



File No: EC/SEIAA/2026-27/5000/2026

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,

Chandra Bhushan Sharma
Shreesatya Mines Private Limited
DN-36, Primarc Tower, 4th Floor, Sector - V, Salt Lake, Kolkata, 24 PARAGANAS NORTH, WEST
BENGAL, 700091
info@shreesatyamines.com

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 Burakhap Small Patch Coal Mine submitted to Ministry vide proposal number SIA/JH/CMIN/490746/2026 dated 08/06/2026.

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0101JH5752449N
(ii) File No.	EC/SEIAA/2026-27/5000/2026
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Name of Project	Burakhap Small Patch Coal Mine
(vii) Name of Company/Organization	Shreesatya Mines Private 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.: 371 348 , 345 , 349 , 368 , 369

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. Chandra Bhushan Sharma 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 shall be prepared for..... MTPA peak capacity 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 peak capacity to cover the impacts and 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.

S. No	Terms of Reference
1.3	If the washery is located within the mine lease or near to the mine lease its location should be cited separately also, providing pillar coordinates and site layout plan. In such cases cumulative impact of mine operation with washery to be assessed and EMP measure to be drawn to the worst scenario
1.4	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
1.5	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided

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	0.6	MTPA	Combination of two or three modes	Transport through road and rail



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/2026-27/5000/2026/

Ranchi, Date :

To: M/s Shreesatya Mines Private Limited,
Shri Satyanarayan Bansal,
Director,
DN – 36, Primarc Tower, Sector V, 4th Floor,
Salt Lake, Kolkata, West Bengal : 700091,

Sub: Prescribing of ToR to “Burakhap Small Patch Coal Mine of M/s Shreesatya Mines Private Limited, Village : Burakhap, Tehsil : Mandu, Distt. : Ramgarh, Jharkhand (57.05 Ha) (Proposal no.: SIA/JH/CMIN/ 490746 /2026) - regarding.

Ref: Your application no. Nil, dated : 23.09.2024.

Sir,

It is in reference to the project “Burakhap Small Patch Coal Mine of M/s Shreesatya Mines Private Limited, Village : Burakhap, Tehsil : Mandu, Distt. : Ramgarh, Jharkhand (57.05 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).

PROJECT DETAILS:

Sl	Parameter	Details
1	Project Name	: BURAKHAP SMALL PATCH COAL MINE
2	Project Proponent	: M/s Shreesatya Mines Private Limited
3	Address	: DN-36, Primarc Tower, Sector V 4th Floor, Salt Lake Kolkata, West Bengal 700091 Corporate Office : Infinity Tower, 2 nd Floor, Bistupur,

			Jamshedpur – 831001, Jharkhand	
4	Area	:	57.05 Ha.	140.97 Acres
5	Capacity	:	Peak : 0.60 MTPA	Rated : 0.40 MTPA
6	Type of Land	:	Forest Land: 51.00 Ha. & Non-Forest Land: 6.05 Ha.	
9	Project Cost	:	Rs. 77.30 Crores	
10	New or Expansion	:	New	
11	Gross Geological Reserve	:	11.03 Mte	
12	Extractable Reserve	:	2.2000 Mte	
13	No. of Fault	:	2	
14	No. of Seam	:	11	
15	Boreholes drilled	:	12	
16	Mine Life	:	8 Years	
17	Man power	:	27	
18	Water Requirement	:	266.715 KLD including 165.50 KLD for Plantation, 100 KLD for Dust Suppression & 1.215 KLD for workers.	
19	Water Source	:	Ground Water	
20	Power	:	The proposed Burakhap Opencast Project has been planned for a rated production capacity of 0.40 MT coal per annum and is located in Ramgarh Area of CCL. Presently, this area is virgin and a 11KV lines has passed beside the mining area. One number 11 kV OHTL feeders from nearby sub-station of DVC/Jharkhand Power Development Corporation will be required to feed power to the OCP. The source of power is JPDC, which may supply power at 11 kV. The Main Substation will be located near the external dumping area of proposed Mines where 11 kV will be stepped down to 3.3 kV by 2 nos. 0.63 MVA, 33/3.3 kV transformer in this Option. Electrical connection will be taken from Jharkhand Power Development corporation.	

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21	Crusher	:	Yes
22	Nearest Water Body	:	Damodar River passes through lease
23	Nearest Habitation	:	220m
24	Nearest Rail Station	:	Ranchi Road Railway Station (6.2 Km)
25	Nearest Air Port	:	Birsa Munda Airport (52 Km)
26	Nearest Forest	:	Notified Forest within the lease
27	Road & Highways	:	NH – 20 ~ passes through the lease
28	Eco-Sensitive Zone	:	Not within 15 Km
29	National Park / Wildlife Sanctuary / Corridor	:	Not within 15 Km
30	Project Affected Family (PAF)	:	0

LAND & LAND SCHEDULE:

Khata No.	Plot No.	Area (Ha.)	Type of Land
54	371	0.22	Gairmajuara Nala
54	348	6.04	Gairmajuara Nadi
54	369	0.69	Gairmajuara Nala
53	368	0.05	Raiyati
1	345 (P)	20.80	Gairmajuara Jungle Jhari
1	345 (P)	11.20	Notified Forest
1	349 (P)	3.62	Gairmajuara Jungle Jhari
1	349 (P)	15.38	Notified Forest
Total		58.00	

GM (JJ)~ Deemed Forest : 24.42 Hectares

Notified Forest : 26.58 Hectares

For which Forest Diversion Proposal has been filed vide Proposal No. FP/JH/MIN/QRY/577378/2026 on PARIVESH Portal.

Block Area : 58.00 Hectares

Proposed Project Area : 57.05 Hectares

*Differential Area : 0.95 Hectares

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TOPOSHEET & BOUNDING CO-ORDINATES:

Topo-Sheet No. : 73E/10 / F45B10
Latitude range : 23°38'48"N to 23°39'18"N
Longitude range : 85°32'56"E to 85°33'40"E

SITE DESCRIPTION:

National Highway 20 divides the Burakhap project area in two parts, East Quarry & West Quarry.

On the South side of the property lies the river flowing almost East - West. Thus, the periphery of the East quarry is:

East : local Nalla
West : NH20
South : River
North : Geological boundary

Periphery of West Quarry is:

East : NH20
West : Local Nalla
South : River
North : Geological boundary

As both the quarries have water bodies on its two sides and NH20 on one side, the barrier of suitable width has been left as per requirement of Coal Mines Regulations 2017.

Thickness of barriers left is as follows:

1. Barrier between the quarry edge and the Nalla: 15m (i.e. 15m is the minimum width of the barrier between the Quarry edge and the Nalla at any point)
2. Barrier between the Quarry edge and the Highway (public property): 45m.
3. Barrier between the quarry edge and the river: 45m (minimum): a barrier of 45m against the river has been clearly demarcated in the Geological report which has been maintained in the mining plan and will remain untouched throughout the life of the mine.
4. Further, two major faults have dissected the block in the east- west direction. Both the faults namely F1- F1 and F2-F2 are having throw of 200m and 30m respectively towards the south. Throw of fault F2- F2 increases to 35m towards west. It's not possible for the quarry to progress beyond the fault F1-F1 on South side. As a result, the barrier between the river and the quarry edge is more than 45m at places.

Embankment along Damodar River and Nala:

An embankment has been proposed to be constructed at a distance of 15meter from the bank of Damodar River, lying on the south of the Mine, and Nalas lying along the eastern and western boundary of the Mine. The embankment will be constructed strictly as per the provisions of theregulation 149 and other relevant regulations of CMR 2017.

The embankment along the Damodar river at southern side of project and along Nalas on easter and western boundary will protect the Mine from the flood. The Top RL of embankment will be plus 319.0 m, 3.0 m above the HFL of RL 316 m as per CMR 2017.

WORKING DETAILS:

Quarry-1 (East) will be exhausted in the 3rd year of quarry operation and then Quarry-2 (West) will be started. During Quarry-1 operation OB from Quarry- 1 will be dumped over the property of Quarry-2. It will again be re-handled during operation of Quarry-2.

1	Mining Method	Opencast Shovel Dumper with blasting in both coal and OB
2	Project Area and capacity	Block Area : 58.00 Ha. Proposed Project Area: 57.05 Ha. Proposed Rated Capacity : 0.40 MTPA Proposed Peak Capacity : 0.600 MTPA
3	No of Seams considered	Seam-XI, Seam-X, Seam-IXA, Seam-IX, Seam-VII, Seam-VI, Seam-V, Seam-IV, Seam-III, Seam-II, Seam-I
4	Name of Coalfield	Ramgarh Coal Field
5	Average Grade	G7
6	Exploration Details	Detailed exploration of the Coal Block was carried out to establish succession, disposition, quality and reserve of the coal seams. Due to structural complexity of the area, 12 drilling points with a borehole density of 20.68 holes per sq. km were proposed at suitable interval on a grad pattern. Grids measuring 100m x 100m and at place 50m x 50 m were prepared and 12 boreholes were drilled. Altogether eleven major Barakar coal seams were observed in the area out of which only three coal seams I, II and III were found to be workable. GR prepared by Directorate of Geology, Dept. of Mines and Geology, Govt. of Jharkhand and the net geological reserve was found to be 9.68 Mte which is the sum of the reserves of the three seams only viz. Seam-I, Seam-II and Seam-III only.
7	Life of the project	8 Years
8	Gross Geological Reserve	11.03 Mte
9	Net Geological Reserve	9.6800 Mte

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10	Blocked Reserve	7.2400 Mte
11	Mineable Reserves	2.4400 Mte
12	Extractable Reserve	2.2000 Mte
13	Depth of Working	119m (maximum)
14	Mode of Transport	Road and Road cum Rail
15	Overburden	6.1900 Mte
16	Striping Ration	3.60 m ³ /t

DESCRIPTION OF FAULT:

Two major fault has dissected the block in the east- west direction. Both the faults are having throws towards the south. As a sum totaleffect the block has been divided into three sub-blocks i.e Sector-I, Sector-II and Sector-III. The details of the faults have been tabulated in table below and the structure of individual seams have been depicted in Floor contour plans of the seams.

Fault No.	General Trend	Throw amount Dip & Direction	Linear Extension	a) Nature of Fault b) Evidence
F1-F1	E-W	i. 200m. ii. 80° southerly	630m	Curvilinear Oblique fault Intersected in JRB-01& JRB-06 and Difference of floor level.
F2-F2	E - W swinging to NWSE in the eastern part	i. 30m in the eastern part increasing to 35m towards west near JRB10 ii. 80° southerly	1065m	Curvilinear Oblique fault Intersected in JRB-07 & JRB-08 and Difference of floor level.

SEQUENCE OF COAL SEAMS:

The number of intersections of the individual seams (full thickness) is very few and depending on that a brief description of the lower seams has been attempted. For seams younger than Seam-III the intersections has further reduced to 1 or 2 boreholes hence for younger seams no detail description has been attempted.

Altogether 11 regional coal seams belonging to Barakar formation have been identified in Burakhap coal block. Among the 11 coal horizons except the last three horizons, Seam-I, Seam-

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II and Seam-III, rest younger horizons have very limited intersections to assess their thickness and quality parameters.

Hence in the present report no attempt has been made to calculate the reserve of those younger seams. Reserves have been estimated only for Seam- I, II and III.

In the northern and the central sector of the block as a result of the faults the lower thick seams, Seam-I to Seam V has come to the near surface position and out cropped within the block and the Barakar Gneiss contact runs east west along the northern fringe of the block. Due to the thickness of the seams and their near surface position these two sectors have become potential as opencast sector with respect to Seam-I, Seam-II and Seam-III. In the southern-most sector at the down thrown side of fault F1-F1 the seams have gone below and coal horizons from Seam-XI is present here. Since the thicker lower horizons has gone below this sector does not have any opencast potentiality.

Coal Seam	Variation In Seam Thickness (m) – Minimum	Variation In Seam Thickness (m) - Maximum	Variation In Parting (m) - Minimum	Variation In Parting (m) - Maximum	No. of sections considered
Seam-XI	3.02 (JRB-02)				1
Parting			56.23 (JRB-02)		1
Seam-X	1.75 (JRB-06)	3.94 (JRB-02)			3
Parting			21.82 (JRB01)	24.72 (JRB 02)	3
Seam-IXA	Thin bands (0.66 in JRB-06)	1.88(JRB-01)			3
Parting			15.09 (JRB01)	29.37 (JRB 06)	3
Seam-IX	Thin bands (0.10 in JRB01)	3.53 (JRB-02)			3
Parting			22.21 (JRB01)	64.67 (JRB 02)	3
Seam-VIII	Not Developed				

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Parting					
Seam-VII	3.80 (JRB-02)				1
Parting			18.90 (JRB-02)		1
Seam-VI	1.59(JRB-02)				1
Parting			23.32 (JRB-02)		1
Seam-V	3.29 (JRB-02)	5.43 (JRB-12)			3
Parting			2.12 (JRB12)	8.74 (JRB-02)	2
Seam-IV	3.00 (JRB-12)	6.70 (JRB-02)			2
Parting			26.70 (JRB02)	36.63 (JRB 12)	2
Seam-III	10.47 (JRB11)	31.16 (JRB-04)			8 (6 full & 2 part)
Parting			4.84 (JRB04)	24.14 (JRB 02)	4
Seam-II	4.97 (JRB-02)	15.34 (JRB-04)			4
Parting			5.66 (JRB04)	12.55 (JRB 03)	4
Seam-I	2.84 (JRB-02)	5.40 (JRB-04)			4
Parting with Gneiss			41.82 (JRB04)	119.05 (JRB-11)	3

DIP AND STRIKE:

The coal seams in Burakhap coal block, situated in the northern fringe of the central part of the basin, are having E-W trending strike dipping towards south. The strata showing steep dip of around 25°-30° in the northern part and gradually flatten to 10°-15° in the south and south-eastern part of the block.

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PROPOSED CALENDAR PROGRAM:

Year of Operation	Calendar Year	UG	OC	Total	OB MM3	SR
1	2027-28	0	0	0.0000	0	0
2	2028-29	0	0.10	0.1000	0.18	1.8000
3	2029-30	0	0.20	0.2000	0.37	1.8500
4	2030-31	0	0.40	0.4000	0.56	1.4000
5	2031-32	0	0.40	0.4000	1.19	2.9750
6	2032-33	0	0.40	0.4000	1.44	3.6000
7	2033-34	0	0.40	0.4000	1.44	3.6000
8	2034-35	0	0.30	0.3000	1.01	3.3667

Note: Calendar Plan / Production Plan for the entire life of the mine.

LAND USE:

Type	Land use (Proposed)	Land Use (End of Life)	Plantation	Water Body	Public/Co mpany Use	Undisturbed	Total
Excavation Area	18.83	0	0	0	0	0	0
Backfilled Area	0	5.93	5.93	0	0	0	5.93
Excavated Void	0	12.90	0	12.90	0	0	12.90
Without Plantation	1.00	1.00	0	0	0	1.00	1.00
Top Soil Dump	1.10	1.10	1.10	0	0	0	1.10

External Dump	5.28	5.28	5.28	0	0	0	5.28
Safety Zone	11.35	11.35	11.35	0	0	0	11.35
Haul Road between quarries	0.17	0.17	0.17	0	0	0	0.17
Road diversion	1.63	1.63	0	0	1.63	0	1.63
Diversion Or Below River Or Nala Or Canal	0	0	0	0	0	0	0
Settling Pond	0.10	0.10	0.10	0	0	0	0.10
Road And Infrastructure Area	2.41	2.41	2.41	0	0	0	2.41
Rationalization Area	3.50	3.60	3.60	0	0	0	3.60
Garland Drains	0.10	0	0	0	0	0	0
Embankment	5.69	5.69	5.69	0	0	0	5.69
Green Belt	5.89	5.89	5.89	0	0	0	5.89
Water Reservoir Near Pit	0	0	0	0	0	0	0
UG Entry	0	0	0	0	0	0	0
Undisturbed OR Mining Right For UG	0	0	0	0	0	0	0
Resettlement	0	0	0	0	0	0	0
Pit Head Power Plant	0	0	0	0	0	0	0
Water Harvesting	0	0	0	0	0	0	0
Total	57.05	57.05	41.52	12.90	1.63	1.00	57.05

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MACHINERIES / HEMM

S.No.	Type of Equipment	Capacity	Unit	Quantity
1	Diesel Hydraulic Shovel	1.5	Tonnes	1
2	Dumper	25	Tonnes	14
3	Drill	110	mm	3
4	Dozer	165	Horsepower (HP)	3
5	Diesel Hydraulic Backhoe	0.9	Cubic Meter	1
6	Crane	8	Tonnes	1
7	FE Loader	0.7	Cubic Meter	1
8	Tipping truck	10	Tonnes	1
9	Water sprinkler	10	KL	1

PLANTATION

A plantation program over life of the mine has been planned in a phase wise manner. Due precaution has been emphasized in green belt development as per the importance of the place. 7.5 m to 45 m wide green belt has been proposed all around the ML (i.e. 17.24 Ha. Safety Zone + Greenbelt).

The native species used for plantation in the region are sal, mahua, gulmohar, neem, siris, acacia, casuarina, mango, kaner, etc.

ESTIMATED BUDGET FOR ENVIRONMENT MANAGEMENT PLAN (EMP)

Particulars	Capital (Rs.)	Recurring (Rs.)
Plantation of 37008 tree over an area of 23.13 Ha. i.e. 1600 Tree / Hectare	1,85,04,000.00	37,00,800.00
Water Sprinkling	5,00,000.00	50,000.00
Annual Environment Monitoring & Compliance	0.00	10,00,000.00
PPE Kits for Workers	10,00,000.00	1,00,000.00
Total	2,00,04,000.00	48,50,800.00

STATUTORY CLEARANCES

1	Land Docs	:	Vesting order issued by Office of the Nominated Authority, Ministry of Coal, Govt. of India vide order no. NA-104/7/2023-NA, dated 08.06.2023 for life of mine i.e. 8 years.
2	CO	:	The CO, Mandu (Ramgarh) vide letter no. 922, dated 05.09.2024 has mentioned the 24.42 ha under khata no. 01, plot no. 345 & 349 of the project is recorded as "Jungle Jhari" in Khatian and khata no. 54, plot no. 371, 348 & 369 khata no. 53, plot no. 368 of the project is not recorded as "Jungle Jhari" in R.S. Khatian & Register II. For which diversion application of deemed Forest land under Forest (Conservation) Act, 1980 has been submitted vide proposal no. FP/JH/MIN/QRY/577378/2026.
3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 2030, dated 18.09.2024 certified that the proposed project site is outside Eco Sensitive Zone of Hazaribagh Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Ramgarh vide letter no. 1737, dated 05.09.2024 certified that the proposed plot is within the notified forest boundary. For which diversion application of Forest land under Forest (Conservation) Act, 1980 has been submitted vide proposal no. FP/JH/MIN/QRY/577378/2026.
5	Mine Plan Approval	:	Mine plan approved by Deputy Director, Coal Controller Organisation (A subordinate organisation of Ministry of Coal), Ministry of Coal, Govt. of India vide Application No. JHJH023/APP00277/2023, dated 28.08.2024.
6	Baseline Environmental Data Generation	:	The baseline environmental data is proposed to be generated during the post-monsoon season of 2026 (October to December 2026).

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. IA3-22/3/2024-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 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 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 :

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

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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.
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

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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 28o 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				

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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 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

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

48. Besides the above, the below mentioned general points should also be followed:-
 - a) A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
 - b) All documents may be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
 - d) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of mining projects as prescribed by the Ministry shall also be filled and submitted.
 - f) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
 - g) 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.

- h) 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

1. Surface plan of the area indicating Contours of main topographic features, drainage and mining area.
 2. Geological maps and sections and
 3. Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
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/2026-27/5000/2026/ 94

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.





