State Level Environment Impact Assessment Authority, Jharkhand
Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004
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Letter No : **EC/SEIAA/2022-23/2655/2022/ 290** Ranchi, Date : 12.12.2022

To: **M/s Central Coalfields Limited,**
Shri Soumitra Singh (General Manager (Env.),
Darbhanga House, P.O. – Ranchi,
Distt - Ranchi, Pin Code – 834001(Jharkhand).

Sub: Prescribing of ToR to **"Selected Dhori (Lower) Open Cast Mine of M/s Central Coalfields Limited at Village : Turio, Makoli, Tarmi, Tehsil : Bermo, Distt. : Bokaro, Jharkhand (211.82 Ha)", (Proposal No. SIA/JH/CMIN/402680/2022) - regarding.**

Ref: Your application no.- PO/SDOCM/Lower Seam/EC APP/2022-23/1751, dated – 21.10.2022.

Sir,

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.

This is a new project which has been taken for appraisal on 02.11.2022.

Background and Executive Summary :

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.

Selected Dhori GoM is a brown field project which has been under operation since nationalization. The project was accorded EC vide letter no. F.No. 23-80/2018-IA.III (M) dated 27.04.2020 for a mine life of 02 years involving extraction of coal reserves from upper seams i.e. Seam VI to X, which are on the verge of exhaustion.
Therefore, it is proposed to tap the lower Karo V and Karo III seams of Selected Dhori Project. The lower seams (Karo-V and Karo-III) have an estimated coal reserve of

around 10.72 Mte. which can add eight years to the life of mine at rate of proposed production capacity of 2 MTPA within the project area of 211.82 Ha. Accordingly, the Mining plan and Mine closure plan of Selected Dhori (Lower) OCM within the project area of 211.82 Ha has been prepared and was approved by CCL Board in its 509th Meeting held on 09.12.2021.

The mineable reserves available in Selected Dhori GoM (Lower Seams) is a high-grade coking coal of washery grade-III. Extracting coal from this mine would help in bridging gap between the energy needs and the supply of coal.

This project has been a major economical source to the nearby villagers. This project, when in operation, provides direct employment to around 1038 people and indirect employment to 1500 villagers. Thus, this project has been playing a major role in the socio-economic upliftment of the nearby villagers.
The project falls in the East Bokaro Coalfields, Bermo CD Block located in Bokaro District of Jharkhand. The project falls within latitudes 23° 45' 30.50"N to 23° 46' 33.91"N and longitudes 86° 01' 35.77"E to 86° 02' 43.64"E and falls in the Survey of India Toposheet no. 73 I/1.

The Gomoh-Barkakana loop line of the Eastern Railway passes adjacent to the area. The nearest railway Station 'Phusro' on the Barkakana-Gomoh loop line is about 2 km to the west of the area. The area is well connected by an all-weather Phusro-Dumri metalled road up to the existing Tarmi opencast project of CCL. The block is about 30km from Bokaro, about 80km from Dhanbad & about 110 km from Ranchi. The nearest commercial airport is situated at Ranchi.

The Selected Dhori block represents rugged topography being traversed by a major flat-topped hill, some isolated hillocks and dumps of existing and old quarries. The general elevation within the block lies between 213 m to 326 m above mean sea level. The ground slopes generally from north to south in the project area.

The balance mineable reserve of project within the quarry area of 179.44 Ha is 10.72 Mte for life of 8 years. The mineable reserves available is a high-grade coking coal of washery grade-III. Proposed seams to be worked in the project are Karo VI to X combined, Karo V and Karo III. Final depth of the quarry will be 120 meters.

Total overburden quantities estimated for the proposed project is 66.00 Mcum of OB. Out of which about 9.72 Mcum of OB has been proposed to be rehandled from 4th year onwards. All the OB removed will be backfilled within the quarry itself. The proposed dump height is maximum 60m from immediate surface level. Total two decks of height 30m each leaving 30m wide berms on each deck have been proposed and the final stage dump will attain a maximum RL of 270m. Coal produced from the project is transported to nearby Tarmi railway siding for onward transportation to projects.

The proposed Pre-mining & Post-Mining Land Use is given below:

Sl. No.	Land Use	Area in Ha	Post Mining Land Use	Area in Ha
1	Quarry	179.44	Internal dump reclaimed with Plantation	151.51
			void filled with water	27.93
2	Tisri Nala and Joria Nala	1.48	Tisri Nala and Joria Nala	1.48
3	Road & Infrastructure	5.06	Infrastructure for future use	5.06
4	Embankment	1.69	Plantation on Embankment	1.69
5	Green Belt & Safety Zone	24.15	Plantation on Green Belt & Safety Zone	24.15
Total		**211.82**	**Total**	**211.82**

The peak industrial water demand for the project was projected as 1013 cum/day. The domestic water demand (colony + industrial buildings) was projected as 870 cum/day. Thus, the total water requirement is 1883 cum/day.

The capital investment for the project is approximately Rs. 197.71 Crore.

This project has been a major economical source to the nearby villagers. This project, when in operation, provides direct employment to around 1038 people and indirect employment to 1500 villagers. Thus, this project has been playing a major role in the socio-economic upliftment of the nearby villagers. Further, this project has been effectively contributing to the developmental activities in nearby villages through CSR and other means.

LAND DETAILS:

Mouza	Thana no.	Khata No.	Plot No.
Makoli	69	1	114/119
		12	114/118
Turio	70	34	1 & 289
Tarmi	71	52	1

The Mining plan and Mine closure plan of Selected Dhori (Lower) OCM within the project area of 211.82 Ha has been prepared and was approved by CCL Board in its 509th Meeting held on 09.12.2021. The existing & proposed configuration of the project is summarized below:

Sl. No.	Particular	Existing Configuration as per EC dated: 27.04.2022	Proposed Configuration as per Present Proposal	Remarks
1	Peak Capacity	11 MTPA	2 MTPA	--
2	Seams Proposed to be mined out	Seam VI to Seam X	Seam III to Seam X	Inclusion of lower seams from Seam III to Seam V
3	Balance Life	2 Years	8 Years	Increase in balance life due to reduction in

				peak capacity & addition of lower Seam
4	Overburden	3.04 Mcum	66 Mcum	Increase in Total OB due to addition of lower Seam
5	Mineable Reserve	12.32 MT	10.72 MT	--
6	Project Area	264.85	211.82	Reduction in area due to removal of un-diverted forest land
7	Stripping Ratio	0.25 Cum/T	6.16 Cum/T	

In addition, it is also proposed to amend condition no. 5 (i) of the Environmental Clearance of Selected Dhori GoM (11 MTPA/ 264.85 Ha) related to NCRAP of the project.

Sl. No.	Existing Condition as per EC dated: 27.04.2022	Proposed Configuration as per Present Proposal	Remarks
1	Drinking Water Facility (Construction of bore wells with pressure filters and water towers) in 20 villages at a cost of Rs 40 Crores	The fund will be diverted into a corpus for sustainability of Sports and Educational Complex (30 Crores and beautification of three ponds in Dhori Area (Site Name: Pichri North, Pichri South & Bhola Nagar) (15 Crores)	The said activity needs to be removed as the said work is already being undertaken by Jharkhand State Govt. under the scheme of Jal Jivan Mission. In view of this, the said amount that is Rs 40 Crores is to be transferred to Community Resource Augmentation Plan

Description of Seams:

Karo VI to X combined has been considered for mining. This seam forms the topmost seam in the proposed mining area. The seam has been mined extensively with an occurrence of fire in the area. Presence of this seam is possible in patches in the proposed mining area. Since its extent and quantity could not be ascertained due to past mining, its reserve has not been assessed. However, the same needs to mined out along with the underlying seams. Seam IV, Seam II and Seam I. These seams are not mineable due to very low thickness.

Sl.No.	Seam Name	Avg Thickness considered (m)	Thickness range (m)	Geological Reserve (MT)	Mineable Reserve (MT)
1	Karo VI to X	-	57.33-69.28	-	-
2	Karo V	3.00	2.92-4.93	7.01	4.51
3	Karo IV	-	0.18-1.15	-	-

4	Karo III	4.00	3.25-7.66	12.75	6.21
5	Karo II	-	0.17-1.25	-	
6	Karo I	-	0.30-0.40	-	
	TOTAL			19.76	10.72

Proposed Calendar Programme of Production:

The summarized mining schedule for coal extraction and corresponding overburden load for the project, annual coal & OB production schedule has been provided in the table below :

Period	Year	Coal Production (Mt)	OB Removal (Mcum)	Stripping Ratio (cum/te)
Capacity built-up	1	0.50	3.70	7.41
	2	1.00	7.41	7.41
	3	1.50	10.18	6.79
Production	4	2.00	12.36	6.18
	5	2.00	11.40	5.70
	6	2.00	11.43	5.72
Tapering	7	1.20	6.66	5.55
	8	0.52	2.85	5.49
TOTAL		**10.72**	**66.00**	**6.16**

Power Requirement:

It is envisaged that this project will receive power at 33 kV from Bokaro Thermal Power Station (BTPS) of DVC. For this, two nos. existing 33 kV overhead lines from BTPS to B&K Main-sub-station shall be extended up-to proposed quarry. A 33 kV energy meter shall be installed for recording its energy consumption. Approximate distance of the quarry from B&K Sub-station is approximately 5 km.

Further, it is proposed to establish 1 no 2 X 5 MVA, 33/6.6 kV sub -station with provision for 2 nos. incoming 33 kV feeders and 12 nos. outgoing 6.6 kV feeders for supply of power to different power consuming equipment of the project.

Water Requirement:

The peak industrial water demand for Selected Dhori GoM (Lower Seams) was projected as 1013 cum/day. The domestic water demand (colony + industrial buildings) was projected as 870 cum/day. Thus, the total water requirement is 1883 cum/day.

Proposed source of water is from mine water of Selected Dhori Quarry & from Integrated Water Supply System (IWSS). NOC from CGWA has been granted vide no: CGWA/NOC/MIN/ORIG/2021/ 13591 Dated:01.11.2021 for a permitted quantity of 2841 KLD.

The proposed land use for the project is given below:

Sl. No.	Land Use	Area in Ha
1	Quarry	179.44
2	Tisri Nala and Joria Nala	1.48

3	Road & Infrastructure	5.06
4	Embankment	1.69
5	Green Belt & Safety Zone	24.15
Total (in Ha)		**211.82 Ha**

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Land of SDOCM has been partially vested through Coal Mines Nationalization Act and Partially acquired through CBA Act.
2	CO	:	The CO, Chandrapura (Bokaro) vide letter no. 875, dated 09.09.2022 and CO, Bermo (Bokaro) vide letter no. 556, dated 05.09.2022 have mentioned the plot nos. of the project are recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1906, dated 24.09.2022 certified that the said project is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Bokaro Forest Division vide letter no. 2788, dated 30.09.2022 certified that the applied plots of proposed project site is forest land.
5	Mine Plan Approval	:	Ref No.:- CS/BM/509/2022/32, Dated:- 03.01.2022.
6	CGWA	:	NOC for Ground Water Abstraction vide NOC no. CGWA/NOC/ ORIG /2021/13591, dated 01.11.2021.
7	Diversion of forest land	:	i. Stage-I granted MoEF&CC, Govt. of India vide F. no. 8-122/90-FC, dated 03.01.1992 for area 143.05 ha. ii. Stage-II granted MoEF&CC, Govt. of India vide F. no. 8-122/90-FC, dated 01.07.1996 for area 143.05 ha. iii. Stage-I granted MoEF&CC, Govt. of India vide F. no. 8-69/2004-FC, dated 10.09.2004 for area 69.183 ha. iv. Stage-II granted MoEF&CC, Govt. of India vide F. no. 8-69/2004-FC, dated 02.03.2009 for area 69.183 ha. v. Re-application for diversion of forest land vide proposal no. FP/JH/MIN/40575/2019, dated 17.05.2021 for area 143.05 ha.

During the presentation the following documents were sought:

i. Self certified compliance report of previous Environmental Clearance.

The Project Authorities have submitted the above mentioned document.

The Project Authorities have requested for waiver of Public Hearing. The present EC dated 27.04.2020 has been granted by MoEF&CC, Govt. of India based on Public Hearing conducted on 27.08.2016. After due deliberations that the present proposal is for lesser production capacity and area thus the Committee is of the view that the Public Hearing is recommended for waiver.

SEAC, Jharkhand has suggested the ToRs in its 98th meeting held on 02nd, 03rd, 04th and 05th November, 2022 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 99th meeting held on 28th & 29th November, 2022. The SEAC has recommended following project specific conditions:-

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

1. Cumulative EIA / EMP study to be carried out for all the mining activity existing in the study area.
2. Site inspection report by the Regional Office, Ranchi of MoEF&CC, Govt. of India vide letter no. 103-558/ROR-2020/502 dated 26.08.2022 states that some of the conditions of the EC dated 27.04.2020 are either not complied or patially complied. Before considering for grant of EC all the conditions of the EC dated 27.04.2020 must be complied.
3. The EIA Report shall be prepared 2 MTPA rated capacity in an ML / project area of 211.82 ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
4. An EIA-EMP Report would be prepared for 2 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 2 MTPA of coal production based on approved project/Mining Plan for 2 MTPA. Baseline data collection can be for any season except monsoon.
5. A map specifying locations of the State, District and Project location should be provided.
6. 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.
7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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)			

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

15. 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.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

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

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

27. 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.

28. 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.

29. 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.

30. 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.

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

32. 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.

33. 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				

34. 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 ?.

35. 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.

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

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

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

39. 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.

40. 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.

41. 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.

42. 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.

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

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

45. 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.

46. 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

47. 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.

48. 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.

49. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.

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

Memo No : **EC/SEIAA/2022-23/2655/2022/** 290 Ranchi, Date : 12.12.2022

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.

12/12/2022
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.