

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/2022-23/2621/2022/

Ranchi, Date :

**To: M/s The Andhra Pradesh Mineral Development Corporation Limited,
Door No. 294/1D, 100 Feet Tadigadapa to Enikepadu Road,
Kanur, Vijayawada – 521137 (Andhra Pradesh).**

Sub: Prescribing of ToR to “Brahmadiha Coal Mine for production of 0.5 MTPA Normative Coal through Opencast mining method with total excavation of 22.982 MCum of M/s The Andhra Pradesh Mineral Development Corporation Limited (APMDC) at Village : Bhorandiha, Bishwasdih, Budhiadih, Chunjka & Tikodih, Tehsil & Distt. : Giridih, Jharkhand (105.153 Ha)”, (Proposal No. SIA/JH/CMIN/72368/2022) - regarding.

Ref: Your application no.- APMDC/HO/Brahmadiha/2022-23/19, dated – 27.07.2022.

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 I (a) (i) Mining of Minerals (Coal) as per EIA Notification, 2006.

This is a new project which has been taken for appraisal on 16.08.2022.

The coal block (named Brahmadiha Coal Mine) was earlier allocated to M/s Castron Technologies Ltd. in 1997. The EC was obtained for this coal block vide F. No. J- 110015/14/2002-IA.II(M) on 12.03.2004, later on it was transferred in the name of M/s. Castron Mining Ltd. vide F. No. J- 110015/14/2002-IA.II(M) on 09.12.2009. The coal block was de-allocated in September 2014 as per the judgment of Hon’ble Supreme Court. Now the block (named Brahmadiha Coal Mine) has been allotted to M/s Andhra Pradesh Mineral Development Corporation Limited (APMDC) for sale of Coal under the provisions of the Coal Mines (Special Provisions) Act 2015.

After allocation of the coal block, APMDC desired to obtain transfer of EC from MoEF & CC. Accordingly, it applied for transfer of EC through online in PARIVESH portal. The proposal was deliberated in the MoEF & CC and concluded that the validity of EC dated 12th March, 2004 has been expired and EC is no more valid and therefore cannot be transferred. Also, the MoEF & CC directed to apply fresh proposal of Environment Clearance as per EIA Notification, 2006 and its amendments therein i.e., under Category B as per EIA Notification, 2006 (the area of project is less than 150 ha) to State Authority. The current proposal is production of 0.5 MTPA (peak 0.75 MTPA) coal through Opencast mining method with total excavation of 22.982 MCum. Total mine lease area is spread over 105.153 Ha.

PROJECT and LOCATION Details:

Project Name	Brahmadiha Coal Mine		
Location of Mine Site	Villages – Bhorandiha, Bishwasdih, Budhiadih, Chunjka & Tikodih, Tehsil & District – Giridih, State – Jharkhand		
Mining Lease Area	Total Lease area: 105.153 Ha		
Type of Land	Private Land	Govt. Land	Total
	56.990 Ha	48.163 Ha	105.153 Ha
Coordinates	24°08'19" to 24°09'18" N 86°19'12" to 86°19'53" E		
Mine Lease Area Located in Toposheet/OSM no.	72L/8		
Minerals of mine	Coal		
Total Geological reserves	5.56 MT		
Total Mineable reserves	2.215 MT		
Extractable reserves	1.92 MT		
Life of mine	6 years		
Proposed production of mine	0.5 MTPA		
Method of mining	Shovel and Dumper Combination for Open Cast Mining of Coal		
No. of working days	300 days and 3 shifts per day		
Water demand	Make-up Water requirement is about 327 KLD.		

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Sources of water	<p>7 KLD water will be used for drinking and sourced from Borewell.</p> <p>320 KLD water will be used for other processes and sourced from Mine Pit Water.</p> <p>Permission for both the above obtained from CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/14517, Dt. 10.02.2022.</p>
Power requirement	A total of 11 KV will be required for the proposed activity. Electrical power requirement for the proposed Mining Plant shall be met from proposed 132/11 KV substation located in Giridih. Power supply to MRS shall be made by extension at proposed 33/11 KV sub-station and through 3 km 33 KV double circuit line overhead line with wolf conductor up to Main Receiving Station.
Manpower	200
Nearest railway station	Giridih Railway Station, 3.2 Km, NE.
Nearest State Highway/ Nationalhighway	SH13 is at 1.0 km in NE. Metalled Road connects to Burhidih(Budiadih) to Biswasdih passes through the mine lease.
Nearest airport	Birsa Munda Airport, Ranchi is about 140 Km in SW direction.
Seismic zone	Zone II, as per Seismic Map of India
Project Cost	Rs. 90 Crores

Land Details:

Mouza	Khata no.	Plot no.
Chunjka	5, 7, 22, 30, 33 and 54	913P to 917P, 918 to 932, 933P, 1213, 1223 and 1232
Budhiadih	1 to 15, 17, 19 to 24, 26, 27, 30, 37 to 42, 44, 46, 51, 52, 65, 150 and 162	402P, 407P, 409P, 410, 411, 412P, 413 to 417, 418P, 419P, 426P, 427P, 774, 775P, 776, 777P, 778, 779P, 780P, 783P, 784 to 791, 792P, 793 to 935, 936P to 939P, 940 to 945, 946P, 947P, 1048P, 1110P, 1111P and 1112 to 1207

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Bhorandiha	6, 8, 10, 13, 19, 20, 34, 37, 39 to 43, 46, 47, 50, 72, 77, 82, 83, 103, 128, 140, 143, 145, 179, 189, 191, 193 and 197	704P to 708P, 709, 725P, 726, 727, 728P, 730P, 836P, 839P, 840P, 852P, 858P, 859P, 860 to 863, 864P, 865, 866P, 871P, 872P, 873 to 875, 876 P to 880 P, 881 to 897, 898 P, 899 P and 932
Bishwasdih	1 to 4, 6, 8, 10 to 14, 17, 20, 23, 25, 26, 29, 30, 32, 34, 36, 38, 42, 44, 45, 47, 49, 50, 56, 57, 63, 64, 71, 73 and 103	1, 2, 3P, 4 to 59, 60P to 62P, 63, 64P, 66P, 67, 68P, 106P, 107 to 110, 111P, 112 to 136, 137P to 139P, 140 to 150, 151P to 153P, 164P, 165P, 166, 167, 168P, 169P, 169, 170, 171P, 176P, 333P, 334P, 336P, 337P, 338 to 344, 345P, 346P, 347, 348P, 368P and 370P
Tikodih	1 to 5, 7, 8, 10, 11, 13 to 17, 19, 20, 22, 24 to 30, 33 to 35, 37, 39, 40, 43, 44, 46 to 48, 50 to 52, 57, 59, 63, 71, 81 and 84	1 to 103, 104P, 105P, 106 to 123, 124P, 125 to 158, 159P, 160, 161, 162P, 163, 164P, 165P, 166, 167, 168P, 169, 198P, 200P, 201P, 203P, 204, 205, 206P, 219P to 221P, 234P, 249P, 250P, 252P, 253 to 255, 256P, 257, 258, 259P, 261P, 262P, 263, 264, 265P, 280P, 281 to 283, 284P, 285 to 293 and 294P to 298P.

Year Wise tentative Topsoil and OB generation:

Year of operation	Calendar Year	Total (OB + Top Soil) in MM³	OB in MM³	Topsoil in MM³
Year-1	2021-22	0.50	0.38	0.12
Year-2	2022-23	1.41	1.22	0.19
Year-3	2023-24	5.00	4.73	0.27
Year-4	2024-25	5.00	4.65	0.35
Year-5	2025-26	5.00	5.00	0.00

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Year-6	2026-27	2.55	2.55	0.00
Total		19.46	18.53	0.93

Re-Handling Schedule:

Year	Operation Year	OB Mcum
3rd Year	2023-24	1.00
4th Year	2024-25	0.91
Total		1.91

Proposed Production Schedule: Stripping Ratio

Proposed Production Schedule						
Year of operation	Calendar Year	Coal Production (MT)			OB (MM3)	SR
		UG	OC	Total		
Year-1	2021-22	-	-	-	0.50	-
Year-2	2022-23	-	0.15	0.15	1.41	9.40
Year-3	2023-24	-	0.50	0.50	5.00	10.00
Year-4	2024-25	-	0.50	0.50	5.00	10.00
Year-5	2025-26	-	0.50	0.50	5.00	10.00
Year-6	2026-27	-	0.27	0.27	2.55	9.44
Total		-	1.92	1.92	19.46	10.14

Water Requirement:

Description	Make-up Water (KLD)	Recycled Water	Total Requirement	Source
Dust suppression in mine and haul road	143	-	143	Mine Pit
Drinking & domestic	7	-	7	Bore Well
Greenbelt development	122	5	127	Mine Pit & STP
Vehicle & Equipment Washing	25	45	70	Mine Pit & ETP

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Evaporation & Other Losses	30	-	30	Mine Pit
Total	327	45	379	

Existing Land Use Pattern (Ha):

S. No.	Name of the village	Area in Acres				
		Private		Government		Total
		Raiyati	Bakasht	GMK	GMA	
1	Tikodih	30.643	0.530	7.025	0.710	38.908
2	Bishwasdih	25.700	0.230	26.012	0.000	51.942
3	Budhiadih	62.908	0.000	71.252	3.640	137.800
4	Chunjka	11.929	0.000	3.420	0.000	15.349
5	Bhorandiha	7.478	1.405	6.533	0.420	15.836
Total in acres		138.658	2.165	113.632	5.384	259.835
Sub-total in Ha.		56.114	0.876	45.986	2.177	105.153
Total in Ha.		56.990		48.163		105.153

Proposed Land Use Pattern:

S. No.	Type	Land Use (Ha)		
		Proposed	End of Life	Usage at end of mine closure
1.	Excavation Area	76.6130	--	
	Backfilled Area	--	58.311	Greenbelt/Plantation
	Excavated Void		18.302	Water Reservoir
2.	Topsoil Dump.	1.700	1.700	Greenbelt/Plantation
3.	Safety Zone	6.660	6.660	Greenbelt/Plantation
4.	Road Diversion	0.97	0.97	Road for public use
5.	Settling Pond	0.15	0.15	--

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6.	Infrastructure area	1.4800	1.4800	--
7.	Garland Drains	0.65	0.65	--
8.	Green Belt.	9.110	9.110	Greenbelt/Plantation
9.	Undisturbed	7.8200	7.8200	--
	Total	105.153	105.153	

- Overburden generated till 2nd year will be dumped in the temporary external dump in the northern part of the project boundary. Dumping in the external dump will continue till 2nd Year over an area of about 5.928 Ha. and height of the dump is about 20m. from the surface level. Concurrent backfilling will commence from 3rd year onwards.
- As per hydrogeological report Groundwater table occurs at 278 mRL (amsl) and intersection will occur for mining operations below that. It is envisaged that mining in 1st year itself will intersect the ground water table and dewatering will be required. CGWA permission for dewatering and fresh water for domestic use has been obtained vide NOC number CGWA/NOC/MIN/ORIG /2022/14517 dated 10-02-2022.
- The detailed hydrogeological report will be submitted as Annexure along with the final EIA/EMP Report and highlights of the same shall be included in the report.
- The baseline data for the project has been collected for the period March 2022 to May 2022 and the same will be used for the EIA/EMP Studies.

Statutory Clearances:

1	Lease / Land docs	:	The proposed land documents is certified by the concerned Circle Officer, Giridih Sadar vide letter 453, dated 19.04.2022
2	CO	:	The CO, Giridih Sadar vide letter no. 453 dated 19.04.2022 has certified that the Khatiyani was mutilated resulting in non legibility of some plots. Other plots are clarified as Tand / Parti Kadim / Dhan Khet etc. in Khatiyani. None of the plots are mentioned as "Jungle Jhari"
3	DC-cum- District Magistrate, Giridih		In absence of non availability of Khatiyani / Revenue record for rest of the plots, DC-cum- District Magistrate, Giridih has given a certificate vide letter no. 1522/रा०, dated 18.07.2022 that if any part of land belongs to forest land / jangal jhari in future the project proponent is bound to follow the direction of Forest (Conservation) Act,

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			1980. This certificate was based on the directives of Revenue, Registration and Land Reforms, Deptt., Govt. of Jharkhand issued vide letter no. 05/संभू० लातेहार (विविध)-181 /2018(छाया संचिका)4792/रांरांची, दिनांक 04-12-2018.
4	DFO Wild Life	:	DFO, Wildlife Hazaribag vide letter no. 915, dated 23.05.2022 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
5	DFO Forest Distance	:	DFO, Giridih East Division vide letter no. 1631 dated 23.05.2022 certified that the distance of reserved / protected forest is more than 250 m from the project site.
6	CGWA	:	Central Ground Water Authority has issued vide NOC no. : CGWA/NOC/MIN/ORIG/2022/14517 dated 10.02.2022
7	Vesting order	:	Ministry of Coal, Govt. of India has given a Vesting Order no. NA-104/13/2020-NA, dated 02.03.2021.
8	Mine Plan	:	Ministry of Mines & Minerals, Deptt. of Coal, Govt. of India has approved the mine plan vide letter no. 13016/8/99.CA, dated 02.03.2000.

SEAC, Jharkhand has suggested the ToRs in its 96th meeting held on 16th, 17th, 18th, and 19th August, 2022 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 97th meeting held on 25th & 26th August, 2022. The SEAC has recommended following project specific conditions:-

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

1. R&R plan to be submitted.
2. If tree felling is required a permission should be obtained from Competent Authority.
3. Permission from competent authority for diversion of road and electric tower is required to be included in EIA / EMP.
4. Conceptual plan with green belt to be included in EIA / EMP.
5. Hydrogeological study to be conducted and report to be included in EIA / EMP.
6. Proposal for Handling of sludge to be included in EIA / EMP.
7. Feasibility study to installed a conveyor system to be done for transportation of OB during back filling and to be included in EIA /EMP report.
8. Wildlife Conservation plan to be made as 07 Protected Forests exist within 10 KM Buffer Zone.

9. The EIA Report shall be prepared 0.5 MTPA (peak 0.75 MTPA) rated capacity in an ML / project area of 105.153 ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
10. An EIA-EMP Report would be prepared for 0.5 MTPA (peak 0.75 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 0.5 MTPA (peak 0.75 MTPA) of coal production based on approved project/Mining Plan for 0.5 MTPA (peak 0.75 MTPA). Baseline data collection can be for any season except monsoon.
11. A map specifying locations of the State, District and Project location should be provided.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.

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18. 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.
19. 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)			

20. Break-up of lease/project area as per mining operations should be provided.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.

26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. Impact of blasting, noise and vibrations should be given.
32. Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
33. 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.
34. 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.
35. Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
36. 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.

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37. Impact of change in land use from mining operations and whether the land can be restored to agriculture use post mining.
38. 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.
39. 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				

40. 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 ?.
41. 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.
42. Risk Assessment and Disaster Preparedness and Management Plan should be provided.
43. Integration of the Environmental Management Plan with measures for minimizing use of natural resources - water, land, energy, etc. should be carried out.
44. Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
45. 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.

46. 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.
47. Corporate Environment Responsibility:
- The Company must have a well laid down Environment Policy approved by the Board of Directors.
 - 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.
 - 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.
 - 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.
48. 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.
49. In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.
50. Status of any litigations/ court cases filed/pending on the project should be provided.
51. 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.
52. 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

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53. 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. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH process again with the revised documentation.

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.

54. 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.

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55. 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.

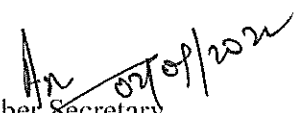
Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No : EC/SEIAA/2022-23/2621/2022/ 236

Ranchi, Date : 02.09.2022

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.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.
