सत्यमेव जयते

State Level Environment Impact Assessment Authority, Jharkhand

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Letter No : **EC/SEIAA/2022-23/2742/2023/** Ranchi, Date :

To: **Shri Raj Kumar,**
HoD (Env.),
M/s Central Coalfields Limited,
Darbhanga House, P.O. – Ranchi,
Distt - Ranchi, Jharkhand – 834001.

Sub: Prescribing of ToR to **"Rohini Expansion OCP (0.75 MTPA) of M/s Central Coalfields Limited (North Karanpura Area) at Village : Tumang, Tehsil : Khalari, Distt.: Ranchi, Jharkhand (67.51Ha)", (Proposal No. SIA/JH/CMIN/416300/2023) - regarding.**

Ref: Your application no.- PO/Rohini/2023/1787, dated – 16.02.2023.

Sir,

It is in reference to the project **"Rohini Expansion OCP (0.75 MTPA) of M/s Central Coalfields Limited (North Karanpura Area) at Village : Tumang, Tehsil : Khalari, Distt.: Ranchi, Jharkhand (67.51Ha)"** submitted by you for seeking Terms of Reference (ToR).

This is a existing project which has been taken for appraisal on 23.02.2023.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 1 (a) (i) Mining of Minerals (Coal) as per EIA Notification, 2006.

Rohini OCP is an existing project administratively under North Karanpura Area of Central Coalfields Limited, falling in the village Tumang, Block Khalari of Ranchi District Jharkhand. The Project Report of Rohini OCP (0.8 MTPA) was sanctioned in March 1991 with capital investment of 27.18 Crores and the mine came into operation in FY 1992-93. Later, the expansion PR of Rohini OCP (2.0/2.30 MTPA) was approved by CCL Board on 29.09.2008. The project has been in operation as per the approved mining plan and mine closure plan of Rohini OCP (3.0 MTPA / 3.3 MTPA & 255.68 Ha) approved by CCL Board on 24-25.08.2016 and environmental clearance obtained for 3.30 MTPA within 255.68 Ha. from MoEFCC vide letter no: J-11015/227/2007-IA-II (M) Dt. 21.02.2017.

As the mineable reserves within the EC boundary of Rohini OCP is on the verge of exhaustion, it has been planned to exploit coal from 15.61 Ha. of area within the Karkatta block and falling outside the EC Boundary of Rohini OCP (3.30 MTPA and 255.68 Ha).

Therefore, a revised mining plan and mine closure plan of Rohini Expansion OCP has to be prepared for a rated capacity of 0.75 MTPA within the project area of 67.51 Ha. and subsequently approval from CCL Board will be obtained

Rohini Expansion OCP is located just south of Damodar river in Khalari block, Ranchi district of Jharkhand State. K.D Hesalong is situated south of the project while Purnadih OCP and Ashok OCP are situated on the other side of river Damodar. It is covered by the Survey of India topo-sheet no. 73-A/14. It lies between latitudes 23°40'48"N & 23°41'47"N and longitudes of 84°58'46"E& 84059'17E

The area is well connected by rail and road. The State Highway No 7 connecting Tandwa with Hazaribagh (40km) via Barkagaon passes 4km south of the block. The nearest railway station is Khalari, which is at a distance of 7 km from the block on the Barkakana-Dehri-on-sone loop line of North-Eastern Railways. Tori is another railway station, located south-west of the block at a crow-fly distance of about 55 km on the above loop line.

The Rohini block is characterized by more or less flat terrain with gentle undulations. Generally, the ground is slopping towards East in major part of the block. In the southern block it slopes towards Kendua stream. The minimum and maximum elevation of the area is 416m and 467m respectively. The drainage of the block is controlled by the Damodar River flowing along the eastern boundary of the block. The Kendua stream flowing roughly west to east in southern part discharges into Damodar River.

The mineable reserves within the proposed project boundary has been estimated as 1.90 MT of coal corresponding to a volume of OBR of 5.25 Mcum at an average stripping ratio of 2.76 cum/te. The life of the project is estimated as 3 years for a rated output of 0.75 Mtes of 'G-11' grade coal per annum.

There are three coal seams in the OC Block, which are designated as Middle Dakra, Top Lower Dakra, Upper Dakra Seam. The final depth of the Quarry is around 0-85 m.

Considering the technical parameters of the quarry, i.e gentle dipping of the seam, long strike length of quarry, multiple seam of various thickness ,total life of the project etc, the shovel dumper mining system has been proposed for the project. The benches would be made parallel to the roof and floor of the seam wherever possible.

Presently the Rohini Expansion OC Project substation (1x3 MVA ,11/3.3 KV) is receiving power at 11 kv through one No independent single feeder with ACSR conductor from old KDH substation (1X10 MVA,33/11 KV).This substation is situated near the KDH OCP at a distance of 1.0 km(approx.). The connected loads and energy consumption at optimum production level for the Rohini Expansion Opencast Project is summarized below:-

SN	Particulars	Values
1	Connected Load in Operation (in kW)	6596
2	Annual Energy consumption (in MkWh)	13.65

Water requirement:

Industrial water	Domestic water
309 m^3/day	142 m^3/day
The water requirement of the project is fulfilled by the mine water of Rohini OCP.	

The total project area of Rohini Expansion OCP is 67.51 Ha. The proposed land use during mining is as given below:

Sl. No	Land use During Mining	
	Particulars	**Area (Ha.)**
1	Quarry	11.93
2	Dump Area	17.26
3	Greenbelt and Safety Zone	4.92
4	Top Soil Storage Area	1.93
5	Coal Stock Yard	1.04
6	Road	1.91
7	Vacant Land and Old void	28.52
Total Project Area		**67.51**

Rohini Expansion OCP: Details of Mineable Reserves and OB Removal:

Year	Coal Production (MT)	OB Removal (Mcum)	Stripping Ratio (cum/te)
1	**0.40**	**1.10**	**2.76**
2	**0.75**	**2.07**	**2.76**
3	**0.75**	**2.08**	**2.76**
TOTAL	**1.90**	**5.25**	**2.76**

LAND DETAILS:

NAME OF MOUZA: - TUMANG

THANA No.

Village – Tumang - 5

KHATA No.

Tumang –

Tenancy Land – 10,11,14,16,17,27,28,29,38,42,46,47

GMK, GMJJ, Forest – 44

GMA – 45

PLOT No.

Tumang –

Tenancy

80,175,176,180,183,211,213,218,222,224,234,242,256,257,258,259,260,418,419,420,422,424,425,180/549,224/550,411(P),413(P),160,165,172,182,171,173,174,177,178,179,217,219,220,221,231,232,233,235,237,239,240,241,247,250,251,253,254,255,426,427,430,431,432,433,434,435,436,437,438,236,441,161,162,163,164,166,170,206,207,208,209,210,214,215,216,223,229,230,243,244,245,246,248,249,252,428,429,439,415,416,409(P),262,410,181,184,188,228,169,167,168

GMK – 81,238,417,423,440, 412(P), 421(P), 79(P),

Forest – 261(P), 263(P),35(P),35/560(P),404(P), 421(P), 48(P),48/561(P), 79(P),

GMA - 212,225,226,227

LAND FALLING IN VILLAGE-TUMANG, THANA No.5, CIRCLE -KHALARI								
KHATA NO.	PLOT NO.	TOTAL AREA AS PER KHATIAN (IN ACRES) .	AREA REQUIRED FOR ROHINI EXPANSION OCP (IN ACRES)					
			TENANCY	GMK	GMA	FOREST	GMJJ	TOTAL
44	35(P)	79.40				13.84		13.84
44	48(P)	53.60				19.77		19.77
44	79(P)	44.50		3.03		17.79		20.82
10	80	0.14	0.14					0.14
44	81	0.60		0.60				0.60
44	261(P)	41.50				22.04		22.04
38	262	1.20	1.20					1.20
44	263(P)	52.00				38.35		38.35
44	404(P)	15.50				1.58		1.58
29	409(P)	2.25	1.16					1.16
38	410	0.83	0.83					0.83

11	411(P)	3.17	1.98					1.98
44	412(P)	0.98		0.67				0.67
11	413(P)	1.23	0.69					0.69
44	421(P)	7.20		0.10		1.28		1.38
44	35/560(P)	5.00				1.98		1.98
44	48/561(P)	7.85				1.18		1.18
14	160	0.13	0.13					0.13
28	161	0.33	0.33					0.33
28	162	0.34	0.34					0.34
28	163	1.40	1.40					1.40
28	164	0.03	0.03					0.03
14	165	0.05	0.05					0.05
28	166	0.07	0.07					0.07
47	167	0.06	0.06					0.06
47	168	0.09	0.09					0.09
46	169	0.79	0.79					0.79
28	170	0.39	0.39					0.39
16	171	0.16	0.16					0.16
14	172	0.84	0.84					0.84
16	173	0.06	0.06					0.06
16	174	0.17	0.17					0.17
11	175	0.21	0.21					0.21
11	176	0.34	0.34					0.34
16	177	0.38	0.38					0.38
16	178	0.09	0.09					0.09
16	179	0.20	0.20					0.20
11	180	0.23	0.23					0.23
42	181	0.35	0.35					0.35
14	182	0.58	0.58					0.58
11	183	0.26	0.26					0.26
42	184	0.02	0.02					0.02
42	188	0.54	0.54					0.54
28	206	0.17	0.17					0.17
28	207	0.02	0.02					0.02
28	208	0.15	0.15					0.15
28	209	0.30	0.30					0.30
28	210	0.79	0.79					0.79
11	211	1.20	1.20					1.20
45	212	0.11			0.11			0.11
11	213	0.52	0.52					0.52
28	214	0.14	0.14					0.14
28	215	0.73	0.73					0.73
28	216	0.55	0.55					0.55
16	217	0.60	0.60					0.60

11	218	0.15	0.15					0.15
16	219	0.57	0.57					0.57
16	220	0.02	0.02					0.02
16	221	0.02	0.02					0.02
11	222	0.75	0.75					0.75
28	223	0.39	0.39					0.39
11	224	0.07	0.07					0.07
45	225	0.57			0.57			0.57
45	226	0.01			0.01			0.01
45	227	0.02			0.02			0.02
42	228	0.01	0.01					0.01
28	229	0.06	0.06					0.06
28	230	0.38	0.38					0.38
16	231	0.30	0.30					0.30
16	232	0.31	0.31					0.31
16	233	0.36	0.36					0.36
11	234	0.44	0.44					0.44
16	235	0.42	0.42					0.42
17	236	0.07	0.07					0.07
16	237	0.71	0.71					0.71
44	238	0.49		0.49				0.49
16	239	0.44	0.44					0.44
16	240	0.14	0.14					0.14
16	241	0.09	0.09					0.09
11	242	0.55	0.55					0.55
28	243	0.06	0.06					0.06
28	244	0.26	0.26					0.26
28	245	0.16	0.16					0.16
28	246	0.24	0.24					0.24
16	247	0.05	0.05					0.05
28	248	0.27	0.27					0.27
28	249	0.15	0.15					0.15
16	250	0.06	0.06					0.06
16	251	0.10	0.10					0.10
28	252	0.06	0.06					0.06
16	253	0.32	0.32					0.32
16	254	0.38	0.38					0.38
16	255	0.62	0.62					0.62
11	256	0.05	0.05					0.05
11	257	0.29	0.29					0.29
11	258	0.12	0.12					0.12
11	259	0.03	0.03					0.03
11	260	1.06	1.06					1.06
29	415	0.87	0.87					0.87

29	416	0.65	0.65					0.65
44	417	0.08		0.08				0.08
11	418	0.23	0.23					0.23
11	419	0.26	0.26					0.26
11	420	0.15	0.15					0.15
11	422	0.76	0.76					0.76
44	423	0.08		0.08				0.08
11	424	1.56	1.56					1.56
11	425	1.13	1.13					1.13
16	426	0.40	0.40					0.40
16	427	0.08	0.08					0.08
28	428	0.06	0.06					0.06
28	429	0.10	0.10					0.10
16	430	0.03	0.03					0.03
16	431	0.21	0.21					0.21
16	432	0.12	0.12					0.12
16	433	0.08	0.08					0.08
16	434	0.08	0.08					0.08
16	435	0.25	0.25					0.25
16	436	0.10	0.10					0.10
16	437	0.12	0.12					0.12
16	438	0.10	0.10					0.10
28	439	3.12	3.12					3.12
44	440	1.54		1.54				1.54
27	441	1.00	1.00					1.00
11	180/549	0.33	0.33					0.33
11	224/550	0.08	0.08					0.08
TOTAL AREA IN ACRE			**41.68**	**6.59**	**0.71**	**117.81**	**0.00**	166.79
TOTAL AREA IN HECTARE			**16.87**	**2.67**	**0.29**	**47.68**	**0.00**	**67.51**

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Land has been acquired under LA Act 1894 FC diversion : Stage II ref no8-60/1994-FC Dt. 30.07.2015
2	CO	:	The CO, Khalari vide letter no. 729(ii), dated 02.12.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DFO Wild Life	:	DFO, Wildlife Division Ranchi vide letter no. 1148, dated 28.12.2022 and letter no 47 dated 11.01.2023 certified that the said project is out of Eco Sensitive Zone of Palkot

			Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Ranchi Division vide letter no. 134, dated 09.01.2023 certified that the distance of reserved / protected forest is less than 250 m from proposed project site.
5	Diversion of forest land	:	**Diversion of 74.81 ha** of forest land by MoEF&CC, Govt. fof India vide : i. F.no. 8-60/1994-FC dated 24.01.2013. ii. F.no. 8-60/1994-FC dated 30.07.2015.
6	Previous EC	:	Previous EC grated by MoEF&CC, Govt. of India vide letter no. J-11015/227/2007-IA.II(M)pt dated 21.02.2017
7	Existing CTE	:	CTE granted by JSPCPB vide Ref. no. JSPCB/HO/RNC/CTE-1309023/2018/284 dated 26.03.2018
8	Existing CTO	:	CTO granted by JSPCPB vide Ref. no. JSPCB/HO/RNC/CTO-14755723/2023/15 dated 03.01.2023.

SEAC, Jharkhand has suggested the ToRs in its 101st meeting held on 20th, 21st, 22nd, 23rd and 24th February, 2023 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 102nd meeting held on 17th & 18th March, 2023. The SEAC has recommended following project specific conditions:-

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

1. 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.
2. 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.
3. A map specifying locations of the State, District and Project location should be provided.
4. 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.

5. 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.

6. 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.

7. 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.

8. 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 thereoff 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.

9. 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.

10. 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.

11. 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)			

12. Break-up of lease/project area as per mining operations should be provided.

13. 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.

14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

19. Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing though the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.

20. 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.

21. 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.

22. 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.

23. Impact of blasting, noise and vibrations should be given.

24. Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.

25. 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.

26. 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.

27. 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.

28. 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.

29. Impact of change in land use from mining operations and wether the land can be restored to agriculture use post mining.

30. 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.

31. 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				

32. 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 ?.

33. 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.

34. Risk Assessment and Disaster Preparedness and Management Plan should be provided.

35. Integration of the Environmental Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.

36. Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.

37. 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.

38. 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.

39. 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.

40. 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.

41. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.

42. Status of any litigations/ court cases filed/pending on the project should be provided.

43. 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.

44. 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

45. 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.

46. 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.

47. 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/2022-23/2742/2023/** 469 . Ranchi, Date : 24.03.2023.

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

24/03/2023
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.