



File No: EC/SEIAA/2026-27/5002/2026

State Environment Impact Assessment Authority (SEIAA), Jharkhand

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)



Dated: 11/07/2026

To,

Kailash Kumar
CENTRAL COALFIELDS LIMITED
CENTRAL COALFIELDS LIMITED, DARBHANGA HOUSE, KUTCHERY ROAD, RANCHI,
JHARKHAND, 834029
moef-parivesh.ccl@coalindia.in

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project KHAS KARANPURA COAL MINE (Project Area: 232.13 HA, Capacity: 3.375 MTPA) submitted to Ministry vide proposal number SIA/JH/CMIN/581347/2026 dated 08/06/2026.

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0605JH5627527N
(ii) File No.	EC/SEIAA/2026-27/5002/2026
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Name of Project	KHAS KARANPURA COAL MINE (Project Area: 232.13 HA, Capacity: 3.375 MTPA)
(vii) Name of Company/Organization	CENTRAL COALFIELDS LIMITED
(viii) Location of Project (District, State)	RAMGARH, JHARKHAND
(ix) Issuing Authority	SEIAA
(x) Applicability of General Conditions	no
(xi) Applicability of Specific Conditions	no

Plot/Survey Khasra Nos.: 153 154 84 , 88 , 89 , 98 , 117 , 120 , 123 , 127 , 10 , 11 , 144 , 145 92 , 93 , 96 , 122 , 132 , 133 , 135 , 139 , 147 83 , 86 , 95 , 124 , 125 , 126 , 134 , 136 , 13 , 109 , 110 , 148 78 , 94 , 8 , 103 , 104 , 105 80 , 90 , 91 , 97 119 156 4 , 5 , 12 , 81 , 82 , 87 , 99 , 100 , 101 , 149 , 150 , 151 , 152 , 155 , 160 , 261 , 6 , 7 , 85 , 108 , 146 121 128 , 129

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by State Environment Impact Assessment Authority(SEIAA) Appraisal Committee of SEIAA in the meeting held on 22/06/2026. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A, B and C)/EIA & EMP Reports/presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 22/06/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).
7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby decided to grant Terms of Reference for instant proposal of M/s. Kailash Kumar under the provisions of EIA Notification, 2006 and as amended thereof.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Terms of Reference to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. This issues with the approval of the Competent Authority.

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	An EIA-EMP Report would be prepared for a combined peak capacity ofMTPA for OC-cum-UG project which consists of MTPA in an ML/project area of ha for OC and MTPA for UG in an ML/project area of ha based on the generic structure specified in Appendix III of the EIA Notification 2006.
1.2	An EIA-EMP Report would be prepared for MTPA rated capacity to cover the impacts and

S. No	Terms of Reference
	environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for..... MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
1.3	The ToRs prescribed for both opencast and underground mining are applicable for opencast – cum-underground mining.
1.4	Information on the following aspects of the corporate Environment Responsibility should also be provided for opencast, underground and opencast-cum-underground Min
1.5	Corporate Environment Responsibility:

Additional Terms of Reference

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Coal	Coal	3.375	MTPA	Combination of two or three modes	



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

E-mail: msseiaa.jhk@gmail.com / website: www.jseiaa.in

Letter No : EC/SEIAA/2026-27/5002/2026/

Ranchi, Date :

To: **Shri Kailash Kumar,**
Chief Manager (Mining),
M/s Central Coalfields Limited,
Darbhangha House, P.O. : Ranchi,
District : Ranchi, Jharkhand : 834001.

Sub: Prescribing of ToR to “Khas Karanpura Coal Mines (Rated 2.25 MTPA and Peak capacity 3.375 MTPA) of M/s Central Coalfields Ltd. Located at South Karanpura Coalfield, Thana : Patratu, Distt. : Ramgarh, Jharkhand (232.13 Ha) (Proposal no.: SIA/JH/CMIN/ 581347/2026) - regarding.

Ref: Your application no. GM (BS)/SO (P&P/2026/1892, dated : 05.06.2026.

Sir,

It is in reference to the project “Khas Karanpura Coal Mines (Rated 2.25 MTPA and Peak capacity 3.375 MTPA) of M/s Central Coalfields Ltd. Located at South Karanpura Coalfield, Thana : Patratu, Distt. : Ramgarh, Jharkhand (232.13 Ha)” submitted by you for seeking Terms of Reference (ToR).

This is a new project which has been taken for appraisal on 13.06.2026.

Project Sector: 1(a) Mining of Minerals (Coal), Category: B1.

Application for Terms of Reference (ToR).

In the Form-I application it is stated that the total forest land 212.41 Ha (Notified forest 169.61 Ha and GMJJ 42.80 Ha) was broken for the mining use before the enactment of Forest (Conservation) Act, 1980. Prior to the submission of EIA / EMP report a certificate / NoC from the concerned forest division confirming that the provision of Forest (Conservation) Act, 1980 are not applicable to the forest land. If required Forest Clearance will be obtained prior to the final EIA appraisal.

The PAs have submitted a letter to DFO, Ramgarh Forest Division vide letter no. GM(BS)/SO(P&P)/2025/229, dated 12.09.2025 seeking clarification on the applicability of the Forest (Conservation) Act, 1980 as it is broken prior to 1980.

Application for: Terms of Reference (ToR) for Khas Karanpura Coal Mine (Opencast & Highwall Mining), Rated Capacity: 2.25 MTPA/Peak Capacity – 3.375 MTPA within project activity area of 232.13 Ha.

The proposal pertains to reopening of the legacy Khas Karanpura Coal Mine of Central Coalfields Limited (CCL), a subsidiary of Coal India Limited. The mine was operational prior to nationalization and was subsequently vested with CCL under the Coal Mines (Nationalisation) Act, 1973. The project comprises the abandoned workings of Khas Karanpura UG Mine, AK Colliery and Sayal-A Colliery.

Mining operations were discontinued during 1999-2000 due to techno-commercial constraints. The project is now proposed for reopening through a combination of Opencast and Highwall Mining methods for extraction of 30.00 Million Tonnes of coal over a mine life of 15 years at a rated production capacity of 2.25 MTPA.

The total project area is 232.13 Ha, comprising 175.43 Ha of mining area, 48.21 Ha of adjoining Sayal-A decoaled area proposed for external dumping and 8.49 Ha of adjoining AK Colliery area proposed for infrastructure development.

Land Details:

Category	Area (Ha)
Notified Forest Land	169.61
GM Jungle Jhari (GMJJ)	42.80
Government Land	6.08
Tenancy Land	13.64
Total	232.13

Plot and Khata No.:

KHATA NO.	PLOT NO.
1	153
45	154
67	84,88,89,98,117,120,123,127,10,11,144,145
68	92,93,96,122,132,133,135,139,147
69	83,86,95,124,125,126,134,136,13,109,110,148
70	78,94,8,103,104,105
80	80,90,91,97
81	119
82	156
86	4,5,12,81,82,87,99,100,101,149,150,151,152,155,160,261,6,7,85,108,146
87	121 128,129

Project and Location Details

Sl. No.	Particulars	Details
1	Project Name	Khas Karanpura Coal Mine (2.25 MTPA)
2	Project Proponent	Central Coalfields Limited (CCL)
3	Project Area	232.13 Ha
4	Forest Land	212.41 Ha
5	Non-Forest Land	19.72 Ha
6	Project Cost	Rs.597.81 Crore
7	Mine Life	15 Years
8	Extractable Coal Reserve	30.00 Million Tonnes
9	Geological Reserve	76.66 Million Tonnes
10	Total Overburden	94.11 Million m ³
11	Average Stripping Ratio	3.14 m ³ /t
12	Employment Potential	588 Persons
13	Water Requirement	255 KLD
14	Water Source	Mine Seepage Water
15	Power Requirement	2 MW through proposed 11 kV line from Urimari Area
16	Average Coal Grade	G-7

Land Use Planning and Conceptual Plan

Type	Land use (Proposed)	Land Use (End of Life)	Land Use (Post Closure)						
			Agricultural land	Plantation	Water Body	Public/ Company Use	Forest Land (Returned after plantation)	Undisturbed	Total
Excavation Area	140.00								
Backfilled Area		140.00		2.86			137.14		140.00
Excavated Void									0.00
Without Plantation									0.00
Top Soil Dump									0.00
External Dump	62.63	62.63*		5.76*			56.87*		62.63
Safety Zone	2.00	2.00		0.50			1.50		2.00
Haul Road between quarries									0.00
Road diversion									0.00
Diversion/ Below River / Nala /									0.00

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Canal									
Settling Pond	0.08	0.08					0.08		0.08
Road And Infrastructure Area	7.07	7.07		1.97			5.10		7.07
Fly ash dumping, if any									0.00
Rationalization Area									0.00
Garland Drains	0.73	0.73					0.73		0.73
Embankment	10.07	10.07				5.03	5.04		10.07
Green Belt	1.00	1.00		0.73			0.27		1.00
Water Reservoir Near Pit									0.00
UG Entry									0.00
Undisturbed / Mining Right for UG	8.55	8.55					5.68	2.87	8.55
Resettlement									

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Pit Head Power Plant									
Water Harvesting									
Agricultural Land									
Total	232.130	232.130		11.820	0.000	5.030	212.41	2.87	232.130

Therefore total plantation for Khas Karampura Coal Mines is =212.41 ha+ 11.820 Ha=224.23 Ha, Thebalance 5.030 Ha Embankment and 2.87 Ha is undisturbed land

Production Details

Year	Coal by OC Method (Mte)	Coal by Highway Method Q1 (Mte)	Coal by Highway Method Q2 (Mte)	Total Coal (Mte)	Cumulative Coal (Mte)	OB Q1 (MCum m)	OB Q2 (MCum m)	Total OB (MCum m)	Cumulative OB (MCum)	ROM SR (Cum /t)	Cumulative SR (Cum /t)
2025-26	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.10	1.10	-	-
2026-27	0.75	0.00	0.00	0.75	0.75	2.06	0.00	2.06	3.16	2.75	4.21
2027-28	2.25	0.00	0.00	2.25	3.00	7.00	0.00	7.00	10.16	3.11	3.39
2028-29	2.25	0.00	0.00	2.25	5.25	7.50	0.00	7.50	17.66	3.33	3.36
2029-30	2.25	0.00	0.00	2.25	7.50	7.50	0.50	8.00	25.16	3.33	3.35
2030-31	2.00	0.25	0.00	2.25	9.75	3.00	5.00	8.00	33.16	3.56	3.40
2031-32	1.80	0.45	0.00	2.25	12.00	3.00	5.00	8.00	41.16	3.56	3.43

2032 -33	1.00	0.85	0.40	2.25	14.25	2.75	5.25	8.00	49.16	3.56	3.45
2033 -34	0.00	2.05	0.20	2.25	16.50	0.00	8.00	8.00	57.16	3.56	3.46
2034 -35	0.00	1.65	0.60	2.25	18.75	0.00	8.00	8.00	65.16	3.56	3.48
2035 -36	0.00	1.65	0.60	2.25	21.00	0.00	8.00	8.00	73.16	3.56	3.48
2036 -37	0.00	1.65	0.60	2.25	23.25	0.00	8.00	8.00	81.16	3.56	3.49
2037 -38	0.00	1.05	1.20	2.25	25.50	0.00	7.00	7.00	88.16	3.11	3.46
2038 -39	0.00	1.05	1.20	2.25	27.75	0.00	3.00	3.00	91.16	1.33	3.29
2039 -40	0.00	1.05	1.20	2.25	30.00	0.00	2.95	2.95	94.11	1.31	3.14
Total 1	12.30	11.70	0.40	24.40	30.00	33.91	60.20	94.11	94.11	3.14	3.14

OB Details

Year / Stage	Total OB	Dump A	Dum p B	Dump C	Dum p D	Dump E	Dump F	Rehandle d OB (Dump E → Dump C)	Rehandle d OB (Dump A → Dump D)
1	1.10	1.10	-	-	-	-	-	-	-
2	2.06	2.06	-	-	-	-	-	-	-
3	7.00	7.00	-	-	-	-	-	-	-
4	7.50	6.50	1.00	-	-	-	-	-	-
5	7.50	2.50	1.00	4.00	-	-	-	-	-
6	8.00	-	-	3.00	-	5.00	-	-	-
7	8.00	-	-	3.00	-	5.00	-	-	-

8	8.00	-	-	8.00	-	-	5.00	-	-
9	8.00	-	-	8.00	-	-	5.00	-	-
10	8.00	-	-	8.00	-	-	-	-	-
11	8.00	-	-	2.25	5.75	-	-	-	-
12	8.00	-	-	-	8.00	-	-	-	-
13	7.00	-	-	-	7.00	-	-	-	-
14	3.00	-	-	-	3.00	-	-	-	-
15	2.95	-	-	1.09	-	1.86	-	-	-
Post Closure – Year 1	0.00	-	-	-	-	-	-	6.50	-
Post Closure – Year 2	0.00	-	-	-	-	-	-	6.50	-
Post Closure – Year 3	0.00	-	-	-	-	-	-	6.16	-
Total Generated / Rehandled	94.11	19.16	2.00	36.25	24.84	10.00	1.86	19.16	10.00
End of Closure Position	94.11	0.00	2.00	46.25	44.00	0.00	1.86	-	-

Proposed Equipment Details

Sl. No.	Equipment	Capacity	Maximum Population	Application
1	Diesel Hydraulic Shovel (Backhoe)	3.2 Cum	14	Overburden Removal

2	Rear Dumper	35 T	88	Overburden Removal
3	Diesel Drill	160 mm	2	Overburden Removal
4	Dozer	200 HP & 354 HP	4	Overburden Removal
5	Diesel Hydraulic Shovel (Backhoe)	4.2-4.5 Cum	3	Coal Extraction
6	Front End Loader	5 Cum	3	Coal Extraction
7	Rear Dumper / Trucks	35 T	20	Coal Transportation
8	Drill	160 mm	1	Coal Extraction
9	Dozer	200 HP & 354 HP	2	Coal Extraction
10	Mobile Crusher	300 TPH	2	Coal Crushing
11	Surface Miner	450 TPH	1	Coal Winning
12	Highwall Miner (HW-300)	300 m Reach	2	Highwall Mining
13	Grader	120-150 HP	1	Road Maintenance
14	Crane	20-40 T	2	Material Handling
15	Diesel Hydraulic Shovel (Backhoe)	2.7 Cum	1	General Utility
16	Front End Loader	5 Cum	1	General Utility
17	Dozer	200 HP	1	General Utility
18	JCB	-	1	Miscellaneous Works

19	Diesel Bowser	-	2	Fuel Supply
20	Fire Tender	-	1	Fire Protection
21	Boom Truck	-	2	Lifting & Maintenance
22	Heavy Duty Tow Truck	-	1	Equipment Recovery
23	Forklift Truck	5 T	1	Material Handling
24	Vibratory Compactor	-	1	Road & Ground Compaction
25	Tyre Handler	-	2	Tyre Maintenance
26	Water Sprinkler	12 KL	4	Dust Suppression
27	Fog Cannon	-	4	Dust Suppression
28	Maintenance Van	-	2	Maintenance Support
29	Farm Tractor	-	2	Miscellaneous Utility
30	Dewatering Pump	4000 GPM	2	Mine Dewatering
31	Dewatering Pump	2000 GPM	13	Mine Dewatering

COORDINATES

Latitude: 23°41' N to 23°42' N and Longitude: 85°20' E to 85°21' E

SALIENT FEATURES OF THE PROJECT

- Legacy coal mining project operating since pre-independence era and vested with CCL after nationalization.
- Brownfield reopening of an abandoned mine utilizing existing mining infrastructure and previously disturbed mining land.
- No fresh land acquisition involved.
- No displacement of habitation and no Rehabilitation & Resettlement (R&R) issues.
- Project area acquired under CBA Act, 1957, Land Acquisition Act, 1894 and Coal Mines Nationalisation Act, 1973.

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- Mine Plan and Mine Closure Plan approved by CCL Board vide Letter No. CS/BM/542/2024/304 dated 05.10.2024.

MINING DETAILS

- Mining Method: Opencast and Highwall Mining.
- Number of Coal Seams Considered: 14.
- Maximum Working Depth: 170 m.
- Opencast mining will be undertaken through shovel-dumper combination using drilling & blasting and surface miner technology depending upon geological conditions.
- Highwall Mining has been proposed for extraction of locked coal reserves and maximization of resource recovery.
- Total Coal Production during Mine Life: 30.00 Million Tonnes.
- Total Overburden Generation: 94.11 Million m³.

INFRASTRUCTURE AND UTILITIES

- Existing mine infrastructure, roads, workshops and residential facilities available.
- Approximately 314 existing CCL quarters are available within the project area.
- Proposed 2.5 MVA substation within the project area.
- Water requirement shall be met from mine seepage and recycled mine water.

COAL TRANSPORTATION

Coal will be transported by covered trucks to Saunda-B Railway Siding and thereafter by rail. Depending upon market demand and consumer requirements, direct transportation from pithead by road may also be undertaken.

ENVIRONMENTAL SETTING

Sl. No.	Particulars	Details
1	Nearest Highway	NH-20 at 17 km in the East direction; SH-2 at 4.20 km in the South direction
2	Nearest Railway Station	Patratu Railway Station located at approximately 2.90 km
3	Nearest Airport	Birsa Munda Airport located at approximately 52 km
4	Nearest Town/City	Ramgarh
5	Interstate Boundary	None within 10 km radius
6	Nearest Water Body	Damodar River flows along the northern boundary of the block from west to east direction
7	Reserve / Protected Forests	1. Maramgarha Protected Forest – 6.7 km (NE) 2. Ghaghra Protected Forest – 8.0 km (SE) 3. Hariharpur Protected Forest – 9.6 km (SE)

		4. Sankul Protected Forest – 2.9 km (W) 5. Tokisud Protected Forest – 5.0 km (W) 6. Koto Protected Forest – 8.0 km (SW) 7. Jarad Protected Forest – 9.2 km (S) 8. Lem Protected Forest – 10.1 km (S) 9. Aswa Protected Forest – 3.9 km (NNW)
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ENVIRONMENTAL MANAGEMENT AND MINE CLOSURE

- Progressive backfilling has been incorporated into the mine plan from the 5th year onwards.
- Initial overburden will be accommodated in designated external dumps and decoaled areas.
- Temporary and external dumps shall be progressively rehandled and utilized for backfilling of mined-out areas.
- The entire excavation area is proposed to be reclaimed through systematic backfilling and rehandling of overburden.
- No final quarry void is envisaged at the conceptual stage.
- Biological reclamation, plantation and ecological restoration have been integrated into the mine closure plan.

SOCIO-ECONOMIC BENEFITS

- Direct employment to 588 persons.
- Significant indirect employment through transportation, maintenance and allied activities.
- Revitalization of economic activity in the Patratu-Sayal region.
- Contribution towards domestic coal production, regional development and national energy security.

Baseline Monitoring:

- Baseline environmental monitoring was conducted during the pre-monsoon season from March 2026 to May 2026 to establish the existing environmental status of the study area surrounding the project.
- The monitoring and analysis work was carried out by ECO Care Laboratory, Asansol, a recognized environmental laboratory equipped with the necessary facilities and expertise for environmental quality assessment.
- The study area covered the core zone (project site) and the surrounding buffer zones up to 10 km radius from the project boundary.
- Monitoring locations were selected to represent environmental conditions within the project site, 500 m buffer zone, 5 km buffer zone, and 10 km buffer zone, considering factors such as habitation, sensitive receptors, drainage pattern, land use, and prevailing wind direction.

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- Ambient Air Quality Monitoring was carried out at 8 locations distributed across the core and buffer zones to assess the existing concentration levels of PM₁₀, PM_{2.5}, SO₂, NO_x, and other relevant parameters.
- Ambient Noise Level Monitoring was conducted at 8 locations covering residential, commercial, rural, and project-influenced areas to determine the prevailing day-time and night-time noise levels.
- Ground Water Quality Monitoring was undertaken at 8 locations comprising wells, hand pumps, and bore wells within the study area to evaluate the existing groundwater quality status.
- Surface Water Quality Monitoring was carried out at 3 locations representing major water bodies and drainage channels within the study area to assess the physico-chemical and biological characteristics of surface water.
- Soil Quality Monitoring was conducted at 8 locations covering agricultural land and other representative land-use areas to determine the physical and chemical characteristics of soil.
- The monitoring was carried out in accordance with the guidelines prescribed by the Ministry of Environment, Forest and Climate Change (MoEF&CC), Central Pollution Control Board (CPCB), and relevant Bureau of Indian Standards (BIS) methods.
- The collected environmental data forms the basis for assessing the likely impacts of the proposed project and for developing suitable environmental management and mitigation measures.

Ambient Air Quality Monitoring locations

Sl. No.	Monitoring Location	Direction	Distance	Latitude	Longitude
AAQ1	Project Site	-	-	23°41'24.25"N	85°20'6.58"E
AAQ2	Tipla	South	300 m	23°40'36.46"N	85°20'9.44"E
AAQ3	Giddi Basti	East	3.29 km	23°40'52.43"N	85°22'21.31"E
AAQ4	Urimari Colony	Officer North-West	2.27 km	23°41'18.77"N	85°18'14.58"E
AAQ5	Kinni	South	7.31 km	23°36'50.49"N	85°19'33.22"E
AAQ6	Chikor	South-East	7.37 km	23°37'21.71"N	85°22'30.02"E
AAQ7	Terpa	West	7.03 km	23°40'31.50"N	85°15'29.41"E
AAQ8	Chano	North	6.17 km	23°44'57.80"N	85°20'26.12"E

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Ambient Noise Monitoring Locations

Sl. No.	Monitoring Location	Direction	Distance	Latitude	Longitude
AN1	Project Site	-	-	23°41'24.25"N	85°20'6.58"E
AN2	Tipla	South	300 m	23°40'36.46"N	85°20'9.44"E
AN3	Giddi Basti	East	3.29 km	23°40'52.43"N	85°22'21.31"E
AN4	Urimari Officer Colony	North-West	2.27 km	23°41'18.77"N	85°18'14.58"E
AN5	Kinni	South	7.31 km	23°36'50.49"N	85°19'33.22"E
AN6	Chikor	South-East	7.37 km	23°37'21.71"N	85°22'30.02"E
AN7	Terpa	West	7.03 km	23°40'31.50"N	85°15'29.41"E
AN8	Chano	North	6.17 km	23°44'57.80"N	85°20'26.12"E

Ground Water Monitoring Locations

Sl. No.	Monitoring Location	Direction	Distance	Latitude	Longitude
GW1	Project Site	-	-	23°41'24.25"N	85°20'6.58"E
GW2	Tipla	South	300 m	23°40'36.46"N	85°20'9.44"E
GW3	Giddi Basti	East	3.29 km	23°40'52.43"N	85°22'21.31"E
GW4	Urimari Officer Colony	North-West	2.27 km	23°41'18.77"N	85°18'14.58"E
GW5	Kinni	South	7.31 km	23°36'50.49"N	85°19'33.22"E
GW6	Chikor	South-East	7.37 km	23°37'21.71"N	85°22'30.02"E
GW7	Terpa	West	7.03 km	23°40'31.50"N	85°15'29.41"E
GW8	Chano	North	6.17 km	23°44'57.80"N	85°20'26.12"E

Surface Water Monitoring Locations

Sl. No.	Monitoring Location	Direction	Distance	Latitude	Longitude
SW1	Damodar River (Upstream Side)	West	1.38 km	23°41'16.11"N	85°18'44.06"E

SW2	Damodar River (Downstream Side)	South-East	2.12 km	23°40'28.46"N	85°21'28.85"E
SW3	Patratu Lake	South	8.91 km	23°36'46.20"N	85°17'11.85"E

Soil Quality Monitoring Locations

Sl. No.	Monitoring Location	Direction	Distance	Latitude	Longitude
SQ1	Project Site	-	-	23°41'24.25"N	85°20'6.58"E
SQ2	Tipla	South	300 m	23°40'36.46"N	85°20'9.44"E
SQ3	Giddi Basti	East	3.29 km	23°40'52.43"N	85°22'21.31"E
SQ4	Urimari Officer Colony	North-West	2.27 km	23°41'18.77"N	85°18'14.58"E
SQ5	Kinni	South	7.31 km	23°36'50.49"N	85°19'33.22"E
SQ6	Chikor	South-East	7.37 km	23°37'21.71"N	85°22'30.02"E
SQ7	Terpa	West	7.03 km	23°40'31.50"N	85°15'29.41"E
SQ8	Chano	North	6.17 km	23°44'57.80"N	85°20'26.12"E

Khas Karanpura Coal Mine is a strategically important brownfield coal mining project involving reopening of a legacy nationalized mine. The project will facilitate extraction of 30.00 Million Tonnes of coal through environmentally sustainable Opencast and Highwall Mining methods while ensuring complete reclamation of mined-out areas, restorat of forest land, generation of employment and contribution towards the energy security objectives of the country.

STATUTORY CLEARANCES

1	Land Docs	:	Project area acquired under CBA Act, 1957, Land Acquisition Act, 1894 and Coal Mines Nationalisation Act, 1973.
2	CO	:	The CO, Patratu (Ramgarh) vide letter no. 68, dated 18.01.2025 has mentioned that total proposed land is 212.41 Ha out of which 42.80 Ha is recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 106, dated 15.01.2025 certified that the proposed project site is outside Eco Sensitive Zone of Hazaribag Wildlife Sanctuary.

4	DFO Territorial	:	DFO, Ramgarh vide letter no. 2290, dated 06.12.2024 certified that the total proposed land is 212.41 Ha out of which Notified forest is 169.61 Ha.
5	Mine Plan Approval	:	Mine plan approved by Staff Officer (P & P) (BS), Barka-Sayal Area, Central Coalfields Limited vide Ref. No. GM(BS)/P&P/KK/MDO RS / Mining Plan /24-25/396, dated 24.10.2024.
6	LOA	:	LOA for the work of reopening, Salvaging, rehabilitation, development and operation of Khas Karanpura Mines issued by CCL vide Ref No. – CCL/GM(CMC)/MDO RS/ Khas Karanpura/B-S Area/NIT47/LOA/2023/439 dated 21/07/2023.

SEAC, Jharkhand has suggested the ToRs in its 132nd meeting held on 09th, 10th, 11th, 12th, 13th, 14th and 15th June, 2026 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 132nd meeting held on 22nd, 23rd & 24th June, 2026. The SEAC has recommended following project specific conditions:-

The TORs prescribed for undertaking detailed EIA study are as follows:

1. The directions proscribed and prescribed in the Office Memorandum No. FC-11/119/2020-FC, Dated : 17th May, 2022 of MoEF&CC shall be strictly adhered to.
2. In compliance of OM no. F.No. 1A3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign “*Ek Ped Ma Ke Naam*” and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.
3. PAs shall obtain Stage-I Clearance under Forest (Conservation) Act, 1980 or certificate from DFO, Ramgarh Forest Division stating that Forest (Conservation) Act, 1980 is not applicable on the forest land area within the project before submission of the application for final EC.
4. The EIA Report shall be prepared MTPA rated capacity in an ML / project area of ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
5. An EIA-EMP Report would be prepared for MTPA rated capacity to cover the impacts and management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for MTPA of coal production based on approved

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project/Mining Plan for MTPA. Baseline data collection can be for any season except monsoon.

6. A map specifying locations of the State, District and Project location should be provided.
7. A Study area map of the core zone and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
8. Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note on the land use.
9. Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
10. A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
11. A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
12. In case of any proposed diversion of nallah/canal/river, the proposed route of diversion /modification of drainage and their realignment, construction of embankment etc. should also be shown on the map as per the approval of Irrigation and Flood Control Department of the concerned state.
13. Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map.
14. Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

Land use details for opencast project should be given as per the following table :

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S. N.	Land use	Within ML area	Outside ML area	Total
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			

15. Break-up of lease/project area as per mining operations should be provided.
16. Impact of changes in the land use due to the project, if much of the land being acquired is predominantly agricultural land/forestland/grazing land.
17. One-season (non-monsoon) primary baseline data on environmental quality - air (PM10, PM2.5, SOx, NOx and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
18. Map of the study area (1: 50, 000 scale) (core and buffer zone clearly delineating the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources should be provided. The number and location of the stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Values should be provided based on desirable limits.
19. Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora fauna and, or if the area is occasionally visited or used as a habitat by Schedule-I fauna, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan should be prepared and submitted with EIA-EMP Report; and comments from the CWLW of the State Govt. should also be obtained and furnished.
20. Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included.

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21. Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
22. Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
23. Detailed water balance along with flow chart should be provided. The break-up of water requirement for the various mine operations should be given separately.
24. Source of water for use in mine, sanction of the competent authority in the State Govt. and impacts vis-à-vis the competing users should be given.
25. Impact of mining and water abstraction use in mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
26. Impact of blasting, noise and vibrations should be given.
27. Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
28. Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop, management plan for maintenance of HEMM, machinery, equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
29. Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP / Silo entirely wagons and into trucks / tippers.
30. Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
31. Efforts be made for maximizing progressive internal dumping of O.B., sequential mining, external dump on coal bearing area and later rehandling into the mine void.--to reduce land degradation.



32. Impact of change in land use from mining operations and whether the land can be restored to agriculture use post mining.
33. Progressive Green belt and Ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEF&CC given below) and selection of species (native) based on original survey/land use should be given.
34. Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the status of pre- mining should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of rehandling (wherever applicable) and backfilling and progressive mine closure and reclamation should be detailed.

Table 3 : Post-Mining land use pattern of ML / Project area (ha)

Land use during mining	Land use (ha)				
External OB dump	Plantation	Water body	Public use	Undisturbed	Total
Top soil dump					
Excavation					
Roads					
Built up area					
Green belt					
Undisturbed area					
	Total				

35. Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic wastewater, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the max. possible extent should be accorded ?.
36. Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
37. Risk Assessment and Disaster Preparedness and Management Plan should be provided.
38. Integration of the Environmental Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.
39. Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
40. Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the

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resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.

41. CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
42. Corporate Environment Responsibility:
 - a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
 - d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
43. Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of public hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
44. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
45. Status of any litigations/ court cases filed/pending on the project should be provided.
46. Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.
47. Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

Details on the Forest Clearance should be given as per the format given :

Total ML / Project area	Total forest land (ha)	Date of FC	Extent of forest land	Balance area for which FC	Status of application
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(ha)				is yet to be obtained	for diversion of forest land

48. Besides the above, the below mentioned general points should also be followed:-

- A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- All documents may be properly referenced with index and continuous page numbering.
- Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- Where the documents provided are in a language other than English, an English translation should be provided.
- The Questionnaire for environmental appraisal of mining projects as prescribed by the Ministry shall also be filled and submitted.
- Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013 /41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

The EIA report should also include

- Surface plan of the area indicating Contours of main topographic features, drainage and mining area.
- Geological maps and sections and
- Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

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49. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
50. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF & CC, Govt. of India.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No : EC/SEIAA/2026-27/5002/2026/ 95

Ranchi, Date : 06.07.2026

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
3. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

