Additional Annexure-17

During Mining Land Use Details (CL. NO. 6.1.2 OF MP&MCP):

Type	Land use (Proposed)	Land Use (End of Life)	Land Use (Post Closure)						
			Agricultural land	Plantation	Water Body	Public / Company Use	Forest Land (Returned)	Undisturbed	Total
Excavation Area									-
Backfilled Area									-
Excavated Void									-
Without plantation									-
Top Soil Dump	0.50	0.50		0.50					**0.50**
External Dump	0.60	0.60		0.60					**0.60**
Safety Zone	0.30	0.30		0.30					**0.30**
Haul Road between quarries									-
Road diversion									-
Diversion / below River / Nala / canal									-
Settling pond	0.20	0.20			0.20				**0.20**
Road and Infrastructure area	8.40	8.40				8.40			**8.40**
Rationalization area									-
Garland drains	0.60	0.60		0.60					**0.60**
Embankment									-
Green Belt	5.90	5.90		5.90					**5.90**
Water Reservoir near pit									-
UG entry	0.40	0.40		0.40					**0.40**
Undisturbed/ Mining right for UG	641.93	641.93					12.73	629.20	**641.93**
Resettlement									-
Pit head power plant									-
Water harvesting									-
Agricultural land									-
Total (Ha)	**658.83**	**658.83**	**-**	**8.30**	**0.20**	**8.40**	**12.73**	**629.20**	**658.83**
	(~659)	**(~659)**	**-**						**(~659)**

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(B.D. SHARMA)
Project Coordinator (PC)

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Additional Annexure-18

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Report on

DGPS survey for finalization of block boundary coordinates and preparation of final Block boundary plan of **Sahapur East** Coal Block

जनवरी – 2025

5 DECADES OF UNEARTHING ENERGY

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Project Coordinator (PC)

Prepared By Min Mec Consultancy Pvt Ltd On 23/06/2025

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Report on

DGPS survey for finalization of block boundary coordinates and preparation of final Block boundary plan of **Sahapur East** Coal Block

जनवरी – 2025

सर्वेक्षण एवं आरेखण विभाग
जियोमेटिक्स डिविजन
सी.एम.पी.डी.आई. (मुख्यालय)

Mining Plan Prepared by me
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Project Coordinator (PC)

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INDEX

TABLES

ANNEXURE

DRAWINGS

Drawing No.	Subject
HQS&DN25031	DGPS plan Showing Coal block boundary & Cardinal points of Sahapur East Coal Block (Scale – 1:5000)

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Report on DGPS survey for finalization of block boundary coordinates and preparation of final Block boundary plan of Sahapur East Coal Block

1.0 Introduction

Nominated Authority, Ministry of Coal, Government of India directed CMPDI vide e-mail dated 02.12.2024 (Annexure-1) to complete DGPS survey of twenty Coal Blocks which are under auction process under 11th round of commercial Coal Block auction. Details of these blocks are as follows:

Sl. No	Name of Coal Block	Coalfield	State
1.	Banai	Mand Raigarh	Chhattisgarh
2.	Bhalumuda	Mand Raigarh	Chhattisgarh
3.	Bhandak West	Wardha Valley	Maharashtra
4.	Chainpur	Mand Raigarh	Chhattisgarh
5.	Chikhaldhokra	Bander	Maharashtra
6.	Dahegaon Makardhokra-IV Revised	Umrer	Maharashtra
7.	Jawardaha North	Rajmahal	Jharkhand
8.	Jawardaha South	Rajmahal	Jharkhand
9.	Margo East	Rajmahal	Jharkhand
10.	Margo West	Rajmahal	Jharkhand
11.	Marwatola-I	Sohagpur	Madhya Pradesh
12.	Marwatola-II	Sohagpur	Madhya Pradesh
13.	Namchik East	Namchik Namphuk	Arunachal Pradesh
14.	Namchik West	Namchik Namphuk	Arunachal Pradesh
15.	Sahapur East	Sohagpur	Madhya Pradesh
16.	Saradhapur Jaltap East	Talcher	Odisha
17.	Saradhapur Jaltap West	Talcher	Odisha
18.	Seregarha	North Karnpura	Jharkhand
19.	Simaria Revised	Umaria	Madhya Pradesh
20.	Vijay Central	Sendurgarh	Chhattisgarh

2.0 Team Deputation

In view of directive given by Nominated Authority, Ministry of Coal, Government of India, Geomatics division CMPDI deputed a survey team at Sahapur East Coal Block wef 21.01.2025 to 22.01.2025 for DGPS Survey to verify the boundary coordinates ascertained based on geological boundary.

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The geological boundary has also been verified by satellite imagery and Survey of India maps.

3.0 Location

Sahapur East Coal Block is located in Sohagpur Coalfield in Umaria and Shahdol District, Madhya Pradesh State. The block is well connected by road. National Highway 543 passes 2 km east of the block. The nearest railway station Shahdol is located at a distance of about 12 km south-east of the block on Anuppur-Chirimiri & Bilaspur-Katni broad gauge line of South East Central Railway.

4.0 Methodology

Execution of the job was done by Differential Global Positioning System.

The Global Positioning System (GPS) is a satellite-based location, timing and navigation system in all weather conditions, anywhere on or near the Earth where there is an unobstructed line of sight to four or more GPS satellites. Presently, 32 orbiting satellites of GPS constellation of USA and 24 GLONASS (Globalnaya navigatsionnaya sputnikovaya sistema or Global Navigation Satellite System) satellites of Russia are operational for the purpose of GPS survey.

The Global Positioning System is made up of three parts: satellites orbiting the Earth; control and monitoring stations on Earth; and the GPS receivers owned by users. GPS satellites transmit three information – the satellite's number, its position in space, and the time. These signals are picked up by the GPS receiver on ground. With signals from three or more satellites, a GPS receiver can triangulate its location on the ground (i.e., longitude and latitude) from the known position of the satellites. With four or more satellites, a GPS receiver can determine a 3D position (i.e., latitude, longitude, and elevation).

Differential Global Positioning System (DGPS) refers to using two or more GPS receivers to achieve greater positional accuracy. Basic methods of DGPS survey are Static, Rapid-Static, Real-time Kinematic (RTK), Real-time Kinematic with smart link.

For the job, real-time kinematic (RTK) with smart link method was used for verification of cardinal points of the Sahapur East Coal Block. In RTK survey

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with smart link facility, which is a subscription based service, the real time correction is derived from satellite.

In static surveys, one GPS receiver is used as base Station and other GPS receivers can be used as Rover stations. Base receiver is stationed at a point of known co-ordinates for longer duration and the rover stations are kept at unknown stations for comparatively shorter duration. Data from Base and rovers are then post-processed in GPS data processing software to achieve sub-centrimetre level accuracies, especially in case of dual-frequency GPS receivers, which is in possession of CMPDI.

ArcGIS software was used for preparation of shape file in WGS-84 and UTM co-ordinates.

5.0 Survey Instrument

For the job DGPS with smart link facility was used. Brief specifications of the DGPS are as follows:

(A) INSTRUMENT:	
Make	Leica
Model	GS25 (Base Receiver), GS16 (Rover Receivers)

Signal	GPS: L1, L2 L2C & L5, GLONASS: L1, L2 & L3 GALILEO: E1, E5a, E5b, Alt-BOC & E6 BeiDou : B1, B2 & B3 QZSS: L1, L2, L5 & LEX NacIC : L5 SBAS: WAAS, EGNOS,MSAS, GAGAN L-band
Channels	555
Accuracy :	
Post Processed Static DGPS	3mm +0.1ppm horizontal, 3.5mm + 0.4 ppm vertical
Real Time RTK	8mm + 1 ppm horizontal, 15mm + 1 ppm vertical
RTK with Smart Link facility	± 3 cm horizontal
Power:	
Internal Battery	Exchangeable Li-Ion, 2.6Ah, 7.4V
Communication :	
Bluetooth	Bluetooth standard 1.2
USB	1.1 Version
(B) SOFTWARE	
	i) Leica Captivate for data recording
	ii) Leica infinity for data processing

6.0 Details of Field Activity

(a) Reconnaissance survey was done after reaching the site.

(b) The verification of cardinal points by DGPS was conducted from 21.01.2025 to 22.01.2025.

The cardinal points of Sahapur East Coal Block after verification are tabulated in Table No.1 on following pages.

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TABLE - 1		
Station Name	Geographic Co-ordinates (WGS-84) of Cardinal Points	
	Longitude	Latitude
P1	81° 18' 51.693" E	23° 14' 19.752" N
P2	81° 18' 48.162" E	23° 14' 19.745" N
P3	81° 18' 48.123" E	23° 14' 23.071" N
P4	81° 18' 48.085" E	23° 14' 26.397" N
P5	81° 18' 48.047" E	23° 14' 29.724" N
P6	81° 18' 48.008" E	23° 14' 33.050" N
P7	81° 18' 47.970" E	23° 14' 36.376" N
P8	81° 18' 47.931" E	23° 14' 39.702" N
P9	81° 18' 47.893" E	23° 14' 43.028" N
P10	81° 18' 47.855" E	23° 14' 46.354" N
P11	81° 18' 47.816" E	23° 14' 49.680" N
P12	81° 18' 47.778" E	23° 14' 53.006" N
P13	81° 18' 47.739" E	23° 14' 56.332" N
P14	81° 18' 47.701" E	23° 14' 59.658" N
P15	81° 18' 47.662" E	23° 15' 2.984" N
P16	81° 18' 47.624" E	23° 15' 6.310" N
P17	81° 18' 47.586" E	23° 15' 9.636" N
P18	81° 18' 47.547" E	23° 15' 12.963" N
P19	81° 18' 47.509" E	23° 15' 16.289" N
P20	81° 18' 47.470" E	23° 15' 19.615" N
P21	81° 18' 47.432" E	23° 15' 22.941" N
P22	81° 18' 47.393" E	23° 15' 26.267" N
P23	81° 18' 47.355" E	23° 15' 29.593" N
P24	81° 18' 47.317" E	23° 15' 32.919" N
P25	81° 18' 50.911" E	23° 15' 32.932" N
P26	81° 18' 54.438" E	23° 15' 32.951" N
P27	81° 18' 57.965" E	23° 15' 32.971" N
P28	81° 19' 1.491" E	23° 15' 32.990" N

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Station Name	Geographic Co-ordinates (WGS-84) of Cardinal Points	
	Longitude	Latitude
P29	81° 19' 5.018" E	23° 15' 33.009" N
P30	81° 19' 8.544" E	23° 15' 33.028" N
P31	81° 19' 12.071" E	23° 15' 33.048" N
P32	81° 19' 15.598" E	23° 15' 33.067" N
P33	81° 19' 19.124" E	23° 15' 33.086" N
P34	81° 19' 22.651" E	23° 15' 33.105" N
P35	81° 19' 26.177" E	23° 15' 33.125" N
P36	81° 19' 29.704" E	23° 15' 33.144" N
P37	81° 19' 33.231" E	23° 15' 33.163" N
P38	81° 19' 36.757" E	23° 15' 33.182" N
P39	81° 19' 40.284" E	23° 15' 33.201" N
P40	81° 19' 43.810" E	23° 15' 33.220" N
P41	81° 19' 47.337" E	23° 15' 33.239" N
P42	81° 19' 50.864" E	23° 15' 33.258" N
P43	81° 19' 54.390" E	23° 15' 33.277" N
P44	81° 19' 57.917" E	23° 15' 33.296" N
P45	81° 20' 1.444" E	23° 15' 33.315" N
P46	81° 20' 4.970" E	23° 15' 33.334" N
P47	81° 20' 8.497" E	23° 15' 33.353" N
P48	81° 20' 12.023" E	23° 15' 33.372" N
P49	81° 20' 15.550" E	23° 15' 33.391" N
P50	81° 20' 19.077" E	23° 15' 33.410" N
P51	81° 20' 22.603" E	23° 15' 33.429" N
P52	81° 20' 26.130" E	23° 15' 33.448" N
P53	81° 20' 29.656" E	23° 15' 33.466" N
P54	81° 20' 30.319" E	23° 15' 33.470" N
P55	81° 20' 30.339" E	23° 15' 30.094" N
P56	81° 20' 30.360" E	23° 15' 26.718" N
P57	81° 20' 30.380" E	23° 15' 23.342" N

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Station Name	Geographic Co-ordinates (WGS-84) of Cardinal Points	
	Longitude	Latitude
P58	81° 20' 30.401" E	23° 15' 19.966" N
P59	81° 20' 30.421" E	23° 15' 16.590" N
P60	81° 20' 30.441" E	23° 15' 13.214" N
P61	81° 20' 30.462" E	23° 15' 9.838" N
P62	81° 20' 30.482" E	23° 15' 6.462" N
P63	81° 20' 30.503" E	23° 15' 3.086" N
P64	81° 20' 30.523" E	23° 14' 59.710" N
P65	81° 20' 30.544" E	23° 14' 56.334" N
P66	81° 20' 30.564" E	23° 14' 52.958" N
P67	81° 20' 30.585" E	23° 14' 49.582" N
P68	81° 20' 30.605" E	23° 14' 46.206" N
P69	81° 20' 30.625" E	23° 14' 42.830" N
P70	81° 20' 30.646" E	23° 14' 39.449" N
P71	81° 20' 30.666" E	23° 14' 36.069" N
P72	81° 20' 30.687" E	23° 14' 32.688" N
P73	81° 20' 30.707" E	23° 14' 29.308" N
P74	81° 20' 30.728" E	23° 14' 25.927" N
P75	81° 20' 30.748" E	23° 14' 22.546" N
P76	81° 20' 30.500" E	23° 14' 22.543" N
P77	81° 20' 30.557" E	23° 14' 19.943" N
P78	81° 20' 27.026" E	23° 14' 19.937" N
P79	81° 20' 23.495" E	23° 14' 19.930" N
P80	81° 20' 19.964" E	23° 14' 19.924" N
P81	81° 20' 16.433" E	23° 14' 19.917" N
P82	81° 20' 12.903" E	23° 14' 19.910" N
P83	81° 20' 9.372" E	23° 14' 19.904" N
P84	81° 20' 5.841" E	23° 14' 19.897" N
P85	81° 20' 2.310" E	23° 14' 19.890" N
P86	81° 19' 58.779" E	23° 14' 19.884" N

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Station Name	Geographic Co-ordinates (WGS-84) of Cardinal Points	
	Longitude	Latitude
P87	81° 19' 55.248" E	23° 14' 19.877" N
P88	81° 19' 51.717" E	23° 14' 19.870" N
P89	81° 19' 48.187" E	23° 14' 19.864" N
P90	81° 19' 44.656" E	23° 14' 19.857" N
P91	81° 19' 41.125" E	23° 14' 19.850" N
P92	81° 19' 37.594" E	23° 14' 19.843" N
P93	81° 19' 34.063" E	23° 14' 19.836" N
P94	81° 19' 30.532" E	23° 14' 19.829" N
P95	81° 19' 27.001" E	23° 14' 19.823" N
P96	81° 19' 23.470" E	23° 14' 19.816" N
P97	81° 19' 19.940" E	23° 14' 19.809" N
P98	81° 19' 16.409" E	23° 14' 19.802" N
P99	81° 19' 12.878" E	23° 14' 19.795" N
P100	81° 19' 9.347" E	23° 14' 19.788" N
P101	81° 19' 5.816" E	23° 14' 19.781" N
P102	81° 19' 2.285" E	23° 14' 19.774" N
P103	81° 18' 58.754" E	23° 14' 19.767" N
P104	81° 18' 55.224" E	23° 14' 19.760" N
P105	81° 18' 51.693" E	23° 14' 19.752" N

7.0 Area of the Block:

After verification and finalization of cardinal points of Sahapur East Coal Block, the area of the coal block is 658.83 Ha.

8.0 Documents Submitted

Following document is being submitted along with this report:

(i) Drg. No. HQ-S&D-N25031, showing Sahapur East Coal Block alongwith cardinal points (Scale – 1:5000).

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From: "Nominated Authority" <nomauthority.moc@nic.in>
To: "MANOJ KUMAR" <cmd.cmpdi.cil@coalindia.in>, "PRAMOD KUMAR" <gmumd.cmpdi@coalindia.in>, "CHIRANJIB PATRA" <chiranjib.patra@coalindia.in>
Cc: "Alok Verma" <alok.verma07@gov.in>, "Abhishek Kumar" <verma.abhishek12@gov.in>, "Sakshi Jain" <sakshi.jain@govcontractor.in>
Sent: Monday, December 2, 2024 11:21:34 AM
Subject: Clarifications/ Information Required - Nominated Authority and CMPDIL | 11th round of commercial auctions

Sir,

The undersign has been directed to request for your assistance in providing clarifications and addressing pending deliverables related to the following coal mines for the upcoming the 2nd attempt of the 10th round of auctions & the 11th round of commercial coal block auctions scheduled to be launched on December 05, 2024:

1. Pending Summarised Information, Mine Summary, and Mine Dossiers:

The following coal mines are to be offered in the 2nd attempt of the 10th round, but the summarised information, mine summaries, and mine dossiers have not been received:

i. Bicharpur South
ii. Senduri
iii. Tangardihi North
iv. Ustali North
v. Bhatgaon II Extension (Bojha)
vi. Tandsi-III & Tandsi-III Extension
vii. West of Baisi (Revised)

2. Mine Dossier for Chainpur Coal Mine:

The mine dossier for Chainpur coal mine has not been provided.

Additionally, the production schedule for Chainpur coal mine shows a drastic drop in Year 18 to 0.72 MTPA from 5.90 MTPA in Year 17, followed by an increase to 1.70 MTPA in Year 19, eventually reaching 2.90 MTPA by Year 25. Kindly confirm whether this production schedule is accurate or requires modification.

3. Revised Geological Reports (GR):

The summarised information mentions that the GR needs revision for Dahegaon Makardhokra-IV (Revised) and Simaria (Revised). Please provide the estimated timeline for preparing the revised GRs for these fully explored coal mines.

4. Terminated Coal Mines Information:

Summarised Information, Mine Summary, and Mine Dossiers are required for the following terminated coal mines:

Banai – Bhalumunda (both to be offered as single block)
Sahapur East

5. Proposed Method of Mining:

Kindly provide the names of the coal mines proposed to adopt underground mining. This information is crucial as underground mines qualify for a 50% rebate in Performance Security and must be communicated to bidders upfront.

6. KML Files and Drone Flythrough Videos:

Please provide the links for KML files and drone flythrough videos for all the offered coal mines, i.e., 20 coal mines under the 11th round and 7 coal mines under the 2nd attempt of the 10th round.

7. DGPS Surveys:

Kindly share the DGPS survey data for all the offered coal mines, i.e., 20 coal mines under the 11th round and 7 coal mines under the 2nd attempt of the 10th round.

Looking forward to your response.
--

Best Regards,

अभिषेक कुमार वर्मा/Abhishek Kumar Verma
अनुभाग अधिकारी/Section Officer
नामनिर्दिष्ट प्राधिकारी का कार्यालय / Office of Nominated Authority
कोयला मंत्रालय / Ministry of Coal
शास्त्री भवन, नई दिल्ली-110001 / Shastri Bhawan, New Delhi-110001
संपर्क / Contact no: 011 23384106

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list of 27 coal blocks (20 under 11th and 7 under 2nd attempt).pdf
569 KB

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झलकियाँ *(1/2)*

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झलकियाँ *(2/2)*

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DGPS PLAN OF SAHAPUR EAST COAL BLOCK BOUNDARY, SOHAGPUR COALFIELD, MADHYA PRADESH

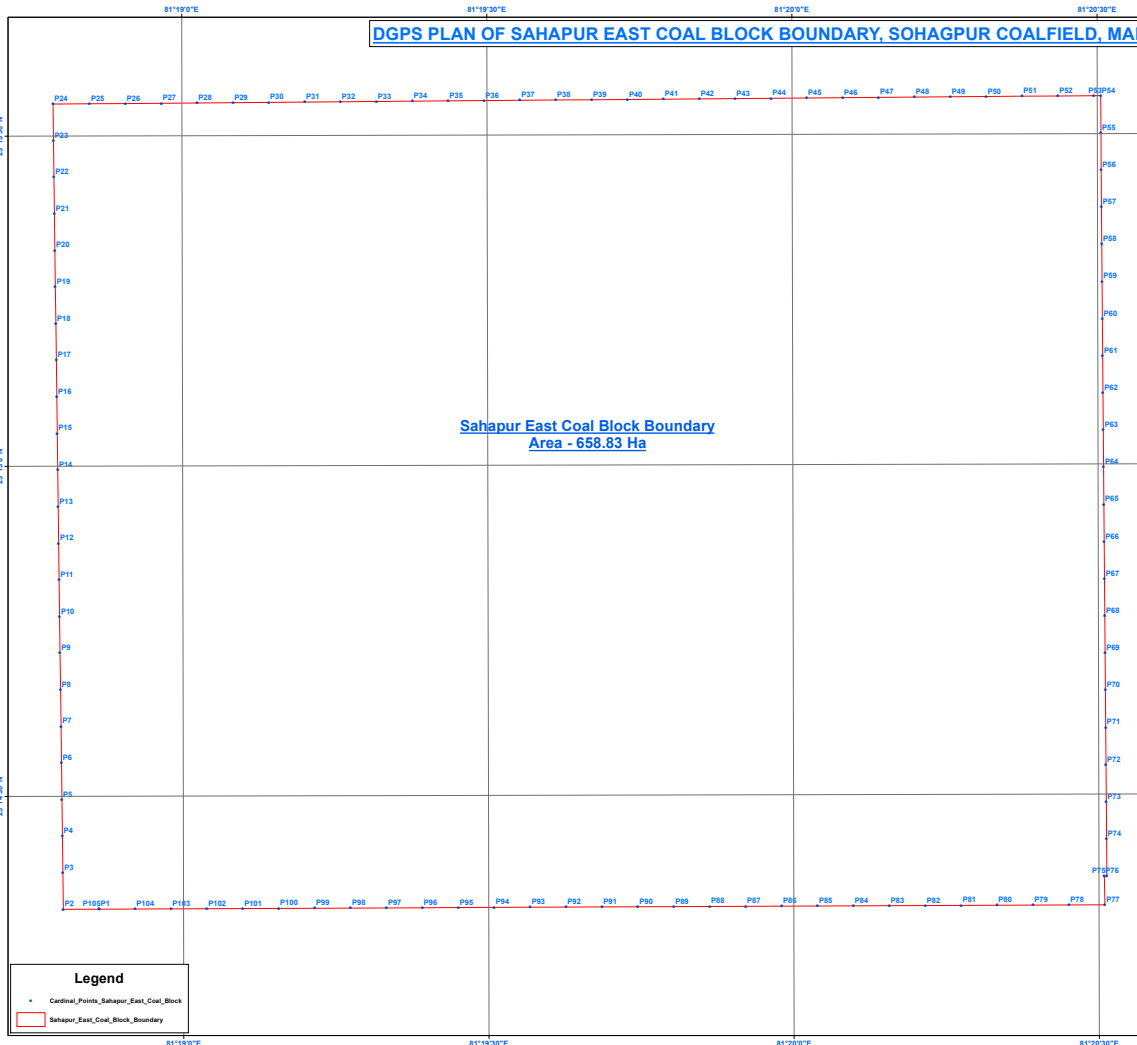

Table-I

List of Geographical Coordinates (in WGS84) of Cardinal Points of Sahapur East Coal Block Boundary

Cardinal Point	WGS 84 Coordinates		Cardinal Point	WGS 84 Coordinates	
	Longitude	Latitude		Longitude	Latitude
P1	81° 18' 51.693" E	23° 14' 19.752" N	P54	81° 20' 30.319" E	23° 15' 33.470" N
P2	81° 18' 48.162" E	23° 14' 19.745" N	P55	81° 20' 30.339" E	23° 15' 30.094" N
P3	81° 18' 48.123" E	23° 14' 23.071" N	P56	81° 20' 30.360" E	23° 15' 26.718" N
P4	81° 18' 48.085" E	23° 14' 26.397" N	P57	81° 20' 30.380" E	23° 15' 23.342" N
P5	81° 18' 48.047" E	23° 14' 29.724" N	P58	81° 20' 30.401" E	23° 15' 19.966" N
P6	81° 18' 48.008" E	23° 14' 33.050" N	P59	81° 20' 30.421" E	23° 15' 16.590" N
P7	81° 18' 47.970" E	23° 14' 36.376" N	P60	81° 20' 30.441" E	23° 15' 13.214" N
P8	81° 18' 47.931" E	23° 14' 39.702" N	P61	81° 20' 30.462" E	23° 15' 9.838" N
P9	81° 18' 47.893" E	23° 14' 43.028" N	P62	81° 20' 30.482" E	23° 15' 6.462" N
P10	81° 18' 47.855" E	23° 14' 46.354" N	P63	81° 20' 30.503" E	23° 15' 3.086" N
P11	81° 18' 47.816" E	23° 14' 49.680" N	P64	81° 20' 30.523" E	23° 14' 59.710" N
P12	81° 18' 47.778" E	23° 14' 53.006" N	P65	81° 20' 30.544" E	23° 14' 56.334" N
P13	81° 18' 47.739" E	23° 14' 56.332" N	P66	81° 20' 30.564" E	23° 14' 52.958" N
P14	81° 18' 47.701" E	23° 14' 59.658" N	P67	81° 20' 30.585" E	23° 14' 49.582" N
P15	81° 18' 47.662" E	23° 15' 2.984" N	P68	81° 20' 30.605" E	23° 14' 46.206" N
P16	81° 18' 47.624" E	23° 15' 6.310" N	P69	81° 20' 30.625" E	23° 14' 42.830" N
P17	81° 18' 47.586" E	23° 15' 9.636" N	P70	81° 20' 30.646" E	23° 14' 39.449" N
P18	81° 18' 47.547" E	23° 15' 12.963" N	P71	81° 20' 30.666" E	23° 14' 36.069" N
P19	81° 18' 47.509" E	23° 15' 16.289" N	P72	81° 20' 30.687" E	23° 14' 32.688" N
P20	81° 18' 47.470" E	23° 15' 19.615" N	P73	81° 20' 30.707" E	23° 14' 29.308" N
P21	81° 18' 47.432" E	23° 15' 22.941" N	P74	81° 20' 30.728" E	23° 14' 25.927" N
P22	81° 18' 47.393" E	23° 15' 26.267" N	P75	81° 20' 30.748" E	23° 14' 22.546" N
P23	81° 18' 47.355" E	23° 15' 29.593" N	P76	81° 20' 30.500" E	23° 14' 22.543" N
P24	81° 18' 47.317" E	23° 15' 32.919" N	P77	81° 20' 30.557" E	23° 14' 19.943" N
P25	81° 18' 50.911" E	23° 15' 32.932" N	P78	81° 20' 27.026" E	23° 14' 19.937" N
P26	81° 18' 54.438" E	23° 15' 32.951" N	P79	81° 20' 23.495" E	23° 14' 19.930" N
P27	81° 18' 57.965" E	23° 15' 32.971" N	P80	81° 20' 19.964" E	23° 14' 19.924" N
P28	81° 19' 1.491" E	23° 15' 32.990" N	P81	81° 20' 16.433" E	23° 14' 19.917" N
P29	81° 19' 5.018" E	23° 15' 33.009" N	P82	81° 20' 12.903" E	23° 14' 19.910" N
P30	81° 19' 8.544" E	23° 15' 33.028" N	P83	81° 20' 9.372" E	23° 14' 19.904" N
P31	81° 19' 12.071" E	23° 15' 33.048" N	P84	81° 20' 5.841" E	23° 14' 19.897" N
P32	81° 19' 15.598" E	23° 15' 33.067" N	P85	81° 20' 2.310" E	23° 14' 19.890" N
P33	81° 19' 19.124" E	23° 15' 33.086" N	P86	81° 19' 58.779" E	23° 14' 19.884" N
P34	81° 19' 22.651" E	23° 15' 33.105" N	P87	81° 19' 55.248" E	23° 14' 19.877" N
P35	81° 19' 26.177" E	23° 15' 33.125" N	P88	81° 19' 51.717" E	23° 14' 19.870" N
P36	81° 19' 29.704" E	23° 15' 33.144" N	P89	81° 19' 48.187" E	23° 14' 19.864" N
P37	81° 19' 33.231" E	23° 15' 33.163" N	P90	81° 19' 44.656" E	23° 14' 19.857" N
P38	81° 19' 36.757" E	23° 15' 33.182" N	P91	81° 19' 41.125" E	23° 14' 19.850" N
P39	81° 19' 40.284" E	23° 15' 33.201" N	P92	81° 19' 37.594" E	23° 14' 19.843" N
P40	81° 19' 43.810" E	23° 15' 33.220" N	P93	81° 19' 34.063" E	23° 14' 19.836" N
P41	81° 19' 47.337" E	23° 15' 33.239" N	P94	81° 19' 30.532" E	23° 14' 19.829" N
P42	81° 19' 50.864" E	23° 15' 33.258" N	P95	81° 19' 27.001" E	23° 14' 19.823" N
P43	81° 19' 54.390" E	23° 15' 33.277" N	P96	81° 19' 23.470" E	23° 14' 19.816" N
P44	81° 19' 57.917" E	23° 15' 33.296" N	P97	81° 19' 19.940" E	23° 14' 19.809" N
P45	81° 20' 1.444" E	23° 15' 33.315" N	P98	81° 19' 16.409" E	23° 14' 19.802" N
P46	81° 20' 4.970" E	23° 15' 33.334" N	P99	81° 19' 12.878" E	23° 14' 19.795" N
P47	81° 20' 8.497" E	23° 15' 33.353" N	P100	81° 19' 9.347" E	23° 14' 19.788" N
P48	81° 20' 12.023" E	23° 15' 33.372" N	P101	81° 19' 5.816" E	23° 14' 19.781" N
P49	81° 20' 15.550" E	23° 15' 33.391" N	P102	81° 19' 2.285" E	23° 14' 19.774" N
P50	81° 20' 19.077" E	23° 15' 33.410" N	P103	81° 18' 58.754" E	23° 14' 19.767" N
P51	81° 20' 22.603" E	23° 15' 33.429" N	P104	81° 18' 55.224" E	23° 14' 19.760" N
P52	81° 20' 26.130" E	23° 15' 33.448" N	P105	81° 18' 51.693" E	23° 14' 19.752" N
P53	81° 20' 29.656" E	23° 15' 33.466" N			

5 DECADES OF UNEARTHING ENERGY

Project	DGPS survey for finalization of block boundary coordinates and preparation of final Block boundary plan of Sahapur East Coal Block				
Subject	Activity	Name	Designation	Signature	Date
Plan Showing Coal Block Boundary and Cardinal Points of Sahapur East, Sohagpur Coalfield, Madhya Pradesh	Surveyed / Processed by	S.Mandal	Sr. Surveyor(M)		25/01/25
		A.K.Suman	Ch. Manager(M)		25/01/25
	Checked by	S.K. Dixit	GM (Mining)		25/01/25
	Approved by	M.Rastogi	GM (Geomatics)		25/01/25
	Scale - 1:5,000			Sheet	1 of 1
	Drg No. - HQS&DN25031			REV. No. - 0	

Mining Plan Prepared by me
(B.D. SHARMA)
Project Coordinator (PC)

Prepared By Min Mec Consultancy Pvt Ltd On 23/06/2025

From: RAJIVA KUMAR SINGH <gmexpl.cmpdi@coalindia.in>
Sent: 16 May 2025 16:01
To: PRAMOD KUMAR <gmumd.cmpdi.cil@coalindia.in>
Cc: k.bose@maheshwaree.com <k.bose@maheshwaree.com>; utsav.mukherjee@maheshwaree.com <utsav.mukherjee@maheshwaree.com>; shweta vashist <shweta.vashist@maheshwaree.com>
Subject: Re: Submission Regarding Discrepancies in Sahapur East Block Boundary

Sir,
With respect to your letter dated: 02.05.2025, it is to mention that the area of the Shahpur East coal block as mentioned in mine summary is 659 Ha. The same block boundary is certified by CMPDI dated 30.08.2021.
The required floor contour plans are attached above.

Kindly confirm the receipt of data at your end.

भवदीय,
राजीव कुमार सिंह
महाप्रबन्धक (गवेषण)
सी.एम.पी.डी.आई (कोल इंडिया लिमिटेड की एक सहायक कम्पनी)
रांची, झारखंड - 834031.
e-Mail : gmexpl.cmpdi@coalindia.in
Contact: +91-8969397892 / 898778878
An ISO 9001: 2015 & ISO 37001: 2016 Certified Company

Additional Annexure-19

Mine Closure Cost: Cost of Activities to be taken up for Closure of the Mines

(as per Clause No. 8.10.1 of Chapter-8 of the Mining Plan & Mine Closure Plan)

Head	Particulars	Unit	Proposed Mine Closure Activities Cost		
			Quantity	Rate ₹ / Unit	Amount "Rs. Cr"
A. Progressive Closure	Barbed wire fencing around the mine (Pit and Dump)	m	810.00	1,500	0.122
	Waste Management	Mcum	0.10	6,00,00,000	0.600
	Filing of Void - Rehandling of Dump (Not carried out as part of regular mining operation)				-
	Top soil Management	MCum	0.02	5,00,00,000	0.100
	Technical and Biological Reclamation of mined out land and OB Dump.				-
	Plantation over Virgin Area including green belt	Ha	5.90	2,00,000	0.118
	Manpower Cost and supervision	Heads	200.00	5,00,000	10.000
	Toe wall around the dump	m	500.00	1,000	0.050
	Garland Drain	m	310.00	500	0.016
	Stowing				-
	Subsidence Monitoring and Management				-
	Isolation Stoppings	Nos.	504	500	0.025
	Any other activities	LS	1.00	10,00,000	0.100
Sub Total (A)			**2,331.02**	**11,17,03,500**	**11.130**
B. Post Closure Activities					
Dismentaling of infrastrucure & Disposal / rehabilitation of mining Machinery	Dismentling of workshop	LS	1.00	10,00,000	0.100
	Dismantling of CHP	LS	1.00	10,00,000	0.100
	Dismantling of mine structures	LS	1.00	10,00,000	0.100
	Dismantling of Civil structures				
	Rehabilitation of the dismentaled facilities	LS	1.00	50,00,000	0.500
	Dismentaling of pump and pipes / other facilities.	LS	1.00	10,00,000	0.100
	Dismentaling of stowing bunker, provisioning of pumps for borewell pumping arrangement				-
	Dismentaling of UG equipment	LS	1.00	10,00,000	0.100
	Rearranging water pipeline to dump top park / Agricultur land	LS	1.00	10,00,000	0.100
	Dismentaling of power lines.	LS	1.00	25,00,000	0.250
	Sub Total		**8.00**	**1,35,00,000**	**1.350**
Safety and Security	Barbed wire fencing around mine (Pit and dumps)				-
	Concrete wall with masonry / concrete pillars around the pit	m	1,500.00	5,000	0.750
	Securing entries (shaft/inclines)	Nos.	1.00	3,00,000	0.030
	Securing of Inclines	Nos.	2.00	3,00,000	0.060
	Appropriate fencing around the water body				-
	Installation of bore well pump				-
	Stabilisation (viz. benching, pitching etc.) of side walls of the water body				-
	Toe Wall around the dump				-
	Garland drain				-
	Drainage Channel from main OB dump				-
	Sub Total		**1,503.00**	**6,05,000**	**0.840**
Technical and Biological Reclamation of mined out of land and OB Dump	Filling of Void				-
	OB Rehandling for backfilling				-
	Terracing, blanketing with soil and vegetation of Extremal OB Dump				-
	peripheral road, gates, view point, cemented steps on bank				-
	Expenditure on development of Agricultural land				-
	Landscaping and Plantation				-
	Sub Total				**-**
Post Closure management and supervision	Power Cost	LS	8.00	3,60,000	0.288
	Post mining water quality management	LS	12.00	50,00,000	6.000
	Post mining air quality management	LS	12.00	50,00,000	6.000
	Subsidence monitoring for 5 years	LS	15.00	10,00,000	1.500
	Manpower Cost and supervision	LS	458	40,000	1.832
	Sub Total		**505.00**	**1,14,00,000**	**15.620**
Sustainability	Skill Development and Trainings (Alternative Source of livelihood)	LS	1.00	1,00,00,000	1.000
	Fruit bearing, medicinal & local species plantation / Afforestation	LS	1.00	1,00,00,000	1.000
	Agriculture and other Allied Activities	LS	1.00	1,00,00,000	1.000
	Eco-Tourism Development	LS	1.00	1,00,00,000	1.000
	Flora and fauna Conservation/Wildlife conservation	LS			-
	Water Resource Management/Conservation	LS	1.00	1,00,00,000	1.000
	Clean Energy Projects	LS	1.00	1,00,00,000	1.000
	Art and Culture	LS	1.00	1,00,00,000	1.000
	Women Empowerment	LS	1.00	1,00,00,000	1.000
	Welfare of aged and disabled people	LS	1.00	1,00,00,000	1.000
	Sustainable Living	LS	1.00	1,00,00,000	1.000
	Sanitation	LS	1.00	1,00,00,000	1.000
	Sub Total		**11.00**	**11,00,00,000**	**11.000**
Sub Total (B)			**2,027.00**	**13,55,05,000**	**28.810**
Grand Total (A+B) "Rs. Cr."			**4,358.02**	**24,72,08,500**	**39.940**

Grand Total (A+B) "Rs. Cr."		4,358.02	24,72,08,500	39.940

Mining Plan Prepared by me
(B.D. SHARMA)
Project Coordinator (PC)

Financial Assurance : Amount to be deposited in Escrow account as a security against the mine activities to be carried out for the closure of the mine

(as per Clause No. 8.10.2 of Chapter-8 of the Mining Plan & Mine Closure Plan)

Amount to be deposited into Escrow				
Year	OC	Year	UG	Total
1	0	1	0.330	0.330
2	0	2	0.347	0.347
3	0	3	0.364	0.364
4	0	4	0.382	0.382
5	0	5	0.401	0.401
6	0	6	0.421	0.421
7	0	7	0.442	0.442
8	0	8	0.464	0.464
9	0	9	0.488	0.488
10	0	10	0.512	0.512
11	0	11	0.538	0.538
12	0	12	0.564	0.564
13	0	13	0.593	0.593
14	0	14	0.622	0.622
15	0	15	0.653	0.653
16	0	16	0.686	0.686
17	0	17	0.720	0.720
18	0	18	0.756	0.756
19	0	19	0.794	0.794
20	0	20	0.834	0.834
21	0	21	0.876	0.876
22	0	22	0.919	0.919
23	0	23	0.965	0.965
24	0	24	1.014	1.014
25	0	25	1.064	1.064
26	0	26	1.117	1.117
27	0	27	1.173	1.173
28	0	28	1.232	1.232
29	0	29	1.294	1.294
30	0	30	1.358	1.358
31	0	31	1.426	1.426
32	0	32	1.498	1.498
33	0	33	1.572	1.572
34	0	34	1.651	1.651
35	0	35	1.734	1.734
36	0	36	1.820	1.820
37	0	37	1.911	1.911
38	0	38	2.007	2.007
39	0	39	2.107	2.107
40	0	40	2.213	2.213
Total			**39.862**	**39.862**

WPI as on	Mar'25	154.70
WPI as on base date	May'24	153.50
Escalation rate of Closure cost		1.008

	UG
Base Rate of Closure Cost "Rs. Crs./Ha"	0.02
Closure Cost "Rs. Crs./Ha"	0.02
Project Area, Ha	659
Amount to be deposited into Escrow Account "Rs. in Crs"	13.18
Amount already deposited into Escrow Account "Rs. in Crs"	0
Net Amount to be deposited into Escrow Account "Rs. in Crs"	13.18
Rate of compounding of Annual Closure Cost	5%
Balance Life of the project "in Yrs"	40
Annual Closure Cost "Rs. in Cr."	0.33
in Crs"	39.862

Mining Plan Prepared by me
(B.D. SHARMA)
Project Coordinator (PC)

Additional Annexure-20

FEEDBACK AND REPLY FROM EXPERT REVIEWER

EXPERT REVIEWER: INDIAN MINE PLANNERS AND CONSULTANTS (IMPCON)
PROJECT PROPONENT: MINEWARE ADVISORS PRIVATE LIMITED (MAPL)

Section No.	Feedback / Remarks by IMPCON	Status	Correction / Remarks by MAPL
1.5.1	Reduction of area may be explained	Approve	The previously approved Mining Plan did not provide any base data for the area of 693 Ha. However, the area of 659 Ha (more precisely, 658.83 Ha) indicated in the proposed Mining Plan has been derived from the DGPS Survey Report, which is enclosed as Annexure-15.
1.5.2	Reduction of area may be explained	Approve	The previously approved Mining Plan did not provide any base data for the area of 693 Ha. However, the area of 659 Ha (more precisely, 658.83 Ha) indicated in the proposed Mining Plan has been derived from the DGPS Survey Report, which is enclosed as Annexure-15.
1.5.3	Reduction of area may be explained	Approve	The previously approved Mining Plan did not provide any base data for the area of 693 Ha. However, the area of 659 Ha (more precisely, 658.83 Ha) indicated in the proposed Mining Plan has been derived from the DGPS Survey Report, which is enclosed as Annexure-15.
1.5.4	Reduction of area may be explained	Approve	The previously approved Mining Plan did not provide any base data for the area of 693 Ha. However, the area of 659 Ha (more precisely, 658.83 Ha) indicated in the proposed Mining Plan has been derived from the DGPS Survey Report, which is enclosed as Annexure-15.
1.5.13	Blocked reserves has increased may be explained	Approve	The increase in blocked reserve is attributed to the revised underground panel layout and the adoption of fully continuous cutting technology.
1.5.15	Extractable reserves has increased even though blocked reserves has increased also may be explained	Approve	
1.5.19	Average grade has improved may be explained	Approve	The improvement in average grade may be attributed to the exclusion of Seam-IIIB in the proposed Mining Plan. In the previously approved plan, Seam-IIIB was included; however, in the current proposal, it has not been considered as the said seam is contiguous with it's upper Seam (Seam-IIIA) and has patchy seam with lower thickness. The grade of Seam-IIIB is relatively poor, and its exclusion has resulted in an overall enhancement in the average grade of the remaining targeted seams.
1.5.25.3	Topsoil Dump Area is not visible in plan	Reject	It is already projected in all plans.
1.5.15	Extractable reserves has increased, even though blocked reserves has increased also, may be explained	Approve	The increase in extractable reserves is primarily attributed to the change in mining methodology—from a semi-mechanised process to a fully mechanised mining system. Under the new plan, two Continuous Miner (CM) packages will be deployed

FEEDBACK AND REPLY FROM EXPERT REVIEWER

EXPERT REVIEWER: INDIAN MINE PLANNERS AND CONSULTANTS (IMPCON)
PROJECT PROPONENT: MINEWARE ADVISORS PRIVATE LIMITED (MAPL)

Section No.	Feedback / Remarks by IMPCON	Status	Correction / Remarks by MAPL
			to maximize coal extraction while maintaining strict adherence to safety standards. Previously, the cutting height was limited to 4.0 meters; however, in the current mining plan, coal extraction will be carried out up to the full seam thickness. Additionally, the gallery width has been increased from 4.8 meters to 6.0 meters. The panel layout has also been strategically designed to optimize coal recovery without compromising safety norms.
Annexure-2(B)	Survey Report Certification of block boundary by CMPDIL may be referred	Approve	Included
2.2.12	Sentence may be reframed for better clarity	Approve	Corrected
2.2.14.23	1point175 mt of coal is shown as blocked under nala or river or road which may be checked	Approve	This is the internal issue of GeM Portal. However, we have enclosed detailed in Annexure-11.
Plans/Plates	Plate 7- Please indicate the Red & Black circular dots in the index.	Approve	Corrected
Plans/Plates	Plate-2 - Survey Report / Certification of block boundary by CMPDIL may be referred.	Approve	Corrected
3.1.4	Technical justification may be provided.	Approve	Done
3.1.2	As definition of Life of Mine has changed in the new guidelines, Life of Mining Operation of Life of Project may be used.	Approve	Corrected
3.1.2	In Mine Entries table, the proposed Incline has been shown at a gradient 1 in 5. However, for use of FSV/MUV, gradient should be 1 in 6 and flatter.	Approve	The incline gradient has been kept at 1 in 5 instead of 1 in 6, as Incline-1 will be used only for lowering the MUV and FSV during project commencement. Subsequently, these vehicles will operate solely within the underground galleries.
3.1.13	Units may be relooked	Approve	Corrected
Plans/Plates	Plate 16- As per design of panels, the free flow of water to sumps may be	Approve	Panels are designed to facilitate the self-drainage process, with the main sumps indicated in the plate.

Mining Plan Prepared by me
(B.D. SHARMA)
Project Coordinator (PC)

INDIAN MINE PLANNERS & CONSULTANTS

Prepared By Min Mec Consultancy Pvt Ltd On 23/06/2025

FEEDBACK AND REPLY FROM EXPERT REVIEWER

EXPERT REVIEWER: INDIAN MINE PLANNERS AND CONSULTANTS (IMPCON)
PROJECT PROPONENT: MINEWARE ADVISORS PRIVATE LIMITED (MAPL)

Section No.	Feedback / Remarks by IMPCON	Status	Correction / Remarks by MAPL
	obstructed as the panels seems to be not self-draining. May be reviewed.		
Plans/Plates	Plate 16- Working has been shown below the inclines. May be reviewed.	Approve	We have planned to only develop below incline keeping minimum 200 m safety barrier from Pit Bottom location. Depillaring will not be done in that panel.
Plans/Plates	Plate 16- Auxiliary and main sumps are not shown in any of layout plans. May be relooked.	Approve	Corrected
Plans/Plates	Plate 16- The projection has been shown for the thickness of seam 1.2 m. However, operations by LH CMs are generally carried out with a thickness of 1.5 m and above. The same may please be checked.	Approve	The cutting range of an LHCM is 1.245 to 3.353 m, so cutting a coal seam with a thickness of 1.2 m will not pose any issues.
Plans/Plates	Plate 16- The Ventilation route and transport circuit may be shown on layout plans.	Approve	Corrected
Plans/Plates	Plate 16- Position of the Ghinachunia Nala & villages may be shown in all layout plans.	Approve	The details are already shown in the stage plans. We have intentionally not included them in the panel layouts to avoid overlapping of texts and lines, ensuring better visual clarity.
Plans/Plates	Plate 16- In the Layout plan of Seam L2, drifts are shown across the dyke. The same may please be reviewed from safety considerations.	Approve	
Plans/Plates	Plate 17- Calculation may be checked.	Approve	
5.5.1.2	Repetition may be avoided	Approve	This is a glitch in the SWCS Portal. The data was entered only once; however, it appears duplicated in the downloaded PDF. To avoid any confusion or inconvenience, the correct details have been enclosed separately in Annexure-16.
6.1.1	Type of forest land seems to be revenue forest, may be reviewed.	Approve	Corrected
6.1.2	In Forest Land (Return), 12.73 ha requires to be mentioned.	Approve	Corrected

FEEDBACK AND REPLY FROM EXPERT REVIEWER

EXPERT REVIEWER: INDIAN MINE PLANNERS AND CONSULTANTS (IMPCON)
PROJECT PROPONENT: MINEWARE ADVISORS PRIVATE LIMITED (MAPL)

Section No.	Feedback / Remarks by IMPCON	Status	Correction / Remarks by MAPL
6.1.3	During depillaring by caving, possibilities of diversion/ rehabilitation of surface constraints may be reviewed.	Approve	As mentioned in Chapter-3, no depillaring is proposed beneath the Nala and village areas. Only development work will be carried out under these surface features. Therefore, there is no requirement for diversion or R&R measures.
8.10.1	This may be relooked as per the guideline dated 31012025 Certain items may not be pertinent to UG mining	Approve	
8.10.1	Manpower cost may be considered during final closure	Approve	
8.10.1	To mitigate portal issues may be uploaded as additional annexure also	Approve	
8.10.2.18	May be recalculated as per the guideline dated 31012025	Approve	
8.10.2.19	To mitigate portal issues may be uploaded as additional annexure also	Approve	Enclosed in Annexure-18
Annexure/Plate	Annexure-5 – May be revised along the changes in 8.10.1.	Approve	Done
Annexure/Plate	1.3.7- A comparison table of year-wise production schedule between CMDPA & current mining plan may be given in 3.1.2 or as additional annexure.	Approve	Enclosed in Annexure-9
Annexure/Plate	Plate 21- Ventilation network may be shown in related plans.	Approve	Done
Annexure/Plate	In plates Caving is shown beneath the nala. The proposed re-alignment of nala may please be indicated, or caving in all seams may take into consideration the angle of draw so as to protect the villages, rivers and other surface infrastructure.	Approve	Corrected

Mining Plan Prepared by me
(B.D. SHARMA)
Project Coordinator (PC)

INDIAN MINE PLANNERS & CONSULTANTS

FEEDBACK AND REPLY FROM EXPERT REVIEWER

EXPERT REVIEWER: INDIAN MINE PLANNERS AND CONSULTANTS (IMPCON)
PROJECT PROPONENT: MINEWARE ADVISORS PRIVATE LIMITED (MAPL)

Section No.	Feedback / Remarks by IMPCON	Status	Correction / Remarks by MAPL
Annexure/Plate	In some of the plates, texts are not clear. May be relooked.	Approve	Done
Annexure/Plate	1.6.5/ 1.6.6/ 1.6.7- May be relooked.	Approve	Done
Annexure/Plate	1.6.5/ 1.6.6/ 1.6.7/ 1.6.8- May be relooked.	Approve	Corrected
Annexure/Plate	Annexure-5: Only partially visible in portal.	Approve	Corrected
Annexure/Plate	Plate 17- Calculation may be checked.	Approve	Done
Annexure/Plate	Plate 21- Ventilation network may be shown in related stage plans and additional plans.	Approve	Done

Mining Plan Prepared by me
(B.D. SHARMA)
Project Coordinator (PC)

Additional Annexure-21

Observations of the Scrutiny Committee.	
Application No	APP00339
Name of Mine	Sahapur East
Name of Project Proponent	Utsav Khaitan

Chapter-1: Project Information

1.1 Introduction

S.No	Parameters	Final Observation Details
1.5.19	Average Grade	There has been change in grade. To be explained

Chapter-1: Project Information

1.1 Introduction

S.No	Parameters	Final Observation Details
1.5.15	Extractable Reserves “Mt”	Extractable reserves have increased as compared to the earlier approved mining plan. To be explained

Chapter-1: Project Information

1.1 Introduction

S.No	Parameters	Final Observation Details
1.5.13	Blocked Reserve “Mt”	(a) Blocked reserves have increased as compared to the earlier approved mining plan. To be justified or corrected. (b) Reserves blocked at different locations (e.g. against block boundary, important surface features, unprojectized, etc.) shall be tabulated and justified for each case.

Chapter-1: Project Information

1.1 Introduction

Mining Plan Prepared by me
(D.D. SHARMA)
Project Coordinator (PC)

INDIAN MINE PLANNERS CONSULTANTS

S.No	Parameters	Final Observation Details
1.5.10	Seams not considered for Mining with Reasons	(a) Non-mineability of each seam shall be explained with the help of Isochore plan, if given in GR (b) Where the proposed non-mineable seams considered for liquidation in the earlier approved mining plan ?

2.1 DETAILS OF THE BLOCK

S.No	Parameters	Final Observation Details
2.2.14	Seam wise thickness, depth and reserve	(a) Uneconomic reserves shall be explained. (b) Mining losses to be justified vis a vis the method of work proposed.

3.1 MINING METHOD

S.No	Parameters	Final Observation Details
3.1.7	Tentative Coal production Plan “MT”	No coal production or waste excavation has been proposed in Yr-1. To be corrected/justified.

3.1 MINING METHOD

S.No	Parameters	Final Observation Details
3.1.2	Proposed method of mining with justification on suitability of method of mining	(a) References of make of proposed equipment shall be removed (b) Provisions of Para 2.4.2 (b) of the OM of MoC dated 31.01.2025 regarding mining plan shall be adhered to.

6.1 LAND REQUIREMENT

S.No	Parameters	Final Observation Details
6.1.1	Total Land requirement for the mine in “Ha”	Data source to be given

8.1.1 Land Degradation and restoration Schedule

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(B.D. SHARMA)
Project Coordinator (PC)

S.No	Parameters	Final Observation Details
8.10.1	Abandonment Cost: Cost of Activities to be taken up for closure of the mine	Data to be corrected

Chapter-1: Project Information

1.1 Introduction

S.No	Parameters	Final Observation Details
1.5.24	Handling of Rejects	,1.5.25: (a) All changes made in the mining plan as compared to the earlier approved mining plan shall be tabulated and justified (b) Annexure-10: Coal production proposed in the first three years is less on year on year basis as compared to earlier approved mining plan. Detailed explanation to be given.

Chapter-1: Project Information

1.1 Introduction

S.No	Parameters	Final Observation Details
1.5.1	Block Area in “Ha”	,Allocated block area, allocated block area projectized, project area have decreased as compared to the earlier approved mining plan. To be justified or corrected.

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Additional Annexure-22

REPLY OF THE OBSERVATIONS OF THE SCRUTINY COMMITTEE	
Application No	APP00339
Name of Mine	Sahapur East
Name of Project Proponent	M/s Mineware Advisors Private Limited

CHAPTER-1: PROJECT INFORMATION

1.1 Introduction

S.N.	Parameters	Final Observation Details	Reply by Project Proponent
1.5.1	Block Area in "Ha"	Allocated block area, allocated block area projectized, project area has decreased as compared to the earlier approved mining plan. To be justified or corrected.	The allocated block area/projected project area in the current Mining Plan appears reduced compared to the earlier approved plan because 659 Ha has been officially allotted to us vide the Vesting Order (NA-104/12/2025-NA dated 29-05-2025). The revised area reflects the legally allotted block and has been incorporated in the current Mining Plan accordingly. Moreover, the area of 659 Ha, more precisely 658.83 Ha, as proposed in the current Mining Plan, has been derived from the DGPS Survey Report, which is enclosed as Annexure-18 of the submitted Mining Plan.
1.5.10	Seams not considered for Mining with Reasons	(a) Non-mineability of each seam shall be explained with the help of Isochore plan, if given in GR. (b) Where the proposed non-mineable seams considered for liquidation in the earlier approved mining plan?	(a) The explanation of non-mineability of each seam has already uploaded earlier with the Mining Plan in **Annexure-11** for your reference. Also, Isochore plans of each seam has already been uploaded earlier with the Mining Plan in **Plate-10A1 to 10A8**. (b) The explanation of each seam has already uploaded earlier with the Mining Plan in **Annexure-11** for your reference
1.5.13	Blocked Reserve "Mt"	(a) Blocked reserves have increased as compared to the earlier approved mining plan. To be justified or corrected. (b) Reserves blocked at different locations (e.g. against block boundary, important surface features, unprojectized, etc.) shall be tabulated and justified for each case.	(a) The increase in blocked reserve is attributed to the revised underground panel layout and the adoption of fully continuous cutting technology. (b) Details explained in **Enclosure-1** enclosed herewith.

REPLY OF THE OBSERVATIONS OF THE SCRUTINY COMMITTEE	
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S.N.	Parameters	Final Observation Details	Reply by Project Proponent
1.5.15	Extractable Reserves "Mt"	Extractable reserves have increased as compared to the earlier approved mining plan. To be explained.	• The increase in extractable reserves is primarily attributed to the change in mining methodology—from a semi-mechanised process to a fully mechanised mining system. Under the new plan, two Continuous Miner (CM) packages will be deployed to maximize coal extraction while maintaining strict adherence to safety standards. • Previously, the cutting height was limited to 4.0 meters; however, in the current mining plan, coal extraction will be carried out up to the full seam thickness. • Additionally, the gallery width has increased from 4.8 meters to 6.0 meters. The panel layout has also been strategically designed to optimize coal recovery without compromising safety norms.
1.5.19	Average Grade	There has been change in grade. To be explained.	The improvement in average grade may be attributed to the exclusion of Seam-IIIB in the proposed Mining Plan. In the previously approved plan, Seam-IIIB was included; however, in the current proposal, it has not been considered as the said seam is contiguous with its upper Seam (Seam-IIIA) and has patchy seam with lower thickness. The grade of Seam-IIIB is relatively poor, and its exclusion has resulted in an overall enhancement in the average grade of the remaining targeted seams.
1.5.24	Handling of Rejects	1.5.25: (a) All changes made in the mining plan as compared to the earlier approved mining plan shall be tabulated and justified	(a) Location of Mine Infrastructures area has been modified. It causes modifications in land use patterns. Following is the detailed list:

S.N.	Land use pattern	Approved Mining Plan (Ha)	Proposed Mining Plan (Ha)	Remarks
i.	Excavation Area	0.00	0.00	No Change
ii.	Topsoil Dump Area	0.00	0.50	Previously it was mentioned under "External Dump Area" by mistake.
iii.	External Dump Area	0.50	0.00	Already explained above (S.N. ii)

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S.N.	Parameters	Final Observation Details	Reply by Project Proponent

S.N.	Land use pattern	Approved Mining Plan (Ha)	Proposed Mining Plan (Ha)	Remarks
iv.	Safety Zone	0.00	0.30	Previously not mentioned
v.	Other Use	2.60	1.20	It includes Settling Pond, Garland Drain, etc.
vi.	Infrastructure area	13.02	9.00	Location has been changed.
vii.	Green Belt	0.00	5.90	Previously not mentioned
viii.	Undisturbed Area	676.88	641.93	Total Project Area has been modified.
Total (Ha)		**693.00**	**658.83**	

		(b) Annexure-10: Coal production proposed in the first three years is less on year-on-year basis as compared to earlier approved mining plan. Detailed explanation to be given.	(b) The production schedule presented in the proposed Mining Plan has been prepared in accordance with the Mandatory Work Program and Production Schedule specified in Schedule-I of the CMDPA for Sahapur East Coal Mine, under the 21st Tranche of the CM(SP) Act, 2015, dated 27.03.2025. The comparison of Production Schedule has been mentioned as **Annexure-10**.

REPLY OF THE OBSERVATIONS OF THE SCRUTINY COMMITTEE	
Application No	APP00339
Name of Mine	Sahapur East
Name of Project Proponent	M/s Mineware Advisors Private Limited

CHAPTER-2: EXPLORATION, GEOLOGY, SEAM SEQUENCE, COAL QUALITY AND RESERVE

2.1 Details of the Block

S.N.	Parameters	Final Observation Details	Reply by Project Proponent
2.2.14	Seam wise thickness, depth and reserve	(a)Uneconomic reserves shall be explained.	(a) The uneconomic coal reserves within the Coal Mine have been identified based on the geological, technological, and economic parameters. These include seams or portions of seams that are either too thin, of inferior quality, or located in areas where extraction is not feasible due to technical constraints or safety considerations. Detailed information has been provided in **Plate-16**.
		(b)Mining losses to be justified vis a vis the method of work proposed.	(b) **Justification of Method of Mining:** The proposed method—Underground Bord & Pillar with Caving using a Fully Mechanised Continuous Miner Package—has been selected based on the mine's depth, seam thickness, gradient, and geological structure. This method ensures roof stability through in-situ pillars during development, followed by systematic extraction in the caving phase to maximise recovery while controlling subsidence. It is well-suited for mechanisation, enabling higher productivity, precise cutting, and improved safety. Compared to open-cast mining, it minimises overburden removal, reduces surface disturbance, and meets environmental and statutory requirements, making it the most efficient, safe, and sustainable option for the project. Underground mining, particularly the **Bord & Pillar method with Fully Mechanised Continuous Miner Package**, allows safe and efficient extraction of coal with minimal surface disturbance, reduced environmental footprint, and compliance with statutory safety norms, while ensuring optimal resource recovery. **Justification of Mining Losses:** The Sahapur East Coal Mine is proposed to be developed using the Underground Bord & Pillar method with Caving by Fully Mechanised Continuous Miner Package, which inherently involves unavoidable mining losses. These arise from coal left in-situ as roof support pillars and barrier/protective pillars, losses during

			caving due to fragmentation, dilution, and irregular seams, as well as operational constraints such as mechanical limitations of the Continuous Miner, presence of partings or inferior coal, and restrictions near mine infrastructure. The expected losses have been estimated based on industry benchmarks and comparable mine data, considering seam thickness, depth, panel layout, and statutory requirements. Detailed calculations and layouts are provided in Plate-16 and Plate-17 of the Mining Plan in line with safety norms and best operational practices.

REPLY OF THE OBSERVATIONS OF THE SCRUTINY COMMITTEE	
Application No	APP00339
Name of Mine	Sahapur East
Name of Project Proponent	M/s Mineware Advisors Private Limited

CHAPTER-3: MINING

3.1 Mining Method

S.N.	Parameters	Final Observation Details	Reply by Project Proponent
3.1.2	Proposed method of mining with justification on suitability of method of mining	(a) References of make of proposed equipment shall be removed (b) Provisions of Para 2.4.2 (b) of the OM of MoC dated 31.01.2025 regarding mining plan shall be adhered to.	(a) Already removed. (b) As per **Para 2.4.2 (b) of the OM of MoC dated 31.01.2025:** ***Make in India: The Project proponent is to put thrust on the selection of Indigenous equipment or equipment with indigenous components***. In this regard, we hereby confirm that the Project Proponent shall give preference to the use of indigenous equipment or equipment with indigenous components during the project.
3.1.7	Tentative Coal production Plan "MT"	No coal production or waste excavation has been proposed in Yr-1. To be corrected/justified.	• Yr-1 has been designated as the Construction Year, with coal production commencing from Yr-2. Accordingly, no coal production is proposed in Yr-1. • Sahapur East Coal Mine is considered to be worked by Underground Mining Bord & Pillar method. Consequently, overburden (OB) removal has not been accounted for under this particular clause. • However, any minor quantity of topsoil and OB that may be generated during the construction period has already been addressed under Clause 8.4 of Chapter 8: Waste Management, where the extraction is shown starting from Yr-1. o **Topsoil = 0.0500 cum** o **OB removal = 0.0296 cum** o **Total Waste Management Yr-1 = 0.0796**

REPLY OF THE OBSERVATIONS OF THE SCRUTINY COMMITTEE	
Application No	APP00339
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CHAPTER-6: LAND REQUIREMENT

6.1 Land Requirement

S.N.	Parameters	Final Observation Details	Reply by Project Proponent
6.1.1	Total Land requirement for the mine in "Ha"	Data source to be given	Indicative source of data: M.P. Bhu Abhilekh Website and CMPDIL Survey Report

CHAPTER-8: PROGRESSIVE & FINAL MINE CLOSURE PLAN

8.1.1 Land Degradation and restoration Schedule

S.N.	Parameters	Final Observation Details	Reply by Project Proponent
8.10.1	Abandonment Cost: Cost of Activities to be taken up for closure of the mine	Data to be corrected.	The correct Abandonment Cost data has been uploaded in the draft Mining Plan. But, due to some technical issues in the SWCS portal, the data that was uploaded earlier was getting removed or misplaced repeatedly. To avoid any discrepancies, we have separately attached the complete calculation along with the Mining Plan in **Annexure-19** for your reference.

ENCLOSURE-1

JUSTIFICATION OF BLOCKED RESERVES

Blocked Reserve Zones	Justification	Blocked Reserve (MT)								
		IV	L2	IIIA	IIIB	IIIL	II	I	L1	Total
Nala/River/Road	As per **Reg. 119 (1)** and **Reg. 149 (6)(b) of CMR 2017**, coal extraction is **prohibited beneath or in close proximity** to critical surface features such as nallas, rivers, roads, railways, and villages—i.e., within **45 m of railways, roads, public works, and buildings**, and within **15 m of water bodies or under them**, respectively. Accordingly, **protective coal barriers** are retained in these areas to safeguard the surface features and ensure **long-term stability and safety**. These reserves are therefore treated as **blocked and excluded from the mineable portion** in strict compliance with statutory requirements.	0.0000	0.8520	0.0000	0.0000	0.0000	1.4250	0.0000	0.0000	**2.2770**
Safety Barrier	As per **Reg. 119 (1)** and **Reg. 121 of CMR 2017**, statutory coal barriers, i.e. - a distance of half of the Pillar size, are required to be left along the block boundary, adjacent workings, shafts, inclines, surface features, and waterlogged/abandoned mine areas, etc. These protective pillars are **mandatory for ensuring mine safety, stability, and to prevent accidental interconnection with adjoining leaseholds or waterlogged zones**. Such barriers are therefore excluded from the extractable reserves and duly accounted for in mine planning as per statutory requirements.	2.6218	0.3227	1.3019	1.0900	0.0000	1.0474	0.0000	0.0000	**6.3837**
Uneconomic	Some coal reserves, though geologically present, cannot be mined profitably due to factors such as - **thin seam zones (generally <1.2 m), isolated or scattered patches away from the main mineable blocks, and adverse geo-mining conditions** that make extraction unsafe or technically difficult etc. Extraction of such reserves is either **uneconomical or unsafe**; therefore, these portions are excluded from the mineable reserves, in line with **statutory safety provisions and standard mine planning practices**.	2.3000	2.0000	4.0000	3.5150	0.3560	2.5450	0.0000	1.4390	**16.1550**
Mining Losses	**No depillaring has been planned/projectized beneath nallas, villages, surface infrastructures, including shafts and inclines**, in order to ensure safety and stability of these features. In addition, as per **Reg. 112 of CMR 2017**, there will be inevitable coal losses during practical mining operations, such as - part of the seam left during depillaring, losses at junctions, seam splits, or irregularities, stooks and remnant coal. These are considered **normal and unavoidable operational losses**, which have been duly accounted for in mine planning as per **industry practice and statutory safety provisions under CMR 2017**.	1.4957	1.8048	1.8284	1.0140	0.0000	6.0895	0.0000	0.0000	**12.2324**

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