive intent. His actions fail to meet the threshold of a genuine public interest litigant and undermine the very object of environmental justice mechanisms.
- Y. A perusal of the above compliance would go on to show that the Answering Respondent is well aware of its obligations as per the prevailing environmental/Forest law and guidelines and is entirely complain with all such conditions. The Answering Respondent is duty bound to maintain utmost safety and is thus taking active steps in mitigating huge risks of accidents/mishaps by undertaking several activities as stated above.
- Z. Keeping in view the above submissions and the material placed on record, it is respectfully submitted that the allegations levelled by the Applicant are wholly misleading, misconceived, and bereft of factual or legal basis. The present proceedings appear to have been initiated with the sole intent of harassing the Answering Respondent and obstructing its lawful and nationally significant operations under the guise of environmental concern. The Applicant's personal agenda and prior conduct only reaffirm this conclusion.
- AA. The Answering Respondent reserves its right to make further submissions, file additional affidavits or documents, and place any other relevant material on record, as and when necessary, with the leave of this Hon'ble Tribunal.



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BB. In view of the foregoing, the present Original Application is liable to be dismissed with exemplary costs upon the Applicant for abuse of the process of this Hon'ble Tribunal and for seeking to misuse environmental jurisdiction for extraneous motives.

Birendra Kumar

RESPONDENT No.4

(NTPC Limited)

वीरेन्द्र कुमार / BIRENDRA KUMAR

अपर महाप्रबंधक / ADDL. GENERAL MANAGER

(पर्यावरण प्रबंधन) / (ENVIRONMENT MANAGEMENT)

कोयला खनन परियोजनाएँ / COAL MINING PROJECTS

एनटीपीसी लिमिटेड / NTPC Limited

हजारीबाग / HAZARIBAG

Through

Uttam Kumar Mandal

UTTAM KUMAR MANDAL

Advocate for the Answering Respondent No.4,

10, Old Post Office Street,

Room No. 110/1,

Kolkata - 700 001,

(M) : 9830424536/8777688137,

Office (Ph.) : 03322627467,

E- mail : advuttamkumar63@gmail.com.

Place: Kolkata

Dated: 14.07.2025



14 JUL 2025

Serial No. 15

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**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 107/2025**

IN THE MATTER OF:

Mantu Soni

...Applicant

Versus

State of Jharkhand & Ors.

...Respondent

AFFIDAVIT

I, Birendra Kumar, Son of Late Raghuram, aged about 51 years, working as Additional General Manager in the office of NTPC Limited, Pakri Barwadih Coal Mining Project, Site Office - Sikri, Post Office and Police Station - Barkagaon, District- Hazaribagh, Jharkhand 825311, presently camping at 10, Old Post Office Street, Room No. 110/1, Kolkata - 700001 do hereby solemnly affirm and state as under:

1. I am the Additional General Manager and authorized representative of the Answering Respondent No.4 Company and I am well conversant with the facts and circumstances of the case as such am competent to swear the present affidavit.
2. I say that I have read the contents of the above Reply and I have understood the contents of the same.
3. I say that the contents of the above Reply being filed by the Answering Respondent No.4 are based on the information available with the Answering Respondent in the normal course of business and believed by me to be true.

Identified by me

[Signature]
Advocate

Solemnly Affirmed & Declared
before me on identification

[Signature]

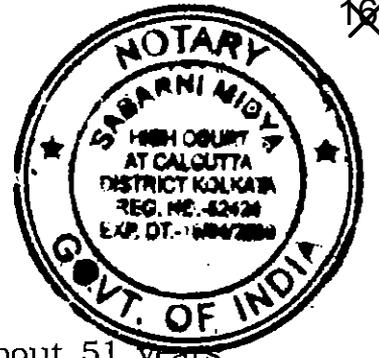
Sabarni Midya, Notary
Reg. No. 52424 Govt. of India
High Court at Calcutta.

Birendra Kumar

DEPONENT

बीरेन्द्र कुमार / BIRENDRA KUMAR
अपर महाप्रबंधक / ADDL. GENERAL MANAGER
(पर्यावरण प्रबंधन) / (ENVIRONMENT MANAGEMENT)
कोयला खनन परियोजनाएँ / COAL MINING PROJECTS
एनटीपीसी लिमिटेड / NTPC Limited
हजारीबाग / HAZARIBAG

14 JUL 2025



VERIFICATION

I, Birendra Kumar, Son of Late Raghuram, aged about 51 years, working as Additional General Manager in the office of NTPC Limited, Pakri Barwadih Coal Mining Project, Site Office - Sikri, Post Office and Police Station - Barkagaon, District- Hazaribagh, Jharkhand 825311, presently camping at 10, Old Post Office Street, Room No. 110/1, Kolkata - 700001, do hereby verify the contents of the above affidavit to be true to the best of my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Kolkata on this 14th day of July, 2025.

Identified by me

[Signature]
Advocate

Birendra Kumar

DEPONENT

वीरेन्द्र कुमार / BIRENDRA KUMAR
अपर महाप्रबंधक / ADDL. GENERAL MANAGER
(पर्यावरण प्रबंधन) / (ENVIRONMENT MANAGEMENT)
कोयला खनन परियोजनाएँ / COAL MINING PROJECTS
एनटीपीसी लिमिटेड / NTPC Limited
हजारिबाग / HAZARIBAG

**Solemnly Affirmed & Declared
before me on identification**

[Signature]
Sabarni Mistry, Notary
Reg. No.-52424 Govt. of India
High Court at Calcutta

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कार्यालय :- प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण - सह - मुख्य वन्य प्राणी प्रतिपालक, हज़ारबाग, राँची ।

पत्रांक :- 172(WC)10-11/355 दिनांक :- 15/7/10

सेवा में,

M/S A. Appendra Rao,
General Manager,
NTPC Ltd, PBCMP,
Hazaribag.

विषय :- मजदूरों का एक वन मंत्रालय भारत सरकार के पत्रांक - एफ नं. 8-56/2009 एफ सी दिनांक - 11.05.2010 की शर्त संख्या- 8 के अनुषंग के क्रम में Coal के Transportation हेतु Conveyer belt की ऊँचाई से संबंधित प्रस्ताव के संबंध में ।

प्रति :-
महोदय,

आपका पत्रांक - 7010/ जी एफ/ 2010, दिनांक - 10.6.2010

निम्नलिखित संदर्भ में प्रासंगिक पत्र द्वारा मजदूरों का एक वन मंत्रालय, भारत सरकार के पत्रांक - एफ. नं. 8-56/ 2009 एफ सी दिनांक - 11. 5. 2010 की शर्त संख्या 8 के अनुपालन के क्रम में Coal के परिवहन हेतु 20 मीटर चौड़ी High speed Conveyer Belt की ऊँचाई 5 मीटर रखने का प्रस्ताव दिया गया है । हाथी की पहुँच अधिकतम 17- 18' तक संभव है ।

अतः प्रस्तावित Conveyer belt की ऊँचाई कम से कम 6 (छह) मीटर रखी जाय ।

आपका विश्वासी,

प्रधान मुख्य वन संरक्षक,
जैव विविधता संरक्षण -सह -
मुख्य वन्य प्राणी प्रतिपालक,
हज़ारबाग, राँची ।

15/7/10
15/7

14/7/2010

**Translated copy of the NOC letter issued by PCCF, Wildlife and Wildlife
Warden, Jharkhand**

Office: Principal Chief Conservator of Forests, Wildlife conservation-cum-Chief
Wildlife Warden, Jharkhand, Ranchi

Letter no. 172(WL)10-11/355

Dated 15.07.2010

To,

M/s A Upendra Rao,
General Manager,
NTPC Ltd. PBCMP,
Hazaribag.

Subject: - Regarding proposal for height of the conveyor belt for transportation of
coal in compliance of the condition no. 8 of letter no. 8-56/2009FC dated
11.05.2010 issued by Ministry of Environment and Forests, Government of
India.

Reference: Your letter no. 7010/GM/2010, dated 16.6.2010

Dear Sir,

In reference to the subjected matter and relevant letter, in compliance of the
condition no. 8 of the letter issued by Ministry of Environment, Forest and Climate
Change vide letter no. F.No. 8-56/2009-FC Dated 11.05.2010, for transportation of
coal it has been proposed to maintain 20 meter width high speed conveyor belt at
height of 5 meter. It is possible that an elephant can reach height of 17'-18'.

Hence, the height of the proposed conveyor belt may be kept at least 6 meter.

Yours faithfully

Signed

Principal Chief Conservator of
Forests,
Wildlife conservation-cum-
Chief Wildlife Warden,
Jharkhand, Ranchi

Photographs Showing Conveyor System







सत्यमेव जयते

File No.: J-11015/692/2007-IA-II(M)
 Government of India
 Ministry of Environment, Forest and Climate Change
 IA Division



Dated 02/01/2025



To,

Sh. Navin Kumar
 M/s NTPC Mining Limited
 Ntpc Bhawan, Core-7, 7 Institutional Area, Lodhi Road, South East Delhi- 110003
 E-mail: env-mines@nml.co.in

Subject: Pakri Barwadih Coal Mining Project (area 3319.42 Ha having capacity 18 MTPA) by M/s NTPC Mining Limited located at Villages: Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih; District: Hazaribagh; State: Jharkhand – Grant of Amendment in Environmental Clearance – regarding

Sir/Madam,

This is with reference to your online application vide proposal No. IA/JH/CMIN/503899/2024 Dated 27.11.2024 along with CAF (Part A, B and C) seeking amendment in Environment Clearance accorded by the Ministry vide letter no. J-11015/692/2007-IA-II(M) dated 19.05.2009 and its subsequent amendment dated 30/10/2024, under the provisions of the EIA Notification, 2006 for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A0101JH5982710A
(ii) File No.	J-11015/692/2007-IA-II(M)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	1(a) Mining of minerals
(vi) Sector	Coal Mining
(vii) Name of Project	Amendment in Environment Clearance (EC) of Pakri Barwadih Coal Mining Project, NTPC Mining Limited
(viii) Location of Project (District, State)	HAZARIBAGH, JHARKHAND
(ix) Issuing Authority	MoEF&CC
(x) EC Date	19/05/2009
(xii) Applicability of General Conditions	NO

(xiii) Status of implementation of the project

3. The proposal was considered by EAC (Coal) in its 19th meeting held during December 10-11th, 2024. The project activity is listed at schedule no. 1(a) - Mining of minerals under Category "A" of the schedule of the EIA Notification, 2006. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

4. The instant proposal is for seeking amendment in Environment Clearance granted to M/s NTPC Limited vide letter no. J-11015/692/2007-IA-II(M) dated 19.05.2009, later transferred to M/s NTPC Mining Limited vide letter no. J-11015/692/2007-IA-II(M) dated 02.05.2024 for Pakri Barwadih Coal Mining Project (area 3319.42 Ha having capacity 18 MTPA) located at Villages: Barkagaon, Itij, Chiruadih, Urub, Chepa, Kalan, Nagri, Jugra, Sinduari, Churchu, Carahara, Sonbarsa, Pakri – Barwadih; District: Hazaribagh; State: Jharkhand.

5. Details of all the prior ECs including the EC for which amendment is sought are summarized as below:

S. No.	Details of Letter No.	Details of EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of Issuance	Status of Implementation
1	J-11015/692/2007-IA.II(M)	Fresh EC	15 MTPA	3319.42	19.05.2009	Production of 15 MTPA achieved during the year 2023-2024
2	-do-	Amendment in EC [Road transportation granted till 28.06.2018]	15 MTPA	3319.42	29.06.2016	Implemented
3	-do-	Amendment in EC [Specific Condition nos (iii), (vi) & (ix) and General Condition nos (ix) & (xiii)]	15 MTPA	3319.42	07.12.2017	Being implemented
4	-do-	Amendment in EC [Road transportation granted till 28.06.2020]	15 MTPA	3319.42 Ha	14.08.2018	Implemented
5	-do-	Amendment in EC [Road transport granted till 28.06.2022 and auto extended to 28.06.2023 in line with Covid notification of MOEF&CC]	15 MTPA	3319.42 Ha	10.11.2020	Implemented
6	-do-	Amendment in EC [Road transport granted till 31.10.2023]	15 MTPA	3319.42 Ha	16.08.2023	Implemented
7	-do-	Amendment in EC [Road transport granted till 31.01.2024]	15 MTPA	3319.42 Ha	09.11.2023	Implemented
8	-do-	Amendment in EC [Road transport granted till 31.07.2024]	15 MTPA	3319.42 Ha	15.01.2024	Implemented
9	-do-	Peak Rated Capacity (PRC) Enhancement (1st phase 20%) as per MoEF&CC guidelines dated 11/04/2022	18 MTPA	3319.42 Ha	06.03.2024	Being implemented
10	-do-	Transfer of EC			02.05.2024	Transfer from NTPC

		[Transfer from NTPC Ltd to NTPC Mining Ltd]			Ltd to NTPC Mining Ltd
11	-do-	Amendment in EC [Road transport granted till 31.10.2024]		16.07.2024	Implemented
12	-do-	Amendment in EC [Road transport granted till 31.12.2024 only for 15 MTPA]		30.10.2024	Being Implemented

6. The PP has sought amendment in Environmental Clearance Letter dated 19.05.2009 in EC Specific Condition no. 2A(ix), seeking further amendment for extension of timeline regarding transportation of 4.5 MTPA coal by road using State Highway/ Service Road till 31.03.2025 and thereafter 3 MTPA coal by road using State Highway/ Service Road till 31.03.2026 to Banadag railway siding.

The amendment sought along with the justification furnished by the PP is as below:

Specific/General Condition No.	Details of Conditions as per EC	Amendment Sought	Justification
Specific Condition No.- 2A (ix) of EC dated 19.05.2009 and latest amended vide letter dated 30.10.2024	<i>The PP is permitted to use Service Road/ State Highway for transportation of 15 MTPA of Coal to Banadag railway siding till 31.12.2024 adopting all the mitigative measure to control dust pollution.</i>	Mineral Transportation from CHP to Railway Siding shall be done by closed belt conveyor and Rapid Loading System. PP is permitted to use Service Road/ State Highways for transportation of 4.5 MTPA coal from 01.01.2025 till 31.03.2025 and thereafter 3.0 MTPA coal by road till 31.03.2026 to Banadag railway siding adopting all mitigative measure to control dust pollution.”	Part II: 3. Hon’ble Supreme Court had directed vide its order dated 29.01.2024 in Civil Appeal No 6249/2021 to complete the CHP system including RLS by 31.12.2024. In this regard it is pertinent to mention that RLS system which consists of two streams, stream 1 has been commissioned on 15.11.2024 and the stream 2 will be ready by 15.12.2024 in compliance of the Hon’ble Supreme Court direction. 4. The construction of siding being done by railways, consists of seven nos. of rail tracks out of which 3 are ready, also, the electrification and signalling work is under progress. It is likely that yard augmentation work by railways shall be completed by 31.01.2025. After yard augmentation and RLS completion, it shall require three months of time (till 31.03.2025) to synchronize the system with railways which is known as “Integrated commissioning”. In other words, it may take three months for both RLS streams to reach its rated capacity of 15 MT. 5. Also, it is important to mention that the present design capacity of the CHP & RLS System, is of 15 MT per annum. To enhance the capability of the present system upto 18 MTPA certain modifications and additional conveyor Streams are required for which the action has already been taken and shall be completed by 31.03.2026. 6. The total production/ dispatch target for FY 2024-25 from PBCMP is 18 MMT. For last quarter i.e. Q4 starting from 01.01.2025 till 31.03.2025 the total coal to be dispatch shall be 5.5 MMT to 6.0 MMT. 7. Assuming that it may take 3 more months for both the streams of RLS to reach its rated capacity (15 MMT), the maximum quantity which may be transported through RLS shall be 13.5 MMT resulting

			<p>in a shortfall of 4.5 MMT in Q4 which needs to be transported through road. (3.0 MMT due to design limitation and 1.5 MMT for stabilisation).</p> <p>8. For FY 2025-26 the shortfall of 3.0 MMT will be there due to design limitation of the present CHP the enhancement of same shall be completed by 31.03.2026.</p> <p>In view of above, it is submitted to kindly grant permission for transportation of the coal by road for 4.5 MTPA (3.0 MTPA beyond CHP design Capacity and 1.5 MTPA for stabilisation of RLS) from 01.01.2025 till 31.03.2025 and thereafter, 3.0 MTPA of coal by road till 31.03.2026.</p>
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7. Certified Compliance Report and Action Taken thereof: The PP submitted that CCR from Regional office (RO), Ranchi was received on 19.06.2024 vide letter no. 103-425/376 and PP submitted ATR on the same on 26.08.2024.

With respect to the Condition for which amendment is sought, RO has given its observations and has mentioned that, “during inspection on 30.05.2024 it was observed that coal transportation is still being done by road from Pakri Barwadih coal mine project to Banadag railway siding. It is observed that rapid loading system of the conveyor system is under construction near Banadag railway siding. PP informed that now full efforts are being made to complete the same before 31.12.2024.”

8. Details of the Court Cases: Following court cases are pending on the said project.

Case No.	Court	Brief	Next date of hearing	Decision of court and its compliance
WP (C) 5732/2016	HC of Jharkhand	Writ Petition filed by Bhartiya Suraj Dal against State of Jharkhand and others regarding pollution and diversion of forest land without obtaining the consent of Gram Sabhas under the FRA Act 2006.	Next hearing scheduled on 03.01.2025.	
WP (C) 4036/2021	HC of Jharkhand	Writ Petition has been filed by NTPC against the State of Jharkhand and others against demand of transit fee on 100 % coal production under Jharkhand Forest Produce Transit (Regulation of Transport) Rules 2020 issued by State of Jharkhand.	Listed for hearing in first week of February 2024. No date showing for now. Next date is not given.	
WP (C) 1759/2023	HC of Jharkhand	Writ Petition filed by NTPC against the State of Jharkhand and others to stay the operation, implementation and execution of the letter No. 43, dated 03.01.2023 of Divisional Forest Officer (West), Hazaribagh by which the State of Jharkhand has demanded the payment of Transit Fee for the second time on the same load by stating that NTPC is liable to generate the challan for the second time when there is a change of mode of transportation.	Next hearing date is not given	Hon'ble court vide order dated 06.09.2024 directed not to charge NTPC twice for the same forest produce on the change of mode of transportation for transportation of any forest produce as transit fee. Hon'ble Court has stayed the order till next date of hearing to be held on 21/02/24.
WP (C) 3256/2023	HC of Jharkhand	Writ Petition filed by NTPC against the State of Jharkhand and others		The Hon'ble High Court granted stay on DFO letter vide order

		regarding quashing the letter No. 3426, dated 23.06.2023 of Divisional Forest Officer (West), Hazaribagh by which Forest Deptt. has denied Coal Transportation by Road.		dated 30.06.2023.
WP (C) 3614/2023	HC Jharkhand	PIL filed by Shri Mantu Soni against State of Jharkhand and Others regarding FC granted to Pakri Barwadih Coal Mining Project on forged document (Consent letter of Van Prabandhan Samittee).	Next hearing date is not given.	CA filed by NTPC on 18.06.2024. · Rejoinder filed by applicant on 27.06.2024. · Supplementary Counter Affidavit filed by NTPC on 07.08.2024. · Reply of affidavit filed by applicant on 20.08.2024. · Last hearing conducted on 27.09.2024.
OA no 63/2023/EZ (158/2023/PB)	NGT, Kolkata	Filed by Shri Anup Kumar against State of Jharkhand and Others regarding illegal mining in Pakri Barwadih Coal Mining Project. Vide order dated 11.08.2023, NTPC and its MDO (TSMPL) has been made party by the Hon'ble court.	Next hearing is scheduled on 03.01.2025.	Due to similar nature hearings are being held with Appeal No. 20/2023/EZ filed by NTPC Ltd. · Last hearing held on 12.11.2024. Case to be further heard on 03.01.2025.
Appeal No 20/2023	NGT, Kolkata	Appeal filed by NTPC against State of Jharkhand & Others to stay on DFO's demand letter for payment of Penal NPV with interest in line with MOEF&CC amendment letter dated 25.05.2023 for amendment of condition no-8 of FC.	Next hearing is scheduled on 03.01.2025.	1st hearing done on 01.08.2023. Hon'ble NGT stayed on DFO's Demand letter. · Last hearing held on 12.11.2024, stay continued till further order.
W.P.(PIL) 4358/2024	HC Jharkhand	PIL filed by Shri Ravikant Singh Vs Union of India and others regarding Mining beyond lease and regarding FC granted to Pakri Barwadih Coal Mining Project on forged document (Consent letter of Van Prabandhan Samittee).	Next hearing date is not given.	First Hearing held on 28.08.2024. · CA filed by NTPC on 02.09.2024. · Last hearing held on 20.09.2024.

In addition to the above, the Hon'ble Supreme Court had directed vide its order dated 29.01.2024 in Civil Appeal No 6249/2021 to complete the CHP system including RLS by 31.12.2024. In compliance to the said order, PP informed that RLS system which consists of two streams, stream 1 has been commissioned on 15.11.2024 and the stream 2 will be ready by 15.12.2024 in compliance of the Hon'ble Supreme Court direction.

Observations and deliberation of the Committee

9. The Committee deliberated on various aspects of the proposal submitted and the presentation made by PP. After detailed deliberation, the Committee noted the following:

i. MoEF&CC has granted EC for the Pakri Barwadih Coal Mining Project of M/s NTPC Limited vide letter no. J-11015/692/2007-IA.II(M) dated 19.05.2009 for capacity of 15 MTPA in an area of 3319.42 Ha. Subsequently, various amendments for the same were issued vide letters dated 29.06.2016, 07.12.2017, 14.08.2018, 10.11.2020, 16.08.2023, 09.11.2023, 15.01.2024, 16.07.2024 and 30.10.2024.

ii. Further the Peak Rated Capacity (PRC) enhancement for the project was issued vide letter dated 06.03.2024 for the

capacity of 18 MTPA from 15 MTPA in the existing area of 3319.42 Ha and the same was transferred to M/s NTPC Mining Limited vide letter dated 02.05.2024. Subsequently, an amendment in condition pertaining to transportation of coal was again issued vide letter dated 30.10.2024.

iii. It is observed by the EAC that the project involves total 643.9 Ha of forestland. Stage – II FC has been obtained by the proponent vide letter dated 17.09.2010.

iv. The above projects have been implemented and are already under operation.

v. Specific Condition no. – 2A (ix) of EC stipulated that the coal was to be transported from Coal Handling Plant (CHP) to railway siding by closed conveyor belt. The railway siding shall be provided with Silo Rapid Loading System. The timeline for this condition was extended till 31.12.2024, vide various amendments as stated above, subject to the order of Hon'ble Supreme Court w.r.t. Misc. Appeal (MA-001824 dated 18.08.2023) in the matter of Civil Appeal no 6249/2022 (NTPC vs Tripuri Singh Ors) filed by the Project Proponent. Now, the PP has again submitted the proposal for amendment in Specific Condition no. 2A(ix) of EC dated 19.05.2009 (last amended vide EC dated 30.10.2024).

vi. The PP submitted that the conveyor belt being constructed is only for the capacity of 15 MTPA and for another 3 MTPA (i.e., 18 MTPA), engineering designing had to be modified to make the changes in the conveyor and siding capacity for 18 MTPA. PP submitted that actions for the same has already been taken and same is proposed to be completed by 31.03.2026.

vii. Committee was informed that the total production target for FY 2024-25 from PBCMP is 18 MTPA. For last quarter i.e. Q4 starting from 01.01.2025 till 31.03.2025 the total coal to be dispatched shall be between 5.5 MTPA to 6 MTPA. Assuming that it may take 3 more months for both the streams of RLS to reach its rated capacity (15 MTPA), the maximum quantity which may be transported through RLS shall be 13.5 MTPA resulting in a shortfall of 4.5 MTPA in Q4 which needs to be transported through road. (3 MTPA due to design limitation and 1.5 MTPA for stabilisation).

viii. PP presented a drone vide to the Committee, of undergoing construction of CHP and Silo. Since, that area has a frequent movement of elephants, the height of conveyor is planned such that, it will give safe passage to elephants.

ix. Committee deliberated on the present scenario of coal transportation and was informed by the proponent, that presently the transportation of coal from mine pit to crusher installed at mine pit head is being done by the mine trucks for the entire quantity of coal being produced and the same is proposed to be done throughout the mine life. Further, some quantity of coal, from crusher installed at mine pit head to stacker/reclaimer, is being transported through closed belt conveyor of 8 km which is within the mine boundary and this will be further transported to Banadag Railway siding through road at a distance of 23 km. And rest of the quantity of coal is directly being transported from crusher to Banadag Railway Siding by road at a distance of 30 km.

x. The Committee deliberated on the actions taken by the PP on the recommendations of the EAC Sub-Committee made during the site visit 20-26th November, 2024. On the recommendation of the sub-committee, the PP has done the mapping of grassing and plantation on 30.11.2024, generated carbon footprint data for PBCMP, display boards highlighting the biodiversity initiatives are being installed, green agronets are being installed in the area of nearby villages, bidding for procurement of CAAQMS has been started and equipment for water testing lab has been procured and the same is under installation.

xi. The Committee opined that out of the 2 nos of CAAQMS being procured, 1 shall be installed in the core zone and another shall be installed in the habitation around the ML area, such as Sirka Village and the data of the same shall be displayed in HoP and EMG office, so that effective monitoring and corrective actions may be taken time to time.

xii. The Committee opined that the Mobile Environment Monitoring Van may be procured and used in the mines.

xiii. The Committee deliberated on the use of e-dumpers being explored and observed that the PP has converted all the diesel operated HEMMs into electrical HEMMs and feasibility of using e-dumper is being tested for now in PBCMP.

xiv. The Committee also deliberated on the plantation activities being done by the PP. Committee is of the opinion that

avenue plantation shall be instantly started and gap plantation on the OB dumps shall be done.

xv. The Committee also enquired about the status of court cases pending on the project. The PP submitted that there are total 6 nos. of cases pending at Hon'ble High Court of Jharkhand and total 2 nos. of cases pending at Hon'ble NGT (EZ), Kolkata. PP also displayed a copy of the Court Order during the presentation of the Court case in the matter of Misc. Appeal No. 1824 of 2023 in Civil Appeal No. 6249 of 2021 (NTPC Ltd v. Tripurari Singh and Others) regarding the extension of the timeline for completion of the closed conveyor belt system. PP submitted that the Hon'ble Supreme Court has extended the timeline for completion of the belt conveyor system till 31.12.2024, vide its order dated 29.01.2024 and the matter was disposed of.

xvi. The committee noted that Pakri Barwadih Coal Mining Project does not fall under critically polluted area and severely polluted area as per CEPI Assessment 2018.

xvii. The Committee took into cognizance that the existing EC of 18 MTPA was accorded for 20% expansion under para 7(ii) of EIA Notification, 2006 as per Ministry's OM dated 11.04.2022. The committee sought clarification regarding requirement of enhanced capacity of CHP and Silo, in case the PP seeks further expansion for the said project in future. The PP submitted that due to huge habitation in that area, it is not feasible for the proponent to go beyond 18 MTPA and PP informed that no further expansion is envisaged.

xviii. Vide Ministry's order dated 18/12/2024, a site visit was conducted by Sub-committee of EAC for Pakri Barwadih Coal Mining Project and submitted their observations/recommendations. Accordingly, M/s NML shall address and comply the following recommendations submitted by the Sub-committee.

a) There are sufficient spaces available at different sites in the mine lease area which needs immediate plantation. The mapping of the Pakri Barwadih mine for grassing and plantation shall be carried out on the stabilized OB and berms. The proponent is instructed to prepare time bound comprehensive plantation plan with native species for protection of the ecology of the surrounding area and post-mining ecological restoration plan. The proponent should submit the detailed plan in tabular format (year-wise for life of mine) for afforestation and green belt development in and around the mining lease area. The proponent should submit the number of saplings to be planted, area to be covered under afforestation and green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this, the proponent should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this, plantation in the safety zone at lease boundary the plantation should be planned in such a way that it should be completed within 2 years only. Grassing/plantation as per the above mapping shall be started in February, 2025.

b) The biodiversity initiatives carried in and around the mine lease area shall be highlighted through display boards in the suitable places outside the mine lease area.

c) The proponent shall generate the carbon footprint data for the entire mine lease area.

d) The proponent shall prepare time bound comprehensive action plan for the diversion of nalla(s) from the mine lease area.

e) The proponent shall take adequate precautionary measures as per the MoEFCC OM dated 29.10.2014 to minimize the impact of mining activity on habitations.

f) Comprehensive risk management plan along with mitigation measures for fire events in the coal yards/dumps shall be prepared and complied with.

g) The environment laboratory shall be upgraded with all sophisticated instruments.

h) ETP in the mine area shall be upgraded with online effluent quality monitoring system.

i) No any meteorological data / environmental data recording instruments have been seen at and around mining site. Only one CAAQMS has been installed in the city site. More number of CAAQMS at different sites needs to be installed.

Continuous Ambient Air Quality Monitoring Station (CAAQMS) to monitor ambient air quality within the mining lease area shall be installed and connected with the servers of CPCB/SPCB. The proponent shall calibrate the instrument timely and display the monitored data on the digital board at Hop and in the EMG office for effective monitoring and corrective action.

Recommendations of the Committee

10. After deliberations, the Committee **recommended** the proposal for amendment in EC granted vide file no. J-11015/692/2007-IA.II(M) dated 19.05.2009 & its subsequent amendment dated 30/10/2024 as detailed below subject to stipulation of additional specific conditions (**Annexure-1**). Other terms and conditions prescribed in EC dated 19.05.2009 and its subsequent amendment shall remain unchanged:

Reference in EC letter dated 19.05.2009 & its subsequent amendment dated 30/10/2024	Description as per approved EC & its subsequent amendment dated 30/10/2024	Amendment sought in EC	Recommendation of EAC
Specific Condition No.- 2A (ix)	<i>The PP is permitted to use Service Road/ State Highway for transportation of 15 MTPA of Coal to Banadag railway siding till 31.12.2024 adopting all the mitigative measure to control dust pollution.</i>	Mineral Transportation from CHP to Railway Siding shall be done by closed belt conveyor and Rapid Loading System. PP is permitted to use Service Road/State Highways for transportation of 4.5 MMT coal from 01.01.2025 till 31.03.2025 and thereafter 3.0 MMT coal by road till 31.03.2026 to Banadag railway siding adopting all mitigative measure to control dust pollution.”	Agreed With regard to the changes in specific condition 2A(ix), Committee recommended to amend specific condition 2A(ix) as follows: “ <i>The PP is permitted to use service road/ state highway for transportation of 4.5 MTPA of coal to Banadag Railway Siding till 31.03.2025 only. Thereafter, only 3 MTPA of coal is permitted to transport via service road/ state highway till 31.03.2026 adopting all mitigative measures to control dust pollution. No road transportation of coal will be permitted beyond 31.03.2026.</i> ”

Decision of MoEF&CC

11. The undersigned is directed to inform that Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Coal) hereby decided for grant of amendment in the EC dated 19.05.2009 & its subsequent amendment dated 30/10/2024; as detailed in para 10 above subject to the compliance of the additional terms & conditions / specific conditions at **Annexure-I**.

12. All other terms and conditions mentioned in the Environment Clearance letter no. J-11015/692/2007-IA.II(M) dated 19.05.2009 & its subsequent amendment dated 30/10/2024 shall remain unchanged.

13. The project proponent shall obtain fresh Environment Clearance in case of change in scope of the project, if any.

14. This issues with the approval of the Competent Authority.

Yours faithfully,

(Sundar Ramanathan)

Scientist 'F'

Tel: 011- 20819378

Email- r.sundar@nic.in

Copy To

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. The Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, 2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand – 834 002.
4. The Chairman, Jharkhand State Pollution Control Board, TA building, HEC complex, PO Dhurwa, Ranchi.
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
6. The Chairman, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
7. The Regional Director, Central Ground Water Board, Mid-Eastern Region, 6th& 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road, Dak Banglow, Patna- 800011, Bihar.
8. The District Collector, Hazaribagh, Government of Jharkhand.
9. PARIVESH Portal.

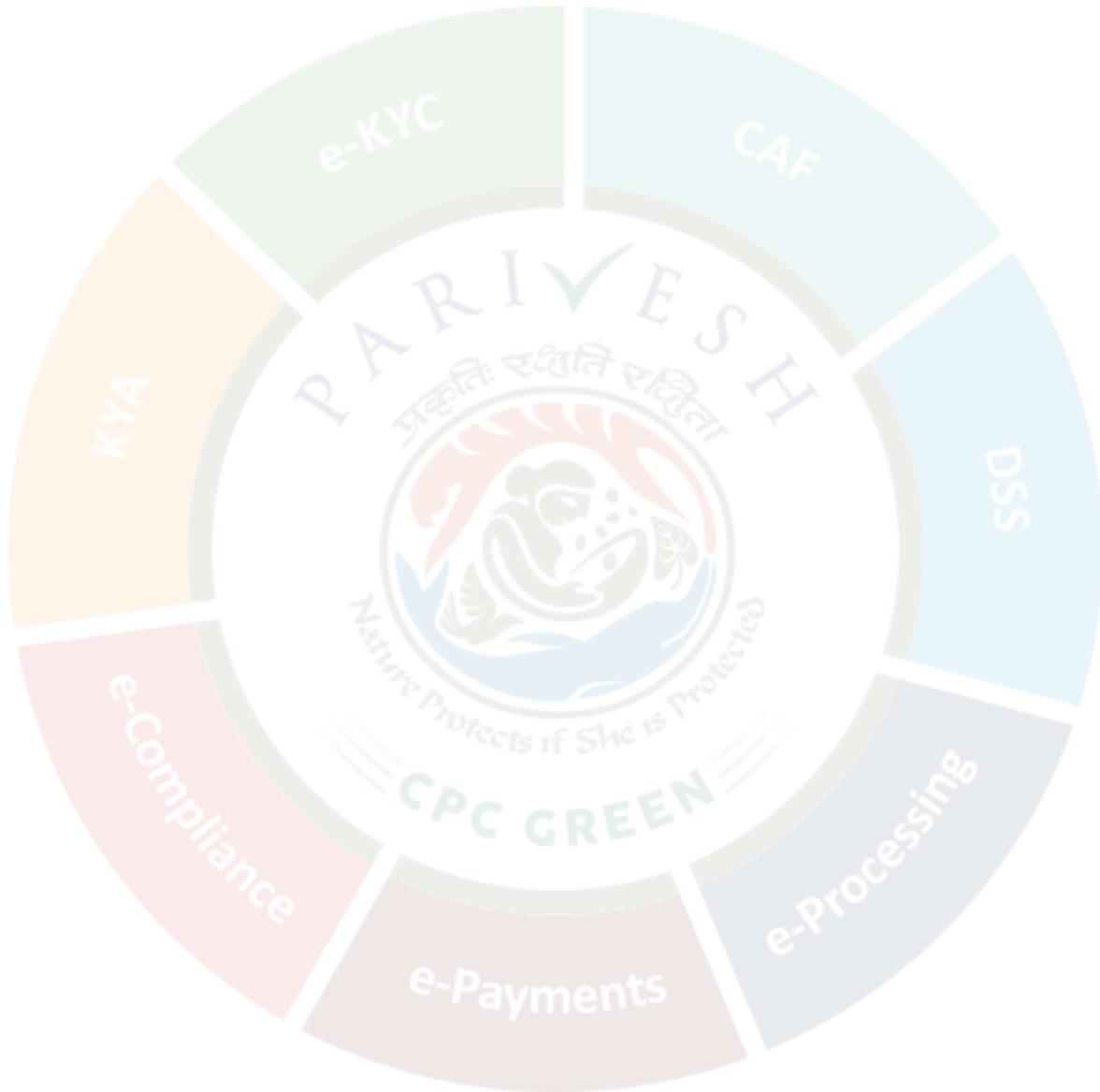
Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Additional Specific Conditions:

S. No	EC Conditions
1.1	1 nos of CAAQMS must be installed in the core zone and 1 nos of CAAQMS must be installed in the Sirka Village in consultation with JSPCB within 6 months from the date of grant of EC amendment.
1.2	A full-fledged Environment Laboratory must be established by 30.06.2025, which should cater the needs of all three mines of NTPC Mining Limited, i.e., Pakri Barwadih Coal Mining Project, Kerandari Coal Mining Project and Chatti Bariatu Coal Mining Project.
1.3	Avenue plantation shall be instantly started all along the right of way of closed belt conveyor and silos.
1.4	All the recommendations made by the site visit report of the sub-committee held on 20-26th November, 2024 shall be complied with and the compliance status in this regard shall be submitted to concerned Regional Office of MoEF&CC.
1.5	Watershed management plan for Khorra Nallah and Pakwa Nallah exist within the ML area shall be developed and implemented

S. No	EC Conditions
1.6	Carbon emissions need to be assessed and brief plan for carbon emission mitigation shall be submitted by the PP.



TRAFFIC STUDY REPORT
ON
ASSESSMENT OF IMPACTS DUE TO
TRANSPORTATION OF COAL BY ROAD

FROM
PAKRI-BARWADIH COAL MINING PROJECT
[LOCATED In NORTH KARANPURA COALFIELDS, HAZARIBAGH, JHARKHAND]

OF

NTPC MINING LIMITED

TO

BANADAG RAILWAY SIDING
[LOCATED IN BANADAG VILLAGE, HAZARIBAGH, JHARKHAND]

ISSUE 1 REV. 0 (UID No. 202405003), MAY 2024

Prepared by:



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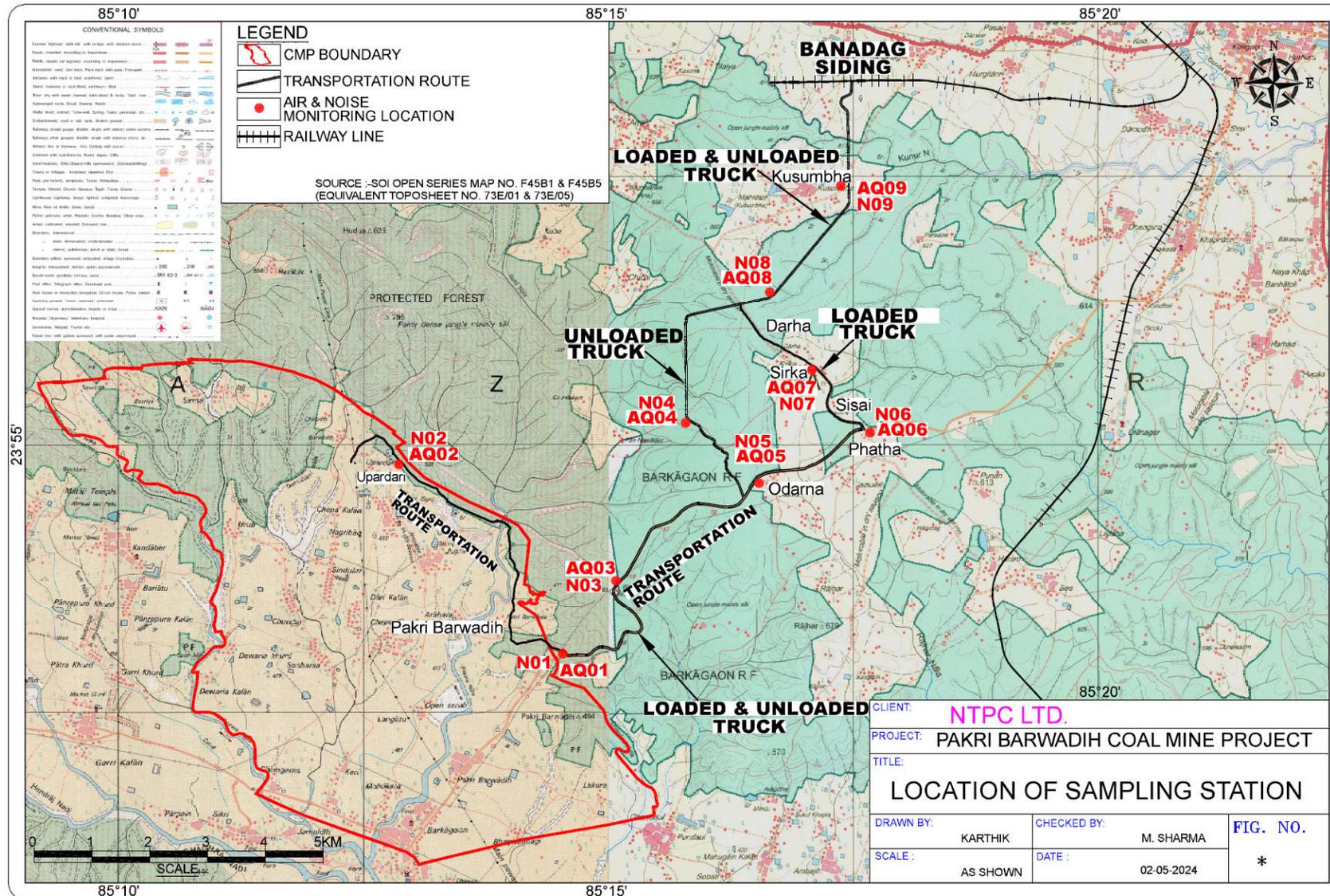
Accredited by NABET, QCI vide Certificate No. NABET/ EIA/2225/IA
0096 (Rev.01) valid till 29.03.2025

TABLE 3: ROAD WIDTH MEASURED

Width measurement location	Latitude, N	Longitude, E	Length of road between two adjacent points, m	Distance from loading point within ML, km	Existing Right of way, m (shoulders + carriage way)	Existing Shoulder left side, m	Existing Carriage way including divider, if any, m	Existing Shoulder right side, m	Divider If any	Existing Carriage way excluding divider, if any, m	Type of road	Ownership of road & its name/ number
RW1	23°54'44.17"N	85°12'24.70"E	RW1 to RW2 = 725	0.7	10.0		10		-	10.0	WBM/Haul	Mine Road
RW2	23°55'1.66"N	85°12'36.67"E	RW2 to RW3 = 2789	3.5	9.0	1	7	1	-	7.0	Black topped	Mine Road
RW3	23°54'12.77"N	85°13'55.31"E	RW3 to RW4 = 85	3.6	9.1	0.85	7.4	0.85	-	7.4	Black topped	Mine Road
RW4	23°54'10.95"N	85°13'57.49"E	RW4 to RW5 = 3086	6.7	9.0	1	7	1	-	7.0	Black topped	Mine Road
RW5	23°52'58.14"N	85°14'35.64"E	RW5 to RW6 = 5878	12.6	11.0	2	7	2	-	7.0	Black topped	SH-7
RW6	23°54'36.14"N	85°16'24.24"E	RW6 to RW7 = 2418	15.0	11.0	2	7	2	-	7.0	Black topped	SH-7
RW7	23°55'8.79"N	85°17'38.16"E	RW7 to RW8 = 3330	18.3	9.0	1	7	1	-	7.0	Black topped	Village road
RW8	23°56'17.10"N	85°16'24.36"E	RW8 to RW9 = 3215	21.6	7.0		7		-	7.0	Black topped	Conveyor service road
RW9	23°57'35.91"N	85°17'28.73"E	RW9 to RW10 = 808	22.4	7.0		7		-	7.0	Concrete	Conveyor service road
RW10	23°58'3.75"N	85°17'27.69"E	RW10 to siding = 685	23.1	12.0	2	8	2	-	8.0	Black topped	Conveyor service road
siding	23°58'21.91"N	85°17'29.09"E	siding									
RW6	23°54'36.14"N	85°16'24.24"E	RW6 to RW11 1908	1.9	9.0	1	7	1	-	7.0	Black topped	Village/Forest road
RW11	23°55'24.26"N	85°15'51.29"E	RW11 to RW8 = 2314	4.2	9.0	1	7	1	-	7.0	Black topped	Conveyor service road
RW8	23°56'17.10"N	85°16'24.36"E	RW8 =	4.2	0.0					0.0	Black topped	



FIG. 5: LOCATION OF AIR AND NOISE SAMPLING STATIONS





Idma Laboratories Limited

TEST REPORT

LAB NO.		090525N-E-001		Page No. 1/1				
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		05.05.2025						
Location of Sampling		Eastern Quarry Dispatch gate						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results		Specification	Test Method		
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	78.9		Max. 100	IS:5182 (PART-23)		
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.5		Max. 60	IDL/SP/03,ISSUENO-1		
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.5		Max. 80	IS:5182 (PART-2)		
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.4		Max. 80	IS:5182 (PART-6)		
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	10.5		Max. 400	IS:5182 (PART-25)		
6	Arsenic	ng/m^3	<0.1		Max. 6	EPA/625/R-96/010A		
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1		Max. 1.0	EPA/625/R-96/010A		
8	Nickel	ng/m^3	<1		Max. 20	EPA/625/R-96/010A		
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	<0.5		Max. 5	IS:5182 (PART-11)		
10	Benzo-a-pyrene	ng/m^3	<1		Max. 1.0	IS:5182 (PART-12)		
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.38	0.35	0.34	0.36	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.78	18.80	18.82	18.80	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.		120525N-E-001				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		07.05.2025						
Location of Sampling		Eastern Quarry Dispatch gate						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	77.5			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.8			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.3			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.6			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.9			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	<0.5			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.36	0.33	0.32	0.34	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	19.38	19.40	19.42	19.40	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.inEmail : commercial@idmalab.co.in**Disclaimer :**

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TEST REPORT

LAB NO.		160525N-E-001				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		12.05.2025						
Location of Sampling		Eastern Quarry Dispatch gate						
Date of Receiving of sample		16.05.2025						
Period of Analysis		16.05.2025 to 19.05.2025						
Date of Reporting		19.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	80.2			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	39			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.8			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	19.2			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.4			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	<0.5			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	17.58	17.60	17.62	17.60	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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TEST REPORT

LAB NO.		190525N-E-001		Page No. 1/1				
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		14.05.2025						
Location of Sampling		Eastern Quarry Dispatch gate						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results		Specification	Test Method		
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	78.5		Max. 100	IS:5182 (PART-23)		
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.6		Max. 60	IDL/SP/03,ISSUENO-1		
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.1		Max. 80	IS:5182 (PART-2)		
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.8		Max. 80	IS:5182 (PART-6)		
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	10.4		Max. 400	IS:5182 (PART-25)		
6	Arsenic	ng/m^3	<0.1		Max. 6	EPA/625/R-96/010A		
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1		Max. 1.0	EPA/625/R-96/010A		
8	Nickel	ng/m^3	<1		Max. 20	EPA/625/R-96/010A		
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	<0.5		Max. 5	IS:5182 (PART-11)		
10	Benzo-a-pyrene	ng/m^3	<1		Max. 1.0	IS:5182 (PART-12)		
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.35	0.32	0.31	0.33	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.48	18.50	18.52	18.50	Max. 180	IS:5182 (PART-9)

End of Report

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Idma Laboratories Limited

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391, Industrial Area, Phase - 1,

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TEST REPORT

LAB NO.		090525N-E-002			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-109-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		05.05.2025						
Location of Sampling		TP-5						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.1			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.9			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.6			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.9			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.38	0.35	0.34	0.36	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	18.18	18.20	18.22	18.20	Max. 180	IS:5182 (PART-9)

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Reviewed by



Authorised Signatory



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Idma Corporate Park,

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Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		07.05.2025						
Location of Sampling		TP-5						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.8			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.8			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.1			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.5			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.58	17.60	17.62	17.60	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

LAB NO.	160525N-E-002	Page No.1/1						
Customer	1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,							
Work Order No.	4000358540-108-1040 Date: 24.04.2025							
Type of Sample	Ambient Air							
Quantity	1							
Packing,Markings	Filter Paper packed in Polythene Pouch							
Mode of collection of Sample	Sampling by Laboratories							
Sample Collected by	Idma Lab Representative							
Date of Sampling	12.05.2025							
Location of Sampling	TP-5							
Date of Receiving of sample	16.05.2025							
Period of Analysis	16.05.2025 to 19.05.2025							
Date of Reporting	19.05.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.2	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.5	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.6	Max.80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.8	Max.80	IS:5182 (PART-6)			
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.1	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m^3	<0.1	Max.6	EPA/625/R-96/010A			
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m^3	<1	Max.20	EPA/625/R-96/010A			
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5	Max. 5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m^3	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.41	0.38	0.37	0.39	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	19.18	19.20	19.22	19.20	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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**TEST REPORT**

LAB NO.		190525N-E-002			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		14.05.2025						
Location of Sampling		TP-5						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly.								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	78.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.9			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.1			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.2			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.37	0.34	0.33	0.35	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.48	17.50	17.52	17.50	Max. 180	IS:5182 (PART-9)

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Authorised Signatory

**Idma Laboratories Limited**

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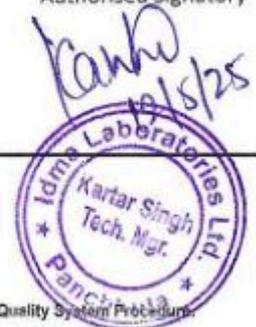
LAB NO.		090525N-E-003				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		05.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.1				Max. 100	IS:5182 (PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.9				Max. 60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.8				Max. 80	IS:5182 (PART-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.3				Max. 80	IS:5182 (PART-6)
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.5				Max. 400	IS:5182 (PART-25)
6	Arsenic	ng/m^3	<0.1				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	ng/m^3	<1				Max. 20	EPA/625/R-96/010A
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5				Max. 5	IS:5182 (PART-11)
10	Benzo-a-pyrene	ng/m^3	<1				Max. 1.0	IS:5182 (PART-12)
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.41	0.38	0.37	0.39	Max. 4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.48	17.50	17.52	17.50	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

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Idma Laboratories Limited



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TEST REPORT

LAB NO.		120525N-E-003				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		07.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	µg/m ³	77.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	µg/m ³	35.6			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.2			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.2			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	µg/m ³	9.3			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m ³	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	µg/m ³	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m ³	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	µg/m ³	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m ³	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.39	0.36	0.35	0.37	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	µg/m ³	17.78	17.80	17.82	17.80	Max. 180	IS:5182 (PART-9)

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LAB NO.		160525N-E-003				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		12.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		16.05.2025						
Period of Analysis		16.05.2025 to 19.05.2025						
Date of Reporting		19.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.2			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.6			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.5			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.37	0.34	0.33	0.35	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	18.38	18.40	18.42	18.40	Max. 180	IS:5182 (PART-9)

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TEST REPORT

LAB NO.		190525N-E-003					Page No.1/1	
Customer		1040PakriBarwadihCMP, SikrisiteOffice, P.O. Barkaga Hazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		14.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.2			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.4			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.8			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.9			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.58	17.60	17.62	17.60	Max. 180	IS:5182 (PART-9)

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LAB NO.		090525N-E-004			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		05.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	µg/m ³	75.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	µg/m ³	33.9			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.1			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17:6			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	µg/m ³	9			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m ³	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	µg/m ³	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m ³	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	µg/m ³	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m ³	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.44	0.41	0.40	0.42	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	µg/m ³	17.58	17.60	17.62	17.60	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.		120525N-E-004			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		07.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.1			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.2			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.2			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.1			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.4			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.41	0.38	0.37	0.39	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.78	16.80	16.82	16.80	Max. 180	IS:5182 (PART-9)

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Authorised Signatory



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Idma Corporate Park,

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TEST REPORT

LAB NO.		160525N-E-004				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		12.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		16.05.2025						
Period of Analysis		16.05.2025 to 19.05.2025						
Date of Reporting		19.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.2			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.1			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.7			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.4			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			Average
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	18.08	18.10	18.12	18.10	Max. 180	IS:5182 (PART-9)

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Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Idma Laboratories Limited

TEST REPORT

LAB NO.		190525N-E-004				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		14.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.4			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.4			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.3			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.43	0.40	0.39	0.41	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.48	17.50	17.52	17.50	Max. 180	IS:5182 (PART-9)

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Authorised Signatory

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TEST REPORT

LAB NO.		090525N-E-005				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		06.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.2			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.7			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.5			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.39	0.36	0.35	0.37	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.78	16.80	16.82	16.80	Max. 180	IS:5182 (PART-9)

End of Report

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Authorised Signature



Idma Laboratories Limited

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TEST REPORT

LAB NO.		120525N-E-005				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		08.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.4			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.2			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.5			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.40	0.42	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.48	17.50	17.52	17.50	Max. 180	IS:5182 (PART-9)

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LAB NO.	160525N-E-005	Page No.1/1						
Customer	1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,							
Work Order No.	4000358540-108-1040 Date: 24.04.2025							
Type of Sample	Ambient Air							
Quantity	1							
Packing,Markings	Filter Paper packed in Polythene Pouch							
Mode of collection of Sample	Sampling by Laboratories							
Sample Collected by	Idma Lab Representative							
Date of Sampling	13.05.2025							
Location of Sampling	TP-9							
Date of Receiving of sample	16.05.2025							
Period of Analysis	16.05.2025 to 19.05.2025							
Date of Reporting	19.05.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.2	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.5	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.8	Max.80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.9	Max.80	IS:5182 (PART-6)			
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.9	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m^3	<0.1	Max.6	EPA/625/R-96/010A			
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m^3	<1	Max.20	EPA/625/R-96/010A			
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5	Max.5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m^3	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results		Average	Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.18	17.20	17.22	17.20	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.inEmail : commercial@idmalab.co.in**Disclaimer :**

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TEST REPORT

LAB NO.		190525N-E-005				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		15.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	78			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.7			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.2			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.4			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.3			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.38	0.35	0.34	0.36	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.98	18.00	18.02	18.00	Max. 180	IS:5182 (PART-9)

EndofReport

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Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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Idma Laboratories Limited

TEST REPORT

LAB NO.		090525N-E-006				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		06.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.5			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.8			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.6			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.8			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.40	0.42	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.98	16.90	16.92	16.90	Max. 180	IS:5182 (PART-9)

End of Report

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**Idma Laboratories Limited**

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LAB NO.		120525N-E-006				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		08.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.4			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.5			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.18	17.20	17.22	17.20	Max. 180	IS:5182 (PART-9)

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Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

LAB NO.		160525N-E-006				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		13.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		16.05.2025						
Period of Analysis		16.05.2025 to 19.05.2025						
Date of Reporting		19.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.6			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.3			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.92	0.89	0.88	0.90	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.78	16.80	16.82	16.80	Max. 180	IS:5182 (PART-9)

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TEST REPORT

LAB NO.	190525N-E-006	Page No.1/1						
Customer	1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND,							
Work Order No.	4000358540-108-1040 Date: 24.04.2025							
Type of Sample	Ambient Air							
Quantity	1							
Packing,Markings	Filter Paper packed in Polythene Pouch							
Mode of collection of Sample	Sampling by Laboratories							
Sample Collected by	Idma Lab Representative							
Date of Sampling	15.05.2025							
Location of Sampling	TP10/RLS Area							
Date of Receiving of sample	19.05.2025							
Period of Analysis	19.05.2025 to 22.05.2025							
Date of Reporting	22.05.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.1	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.7	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	14.7	Max.80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	16.9	Max.80	IS:5182 (PART-6)			
5	Ammonia(NH_3)	$\mu\text{g}/\text{m}^3$	9.4	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m^3	<0.1	Max.6	EPA/625/R-96/010A			
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m^3	<1	Max.20	EPA/625/R-96/010A			
9	Benzeneas C_6H_6	$\mu\text{g}/\text{m}^3$	<0.5	Max.5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m^3	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.43	0.40	0.39	0.41	Max.4	IS:5182 (PART-10)
12	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	17.48	17.50	17.52	17.50	Max. 180	IS:5182 (PART-9)

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TEST REPORT

LAB NO.		090525N-E-007				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		06.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	63.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.5			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.6			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	13.6			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	7.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			{0-8 hrs}	{8-16 hrs}	{16-24 hrs}			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.34	0.31	0.30	0.32	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.78	16.80	16.82	16.80	Max. 180	IS:5182 (PART-9)

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Authorised Signatory



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TEST REPORT

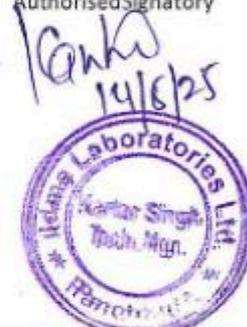
LAB NO.		120525N-E-007				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		08.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	66.7			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	28.8			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.5			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-15 hrs)	(15-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.36	0.33	0.32	0.34	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.38	16.40	16.42	16.40	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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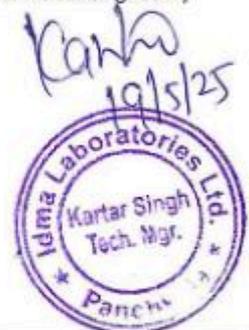
LAB NO.		160525N-E-007			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		13.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		16.05.2025						
Period of Analysis		16.05.2025 to 19.05.2025						
Date of Reporting		19.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.2			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.2			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.3			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	7.9			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.33	0.30	0.29	0.31	Max. 4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.98	17.00	17.02	17.00	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

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TEST REPORT

LAB NO.		190525N-E-007			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		15.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	27.9			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.8			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.7			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.3			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.35	0.32	0.31	0.33	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.78	17.80	17.82	17.80	Max. 180	IS:5182 (PART-9)

EndofReport

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Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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LAB NO.		090525N-E-008				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		idma Lab Representative						
Date of Sampling		06.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		09.05.2025						
Period of Analysis		09.05.2025 to 12.05.2025						
Date of Reporting		12.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.2			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	28.9			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.2			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.5			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12) *	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(2-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.35	0.32	0.31	0.33	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.78	17.80	17.82	17.80	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by

Shy 12/05/25

Authorised Signatory

Kartar Singh 12/5

Idma Laboratories Limited
 Idma Corporate Park,

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 Panchkula - 134113,

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LAB NO.		120525N-E-008				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		08.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		12.05.2025						
Period of Analysis		12.05.2025 to 14.05.2025						
Date of Reporting		14.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	67.5			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.2			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.8			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	13.7			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.5			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.38	0.35	0.34	0.36	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.98	18.00	18.02	18.00	Max. 180	IS:5182 (PART-9)

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LAB NO.		160525N-E-008			Page No.1/1			
Customer		1040PakriBarwadihCMP, SikrisiteOffice, P.O. BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		13.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		16.05.2025						
Period of Analysis		16.05.2025 to 19.05.2025						
Date of Reporting		19.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.2			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.1			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.2			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			{0-8 hrs}	{8-16 hrs}	{16-24 hrs}			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.37	0.34	0.33	0.35	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.88	16.90	16.92	16.90	Max. 180	IS:5182 (PART-9)

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Authorised Signatory



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Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		15.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		19.05.2025						
Period of Analysis		19.05.2025 to 22.05.2025						
Date of Reporting		22.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	62.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.4			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.5			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.2			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<0.5			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.34	0.31	0.30	0.32	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.58	17.60	17.62	17.60	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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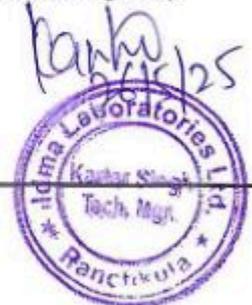
LAB NO.		260525N-E-001				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		19.05.2025						
Location of Sampling		Eastern Quarry Dispatch gate						
Date of Receiving of sample		22.05.2025						
Period of Analysis		22.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	81.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.9			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.1			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.6			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	10.1			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.09			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.97			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.41	0.38	0.37	0.39	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.48	18.50	18.52	18.50	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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TEST REPORT

LAB NO.		270525N-E-001		Page No. 1/1				
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		21.05.2025						
Location of Sampling		Eastern Quarry Dispatch gate						
Date of Receiving of sample		24.05.2025						
Period of Analysis		24.05.2025 to 27.05.2025						
Date of Reporting		27.05.2025						
Sampling Protocol		NAAQMS/35/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	82.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.4			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.6			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	19.1			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	10.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.11			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.99			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			Average
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.43	0.40	0.39	0.41	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.98	19.00	19.02	19.00	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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TEST REPORT

LAB NO.	020625N-E-001		Page No. 1/1					
Customer	1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}							
Work Order No.	4000358540-108-1040 Date: 24.04.2025							
Type of Sample	Ambient Air							
Quantity	1							
Packing, Markings	Filter Paper packed in Polythene Pouch							
Mode of collection of Sample	Sampling by Laboratories							
Sample Collected by	Idma Lab Representative							
Date of Sampling	26.05.2025							
Location of Sampling	Eastern Quarry Dispatch gate							
Date of Receiving of sample	29.05.2025							
Period of Analysis	29.05.2025 to 02.06.2025							
Date of Reporting	02.06.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	81.6			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38.2			Max. 60	IDL/SP/03, ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.3			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.8			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	10.3			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 5	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.98			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.42	0.39	0.38	0.40	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.68	18.70	18.72	18.70	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	030625N-E-001	Page No. 1/1						
Customer	1040 Pakri Barwadhi CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))							
Work Order No.	4000358540-108-1040 Date: 24.04.2025							
Type of Sample	Ambient Air							
Quantity	1							
Packing, Markings	Filter Paper packed in Polythene Pouch							
Mode of collection of Sample	Sampling by Laboratories							
Sample Collected by	Idma Lab Representative							
Date of Sampling	28.05.2025							
Location of Sampling	Eastern Quarry Dispatch gate							
Date of Receiving of sample	31.05.2025							
Period of Analysis	31.05.2025 to 03.06.2025							
Date of Reporting	03.06.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	81.9	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	39.1	Max. 60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.5	Max. 80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	19	Max. 80	IS:5182 (PART-6)			
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	10.5	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m^3	<0.1	Max. 6	EPA/625/R-96/010A			
7	Lead	$\mu\text{g}/\text{m}^3$	0.12	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m^3	<1	Max. 20	EPA/625/R-96/010A			
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	1	Max. 5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m^3	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
			(0-8 hrs)	(8-24 hrs)	(16-24 hrs)			
11	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.40	0.42	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.88	18.90	18.92	18.90	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by *[Signature]* 06/25

Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

LAB NO.		260525N-E-002				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		19.05.2025						
Location of Sampling		TP-5						
Date of Receiving of sample		22.05.2025						
Period of Analysis		22.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	76.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.7			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.4			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.3			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.13			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.79			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	17.88	17.90	17.92	17.90	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



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TEST REPORT

LAB NO.	270525N-E-002	Page No. 1/1						
Customer	1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}							
Work Order No.	4000358540-108-1040 Date: 24.04.2025							
Type of Sample	Ambient Air							
Quantity	1							
Packing, Markings	Filter Paper packed in Polythene Pouch							
Mode of collection of Sample	Sampling by Laboratories							
Sample Collected by	Idma Lab Representative							
Date of Sampling	21.05.2025							
Location of Sampling	TP-5							
Date of Receiving of sample	24.05.2025							
Period of Analysis	24.05.2025 to 27.05.2025							
Date of Reporting	27.05.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	77.4	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.2	Max. 60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.9	Max. 80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.8	Max. 80	IS:5182 (PART-6)			
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.7	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m^3	<0.1	Max. 6	EPA/625/R-96/010A			
7	Lead	$\mu\text{g}/\text{m}^3$	0.15	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m^3	<1	Max. 20	EPA/625/R-96/010A			
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.81	Max. 5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m^3	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results	Average	Specification	Test Methods		
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.42	0.39	0.38	0.40	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.38	18.40	18.42	18.40	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.inEmail : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.		020625N-E-002				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		26.05.2025						
Location of Sampling		TP-5						
Date of Receiving of sample		29.05.2025						
Period of Analysis		29.05.2025 to 02.06.2025						
Date of Reporting		02.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	µg/m ³	76.6			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	µg/m ³	37			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.6			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16.5			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	µg/m ³	9.4			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m ³	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	µg/m ³	0.14			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m ³	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	µg/m ³	0.8			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m ³	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			10-11 hrs)	18-16 hrs)	16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.41	0.38	0.37	0.39	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	µg/m ³	18.08	18.10	18.12	18.10	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Idma Laboratories Limited

TEST REPORT

LAB NO.		030625N-E-002				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		28.05.2025						
Location of Sampling		TP-5						
Date of Receiving of sample		31.05.2025						
Period of Analysis		31.05.2025 to 03.06.2025						
Date of Reporting		03.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	76.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.9			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.8			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.7			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.16			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.82			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			Average
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.43	0.40	0.39	0.41	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.28	18.30	18.32	18.30	Max. 180	IS:5182 (PART-9)

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TEST REPORT

LAB NO.		260525N-E-003			Page No. 1/1			
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		19.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		22.05.2025						
Period of Analysis		22.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	µg/m ³	78.1			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	µg/m ³	35.2			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.5			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	µg/m ³	8.7			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m ³	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	µg/m ³	0.08			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m ³	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	µg/m ³	0.99			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m ³	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.43	0.40	0.39	0.41	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	µg/m ³	17.68	17.70	17.72	17.70	Max. 180	IS:5182 (PART-9)

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270525N-E-003			Page No. 1/1			
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		21.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		24.05.2025						
Period of Analysis		24.05.2025 to 27.05.2025						
Date of Reporting		27.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	79.2			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.7			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.5			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	1.01			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.45	0.42	0.41	0.43	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.18	18.20	18.22	18.20	Max. 180	IS:5182 (PART-9)

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LAB NO.		020625N-E-003			Page No. 1/1			
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		26.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		29.05.2025						
Period of Analysis		29.05.2025 to 02.06.2025						
Date of Reporting		02.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results		Specification	Test Method		
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	µg/m ³	78.4		Max. 100	IS:5182 (PART-23)		
2	Particulate Matter (PM2.5)	µg/m ³	35.5		Max. 60	IDL/SP/03,ISSUENO-1		
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.7		Max. 80	IS:5182 (PART-2)		
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16.2		Max. 80	IS:5182 (PART-6)		
5	Ammonia(NH ₃)	µg/m ³	8.9		Max. 400	IS:5182 (PART-25)		
6	Arsenic	ng/m ³	<0.1		Max. 6	EPA/625/R-96/010A		
7	Lead	µg/m ³	0.09		Max. 1.0	EPA/625/R-96/010A		
8	Nickel	ng/m ³	<1		Max. 20	EPA/625/R-96/010A		
9	Benzene as C6H6	µg/m ³	1		Max. 5	IS:5182 (PART-11)		
10	Benzo-a-pyrene	ng/m ³	<1		Max. 1.0	IS:5182 (PART-12)		
S.No	Test Parameters	Units	Results			Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			Average
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.44	0.41	0.40	0.42	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	µg/m ³	17.88	17.90	17.92	17.90	Max. 180	IS:5182 (PART-9)

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Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		28.05.2025						
Location of Sampling		TP-6						
Date of Receiving of sample		31.05.2025						
Period of Analysis		31.05.2025 to 03.06.2025						
Date of Reporting		03.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	78.7			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.4			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.9			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.4			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.1			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.11			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	1.02			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.46	0.43	0.42	0.44	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.08	18.10	18.12	18.10	Max. 180	IS:5182 (PART-9)

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LAB NO.		260525N-E-004				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		19.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		22.05.2025						
Period of Analysis		22.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	79.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.5			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.5			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.3			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.3			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.11			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	1.05			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.48	0.45	0.44	0.46	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	17.88	17.90	17.92	17.90	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

LAB NO.		270525N-E-004		Page No. 1/1				
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		21.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		24.05.2025						
Period of Analysis		24.05.2025 to 27.05.2025						
Date of Reporting		27.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air) 24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	80.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.8			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.13			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.07			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air) 8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.50	0.47	0.46	0.48	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.38	18.40	18.42	18.40	Max. 180	IS:5182 (PART-9)

End of Report

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Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

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Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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Idma Laboratories Limited

TEST REPORT

LAB NO.		020625N-E-004				Page No. 1/1		
Customer		1040 Pakri Barwadih CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		26.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		29.05.2025						
Period of Analysis		29.05.2025 to 02.06.2025						
Date of Reporting		02.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	µg/m ³	79.6			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	µg/m ³	34.8			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.7			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.5			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	µg/m ³	9.5			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m ³	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	µg/m ³	0.12			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m ³	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C6H6	µg/m ³	1.06			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m ³	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-24 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.49	0.46	0.45	0.47	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	µg/m ³	18.08	18.10	18.12	18.10	Max. 180	IS:5182 (PART-9)

End of Report

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Idma Laboratories Limited

Idma Corporate Park,
 391, Industrial Area, Phase - 1,
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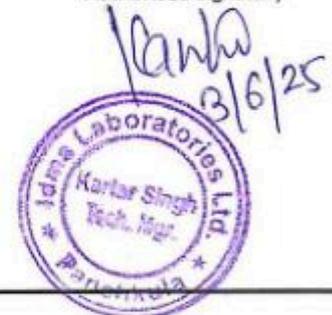
LAB NO.		030625N-E-004			Page No. 1/1			
Customer		1040 Pakri Barwadhi CMP, Sikri site Office, P.O. Barkaga Hazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		28.05.2025						
Location of Sampling		TP-8						
Date of Receiving of sample		31.05.2025						
Period of Analysis		31.05.2025 to 03.06.2025						
Date of Reporting		03.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	79.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.7			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.9			Max. 80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.7			Max. 80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.7			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.14			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max. 20	EPA/625/R-96/010A	
9	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.08			Max. 5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.51	0.48	0.47	0.49	Max. 4	IS:5182 (PART-10)
12	Ozone(O ₃)	$\mu\text{g}/\text{m}^3$	18.28	18.30	18.32	18.30	Max. 180	IS:5182 (PART-9)

End of Report

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Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Idma Laboratories Limited

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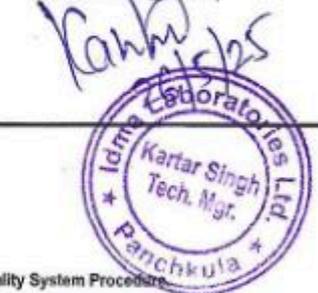
LAB NO.		260525N-E-005		Page No.1/1				
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		20.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		23.05.2025						
Period of Analysis		23.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.3			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.8			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.3			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.1			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.7			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.11			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.95			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.39	0.36	0.35	0.37	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.98	17.00	17.02	17.00	Max. 180	IS:5182 (PART-9)

End of Report

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TEST REPORT

LAB NO.		290525N-E-005		Page No.1/1				
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazariBag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		22.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		26.05.2025						
Period of Analysis		26.05.2025 to 29.05.2025						
Date of Reporting		29.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	78.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.3			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	14.8			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16.6			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.13			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.97			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			{0-8 hrs}	{8-16 hrs}	{16-24 hrs}			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.41	0.38	0.37	0.39	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.48	17.50	17.52	17.50	Max. 180	IS:5182 (PART-9)

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**TEST REPORT**

LAB NO.		020625N-E-005		Page No.1/1				
Customer		1040PakriBarwadihCMP, SikrisiteOffice, P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		27.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		30.05.2025						
Period of Analysis		30.05.2025 to 02.06.2025						
Date of Reporting		02.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	µg/m ³	77.6			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	µg/m ³	37.1			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	µg/m ³	14.5			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16.3			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	µg/m ³	8.9			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m ³	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	µg/m ³	0.12			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m ³	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	µg/m ³	0.96			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m ³	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	µg/m ³	17.18	17.20	17.22	17.20	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

LAB NO.		050625N-E-005			Page No.1/1			
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing, Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		29.05.2025						
Location of Sampling		TP-9						
Date of Receiving of sample		02.06.2025						
Period of Analysis		02.06.2025 to 05.06.2025						
Date of Reporting		05.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	38			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	14.7			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	16.5			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH_3)	$\mu\text{g}/\text{m}^3$	9.1			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.14			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C_6H_6	$\mu\text{g}/\text{m}^3$	0.98			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.42	0.39	0.38	0.40	Max.4	IS:5182 (PART-10)
12	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	17.38	17.40	17.42	17.40	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



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TEST REPORT

LAB NO.		260525N-E-006		Page No.1/1				
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		20.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		23.05.2025						
Period of Analysis		23.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results		Specification	Test Method		
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.3		Max. 100	IS:5182 (PART-23)		
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.1		Max.60	IDL/SP/03,ISSUENO-1		
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.2		Max.80	IS:5182 (PART-2)		
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.5		Max.80	IS:5182 (PART-6)		
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9		Max. 400	IS:5182 (PART-25)		
6	Arsenic	ng/m^3	<0.1		Max.6	EPA/625/R-96/010A		
7	Lead	$\mu\text{g}/\text{m}^3$	0.1		Max. 1.0	EPA/625/R-96/010A		
8	Nickel	ng/m^3	<1		Max.20	EPA/625/R-96/010A		
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.02		Max.5	IS:5182 (PART-11)		
10	Benzo-a-pyrene	ng/m^3	<1		Max. 1.0	IS:5182 (PART-12)		
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.41	0.38	0.37	0.39	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.68	16.70	16.72	16.70	Max. 180	IS:5182 (PART-9)

End of Report

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Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park

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TEST REPORT

LAB NO.		290525N-E-006				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranch)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		22.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		26.05.2025						
Period of Analysis		26.05.2025 to 29.05.2025						
Date of Reporting		29.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.6			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.7			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	16			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.5			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.12			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.04			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(2-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.43	0.40	0.39	0.41	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.18	17.20	17.22	17.20	Max. 180	IS:5182 (PART-9)

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Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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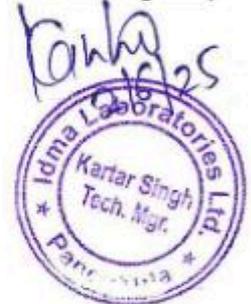
LAB NO.		020625N-E-006				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		27.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		30.05.2025						
Period of Analysis		30.05.2025 to 02.06.2025						
Date of Reporting		02.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.6			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.4			Max. 60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.4			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.7			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.11			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.03			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.42	0.39	0.38	0.40	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.88	16.90	16.92	16.90	Max. 180	IS:5182 (PART-9)

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Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

LAB NO.		050625N-E-006				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		29.05.2025						
Location of Sampling		TP10/RLS Area						
Date of Receiving of sample		02.06.2025						
Period of Analysis		02.06.2025 to 05.06.2025						
Date of Reporting		05.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	37.3			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	13.6			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	15.9			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.4			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.13			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.05			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.40	0.42	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	17.08	17.10	17.12	17.10	Max. 180	IS:5182 (PART-9)

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TEST REPORT

LAB NO.		260525N-E-007				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. (SSC - Coal Mining (Ranchi))						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		20.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		23.05.2025						
Period of Analysis		23.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.4			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	28.9			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.3			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	13.9			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	7.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.08			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.91			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.35	0.32	0.31	0.33	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.38	16.40	16.42	16.40	Max. 180	IS:5182 (PART-9)

* End of Report *

Reviewed by

Dipti Jain
 Dipti Jain
 Asst. Tech. Manager
 Idma Laboratories Ltd.
 Panchkula

Authorised Signatory

Kartar Singh
 Kartar Singh
 Tech. Mgr.
 Idma Laboratories Ltd.
 Panchkula

Idma Laboratories Limited

Idma Corporate Park

391, Industrial Area, Phase - 1,

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Tel No. 0172 - 5064827, - 5064830

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Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TEST REPORT

LAB NO.		290525N-E-007				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		22.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		26.05.2025						
Period of Analysis		26.05.2025 to 29.05.2025						
Date of Reporting		29.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65.5			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.4			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	11.8			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	14.4			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH_3)	$\mu\text{g}/\text{m}^3$	8.3			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.1			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C_6H_6	$\mu\text{g}/\text{m}^3$	0.93			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.37	0.34	0.33	0.35	Max.4	IS:5182 (PART-10)
12	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	16.88	16.90	16.92	16.90	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory



Idma Laboratories Limited

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TEST REPORT

LAB NO.	020625N-E-007	Page No.1/1
Customer	1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}	
Work Order No.	4000358540-108-1040 Date: 24.04.2025	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.05.2025	
Location of Sampling	ODERNA	
Date of Receiving of sample	30.05.2025	
Period of Analysis	30.05.2025 to 02.06.2025	
Date of Reporting	02.06.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	µg/m ³	64.7	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	µg/m ³	29.2	Max. 60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	µg/m ³	11.5	Max. 80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO ₂)	µg/m ³	14.1	Max. 80	IS:5182 (PART-6)			
5	Ammonia(NH ₃)	µg/m ³	8	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m ³	<0.1	Max. 6	EPA/625/R-96/010A			
7	Lead	µg/m ³	0.09	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m ³	<1	Max. 20	EPA/625/R-96/010A			
9	Benzeneas C ₆ H ₆	µg/m ³	0.92	Max. 5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m ³	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			0-8 hrs	8-16 hrs	16-24 hrs			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.36	0.33	0.32	0.34	Max. 4	IS:5182 (PART-10)
12	Ozone (O ₃)	µg/m ³	16.58	16.60	16.62	16.60	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

LAB NO.		050625N-E-007				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		29.05.2025						
Location of Sampling		ODERNA						
Date of Receiving of sample		02.06.2025						
Period of Analysis		02.06.2025 to 05.06.2025						
Date of Reporting		05.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	65			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.1			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	11.7			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.3			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.2			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.5	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.11			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.94			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.38	0.35	0.34	0.36	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	16.78	16.80	16.82	16.80	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



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TEST REPORT

LAB NO.		260525N-E-008				Page No.1/1		
Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		20.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		23.05.2025						
Period of Analysis		23.05.2025 to 26.05.2025						
Date of Reporting		26.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	60.8			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.1			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.4			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.6			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.12			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.11			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.38	0.35	0.34	0.36	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	18.08	18.10	18.12	18.10	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



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Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		22.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		26.05.2025						
Period of Analysis		26.05.2025 to 29.05.2025						
Date of Reporting		29.05.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.9			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.6			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.9			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.5			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	9.1			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.14			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.13			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.40	0.37	0.36	0.38	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	18.58	18.60	18.62	18.60	Max. 180	IS:5182 (PART-9)

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Customer		1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}						
Work Order No.		4000358540-108-1040 Date: 24.04.2025						
Type of Sample		Ambient Air						
Quantity		1						
Packing,Markings		Filter Paper packed in Polythene Pouch						
Mode of collection of Sample		Sampling by Laboratories						
Sample Collected by		Idma Lab Representative						
Date of Sampling		27.05.2025						
Location of Sampling		SIRKA						
Date of Receiving of sample		30.05.2025						
Period of Analysis		30.05.2025 to 02.06.2025						
Date of Reporting		02.06.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Specification	Test Method	
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	61.1			Max. 100	IS:5182 (PART-23)	
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.4			Max.60	IDL/SP/03,ISSUENO-1	
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	12.6			Max.80	IS:5182 (PART-2)	
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	14.2			Max.80	IS:5182 (PART-6)	
5	Ammonia(NH ₃)	$\mu\text{g}/\text{m}^3$	8.8			Max. 400	IS:5182 (PART-25)	
6	Arsenic	ng/m^3	<0.1			Max.6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.13			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	ng/m^3	<1			Max.20	EPA/625/R-96/010A	
9	Benzeneas C ₆ H ₆	$\mu\text{g}/\text{m}^3$	1.12			Max.5	IS:5182 (PART-11)	
10	Benzo-a-pyrene	ng/m^3	<1			Max. 1.0	IS:5182 (PART-12)	
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m^3	0.39	0.36	0.35	0.37	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	18.28	18.30	18.32	18.30	Max. 180	IS:5182 (PART-9)

End of Report

Reviewed by



Authorised Signatory



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TEST REPORT

LAB NO.	050625N-E-008	Page No.1/1
Customer	1040PakriBarwadihCMP,SikrisiteOffice,P.O.BarkagaHazaribag-JHARKHAND, Jharkhand-825311, INDIA. {SSC - Coal Mining (Ranchi)}	
Work Order No.	4000358540-108-1040 Date: 24.04.2025	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	29.05.2025	
Location of Sampling	SIRKA	
Date of Receiving of sample	02.06.2025	
Period of Analysis	02.06.2025 to 05.06.2025	
Date of Reporting	05.06.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S. No.	Test Parameters	Units	Results	Specification	Test Method			
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter (PM10)	µg/m ³	61.4	Max. 100	IS:5182 (PART-23)			
2	Particulate Matter (PM2.5)	µg/m ³	30.3	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	µg/m ³	12.8	Max.80	IS:5182 (PART-2)			
4	Nitrogen Dioxide (NO ₂)	µg/m ³	14.4	Max.80	IS:5182 (PART-6)			
5	Ammonia(NH ₃)	µg/m ³	9	Max. 400	IS:5182 (PART-25)			
6	Arsenic	ng/m ³	<0.1	Max.6	EPA/625/R-96/010A			
7	Lead	µg/m ³	0.15	Max. 1.0	EPA/625/R-96/010A			
8	Nickel	ng/m ³	<1	Max.20	EPA/625/R-96/010A			
9	Benzeneas C ₆ H ₆	µg/m ³	1.14	Max.5	IS:5182 (PART-11)			
10	Benzo-a-pyrene	ng/m ³	<1	Max. 1.0	IS:5182 (PART-12)			
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
11	Carbon Monoxide (CO)	mg/m ³	0.41	0.38	0.37	0.39	Max.4	IS:5182 (PART-10)
12	Ozone (O ₃)	µg/m ³	18.48	18.50	18.52	18.50	Max. 180	IS:5182 (PART-9)

EndofReport

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmab.co.in

Disclaimer :

- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise stated.
- Total liability of Idma Laboratories Limited is limited to the invoiced amount.
- If sample(s) not consumed, they will be stored & retained as per Company Policy/ Quality System Procedure.
- The Test Report shall not be reproduced except in full without the written approval of the laboratory.
- The Test Report is intended only for guidance & not for legal purpose or for advertisement.
- The Test Report in full or parts shall not be used for promotional or publicity purpose.
- Legal disputes are subject to Panchkula Jurisdiction only.
- Any complaint/discrepancies in this Test Report should be communicated in writing within 15 days of the dispatch of Test Report.
- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall prevail.
- In case of any feedback/complaints, please send email to testing@idmagroup.co.in or call at 0172 - 5064827 / 5064830

Serial No. 16

**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 107/2025**

IN THE MATTER OF:

Mantu Soni

...Applicant

Versus

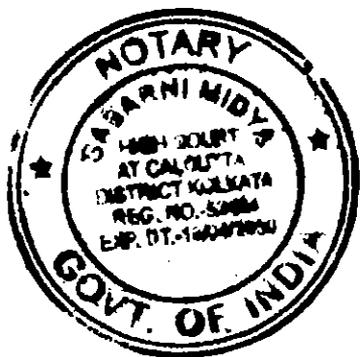
State of Jharkhand & Ors.

...Respondent

AFFIDAVIT OF COMPETENCY

I, Birendra Kumar, Son of Late Raghuram, aged about 51 years, working as Additional General Manager in the office of NTPC Limited, Pakri Barwadih Coal Mining Project, Site Office - Sikri, Post Office and Police Station - Barkagaon, District- Hazaribagh, Jharkhand 825311, presently camping at 10, Old Post Office Street, Room No. 110/1, Kolkata - 700001 do hereby solemnly affirm and say as follows :-

1. I am the Additional General Manager and authorized representative of the Answering Respondent No.4 Company and am fully acquainted with the facts and circumstances of the case. I am also duly authorised and competent to affirm this affidavit and accordingly I depose to the same.
2. By virtue of my power and authority as aforesaid, I am competent to affirm this affidavit on behalf of the NTPC Ltd the Applicant herein. Xerox copy of the authorization letter is annexed herewith and marked as annexure "X".



14 JUL 2025

3. That the statements contained in paragraphs 1 and 2 of the foregoing affidavit are true to my knowledge.

Birendra Kumar

Deponent

Prepared in my office

Mamandur
Advocate

वीरेन्द्र कुमार / BIRENDRA KUMAR
अपर महासंचालक / ADDL. GENERAL MANAGER
(पर्यावरण प्रबंधन) / (ENVIRONMENT MANAGEMENT)
कोयला खनन परियोजनाएँ / COAL MINING PROJECTS
एनटीपीसी लिमिटेड / NTPC Limited
हाज़ारिबाग / HAZARIBAG

Solemnly Affirmed & Declared
before me in identification
Sabarni Midya
Sabarni Midya, Notary
Reg. No.-52424 Govt. of India
High Court at Calcutta



14 JUL 2025

