State Level Environment Impact Assessment Authority, Jharkhand

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सत्यमेव जयते

Letter No : **EC/SEIAA/2021-22/2543/2021/** Ranchi, Date :

To: **M/s Shri Shyam Madhyan**
At – Sindhipara, P.O. – Pakur,
P.S. - Pakur, District – Pakur,
Jharkhand - 816107.

Sub: Prescribing of ToR to **"Khaprajola Stone Mine of Shri Shyam Madhyan at Village : Khaprajola, Tehsil : Pakur, Dist. : Pakur, Jharkhand (3.31 Ha)" (Proposal No. : SIA/JH/MIN/69881/2021)- regarding.**

Ref: Your application no.- Nil, dated – 18.02.2022.

Sir,

It is in reference to the project to **"Khaprajola Stone Mine of Shri Shyam Madhyan at Village : Khaprajola, Tehsil : Pakur, Dist. : Pakur, Jharkhand (3.31 Ha)"** along with the application in the prescribed format (Form-1) and a copy of the pre-feasibility report and approved mine plan to prescribe the ToRs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

This is a new project which has been taken for appraisal on 24.02.2022.

Project Category : B1 – Application for TOR

EC Application for : Boulder Stone : 50,000 Cu.M. / year i.e. 1,35,000 TPA
DG Set : 20 KVA

Project & Location Details :

Sl	Parameter		Details
1	Project Name	:	Khaprajola Stone Mine Project Type – Stone Mine Increase in Production From 36,439 Tons/ Year to 1,35,000 tons / Year up to 21.05.2024 (remaining period of lease)
2	Lessee:	:	Shri Shyam Madhyan
3	Lease Address	:	Mouza - Khaprajola, P.S.- Pakur, No. – 92, District – Pakur,

			Jharkhand	
4	Lease Area	:	Ha: 3.31 ha	Acres: 8.19 Acres
5	Type of Land	:	Non Forest – Rayati Land	
6	Project Cost	:	105.40 Lakhs	
7	EMP Budget	:	Capital: 21.42 Lakhs	Recurring: 2.24 Lakhs
8	CSR / CER Budget	:	2.68 Lakhs	
9	New or Expansion	:	New Project	
10	Mineable Reserves	:	Cu.M.: 2,23,560 Cu. M.	Tonnes: 6,03,612Tonnes
11	Mine Life	:	6 years	
12	Man power	:	36	
13	Water Requirement	:	22.66 KLD (Drinking:0.54 KLD, Dust Suppression:8 KLD, Plantation:14.12 KLD	
14	Water Source	:	• Water will be Sourced from Pond at a distance of 200 m from Abandoned Mine through Water Tanker for Dust Suppression and Plantation. • · Water will be sourced from Bore Well through hired tankers from the nearby settlement (Khaprajola) which is 0.40 km (SW) from the Mine lease area.	
15	DG Set / power	:	20 KVA	
16	Crusher	:	Na.	
17	Nearest Water Body	:	Ganga River 15.00 KM	
18	Nearest Habitation	:	Khaprajola Village: 0.40 KM; Pakur 5.00 KM	
19	Nearest Rail Station	:	Pakur Railway station – 4.5 km - NNE	
20	Nearest Air Port	:	Kazi Nazrul Islam Airport – 125 km - SW	
21	Nearest Forest	:	Protected Forest, Mohanpur - 3.70 Km	
22	Road & Highways	:	Malpahari road – 1 Km, NH -114 A-3.60 Km North	

CO-ORDINATES :

Geo-Coordinates		
Corner Point	**Latitude**	**Longitude**
P1	24° 35' 57.38"N	87° 50' 31.02"E
P2	24° 35' 57.87"N	87° 50' 29.45"E
P3	24° 35' 58.85"N	87° 50' 29.60"E
P4	24° 36' 01.45"N	87° 50' 30.78"E
P5	24° 36' 01.92"N	87° 50' 29.78"E
P6	24° 36' 00.96"N	87° 50' 29.13"E
P7	24° 35' 58.16"N	87° 50' 28.35"E
P8	24° 35' 58.57"N	87° 50' 26.60"E
P9	24° 35' 59.00"N	87° 50' 26.48"E

P10	24° 36' 02.84"N	87° 50' 27.80"E
P11	24° 36' 03.18"N	87° 50' 26.91"E
P12	24° 36' 03.06"N	87° 50' 25.60"E
P13	24° 36' 02.27"N	87° 50' 24.86"E
P14	24° 36' 01.91"N	87° 50' 23.57"E
P15	24° 36' 02.24"N	87° 50' 22.63"E
P16	24° 36' 02.53"N	87° 50' 22.68"E
P17	24° 36' 02.88"N	87° 50' 24.16"E
P18	24° 36' 03.74"N	87° 50' 25.19"E
P19	24° 36' 03.64"N	87° 50' 25.87"E
P20	24° 36' 04.13"N	87° 50' 27.31"E
P21	24° 36' 04.37"N	87° 50' 27.21"E
P22	24° 36' 04.70"N	87° 50' 27.52"E
P23	24° 36' 04.62"N	87° 50' 28.32"E
P24	24° 36' 04.37"N	87° 50' 28.78"E
P25	24° 36' 04.01"N	87° 50' 28.90"E
P26	24° 36' 03.76"N	87° 50' 30.33"E
P27	24° 36' 04.08"N	87° 50' 32.04"E
P28	24° 36' 03.79"N	87° 50' 32.16"E
P29	24° 36' 03.01"N	87° 50' 35.18"E
P30	24° 36' 00.13"N	87° 50' 34.03"E
P31	24° 36' 00.49"N	87° 50' 32.58"E
P32	24° 35' 59.10"N	87° 50' 31.88"E

LAND DETAILS

Mouza	Khata No.	Plot No.
Khaprajola	4	626
	6	622, 623, 624, 625
	10	627, 628, 629
	16	631
	17	634, 635, 636, 637
	20	633
	21	632

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Lease deed 22.05.2014 to 21.05.2024.
2	CO	:	The CO, Pakur vide letter no. 739, dated 07.08.2021 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.

3	DMO	:	DMO, Pakur vide memo no. 912/M, dated 02.08.2014 certified that 05 lease area exists within 500 m radius from proposed project site and total area is 9.21 ha.
4	DFO Wild Life	:	DFO. Wildlife Hazaribagh vide letter no. 991 , dated 14.06.2021 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. Pakur Division vide letter no. 800, dated 17.06.2014 certified that the distance of forest is more than 500 metre from proposed project site.
6	DSR	:	This project site has mentioned in District Survey Report (DSR) of Pakur district.
7	Gram Sabha	:	On 12.08.2014
8	Mine Plan Approval	:	Memo No. 2132 dated 27.09.2018

Working Details

1	Mining Method	:	Semi Mechanised. Wagon, Drilling & Blasting to be used	
2	Quarry Area	:	5 years – 2.23 Ha	End of Mine – 2.34 Ha
3	Waste Generation	:	5 years– 7.283 Cum.	Life of Mine – 7,283 Cu.M
4	Stripping Ratio	:	1:0.02	
5	Working Days	:	300	
6	Benches: size & No	:	6 m x 6 m, Bench No.- 1 to 7	
7	Elevation of Mine	:	Elevation – 96 AMSL	
8	Ground Level Elevation		96 m In AMSL	
9	Ultimate Working Depth	:	18 mRL (71 m AMSL)	
10	Water Table	:	63 m AMSL & also 33 m bgl	
11	Topography of Mine	:	Undulating Terrain	
12	Explosive Requirement	:	18.9 Tons/year	
13	Diesel/Fuel requirement	:	688 KL/year (206.40 Litres/day)	

Production Details

Year	Production of Stone		Over Burden (OB)	Bench RL in meters
	Cubic meters	Tons	Cum.	
6th Year	50000	135000	4855	48 to 42 m (Stone) 42 to 36 m (Stone) 48 to 42 m (O.B.)
7th Year	50000	135000	0	36 to 30 m (Stone) 30 to 24 m (Stone)
8th Year	50000	135000	0	30 to 24 m (Stone) 24 to 18 m (Stone)
9th Year	8333	22499	0	24 to 18 m (Stone)
Total	1,58,333	4,27,499	4855	Depth – 30 m

Land Use

Existing Land Use pattern

Category	Area in Hectares
Quarry including road	1.39
Total area in use	**1.39**
Balance area unused	1.92
Total Leasehold area	**3.31**

Proposed Land Use for Current Plan Period

Category	Area in Hectares
Quarry including road	2.230
Plantation in Safety Barrier	0.970
Dump	0.070
Parapet Wall	0.005
Garland Drain	0.005
Total area in use	**3.280**
Total Leasehold area	**3.310**

Land Use pattern at the Conceptual Stage i.e. end of mine

Category	Area in Hectares
Quarry including backfilling & reservoir	2.34 (Water Body) 4855 Cum. of O.B. will be

	used first for backfilling and after reducing the depth it will be converted into water body
Green Belt in Safety Zone	0.97 (Plantation)
Total area in use	3.31
Balance area unused	0
Total Leasehold area	**3.31**

ENVIRONMENT MANAGEMENT

Green Belt Development

SL	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.97 ha	2424 trees @ 2500 trees per ha
2	Other Reclaimed Area	:	0.10 Ha.	250 trees @ 2500 trees per Ha.
3	Haul /Approach Road	:	1 KM	400 trees on both sides – 5 m distance

Solid Waste Management

- A total of 4,855 Cum of wastes (Over Burden) will be generated from entire Khaprajola Stone Mine up to conceptual stage. Year-wise waste generation during the planned period is given below:

Generation of Waste during Planned Period

Year	Waste Generation, In Cum
6th Year	4,855
7th Year	0
8th Year	0
9th Year	0
Total	**4,855**

Disposal of Waste from the Quarry

- Over burden will be dumped in the waste dump within the mining lease area in 0.07 Ha. waste dump area inside the lease. OB will be utilized for internal mine road construction & berm along the approach road construction & maintenance.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppression and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided, discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha' road shall be done.
- Water sprinkling at loading area shall be done.
- Use of personal protective equipment like dust mask etc shall be put in practice.
- Ambient air pollution monitoring shall be carried out every six months.

Undertaking submitted affirming:

a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
b. The District survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
d. The Boundary Pillars of the proposed mine lease area will be maintained properly.

e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
i. If any tree felling is required permission should be taken from competent authority.

Baseline data generation has been done period October, 2021 to December, 2021.

In line with above mentioned queries, the Project Proponent has submitted the above compliance.

SEAC, Jharkhand has suggested the ToRs in its 93rd meeting dated 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th and 27th February, 2022 in the light of Hon'ble NGT, Principal Bench, New Delhi order dated 13.09.18 and MoEF & CC OM dated 12.12.18 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has approved the ToRs in its 94th meeting held on 13th, 14th & 15th April, 2022.

The committee also recommends the following project specific conditions:

- Gabion Plantation work in the safety zone (7.5 m width around the proposed lease boundary) and on either side of approach road in two rows with the spacing of 3x3 m with suitable species such as timber & fruit bearing etc. will be done in first year of operation. Maintenance work such as h/w, mortality replacement, protection and watering shall be undertaken for the life of mine as per norms and schedule issued by PCCF, Development, Department of Forest, Environment & Climate Change, Govt. of Jharkhand. Records of same to be maintained and will be submitted with compliance report.

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

1. **This TOR letter is subject to Hon'ble NGT order dated 13.09.2018 and MoEF & CC OM dated : 12.12.2018.**
   a. Providing for EIA, EMP and therefore public consultation for all areas from 5 to 25 Ha falling under category B-2 at par with category B-1 by SEIAA/SEAC as well as for cluster situation wherever it is not provided:
   b. Form-1M be made More comprehensive for areas of 0 to 5 Ha by dispensing with the requirement for public consultation to be evaluated by SEAC for recommendation of grant of EC by SEIAA instead of DEIAA/DEAC;
   c. If a cluster or an individual lease size exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior Environmental Clearance.

d. EIA and /or EMP be prepared for the entire cluster in terms of recommendations 5 (supra) of the guidelines for the purpose of recommendations 6, 7 and 8 thereof;
e. Revise the procedure to also incorporate procedure with respect to annual rate of replenishment and time frame for replenishment after mining closure in an area:
f. The MoEF & CC to prepare guidelines for calculation of the cost of restitution of damage caused to mined- out areas along with the Net present value of Ecological services forgone because of illegal or unscientific mining.

2. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.

3. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.

4. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.

5. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

6. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.

7. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.

8. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The 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, may also be detailed in the EIA Report.

9. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.

10. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

11. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

12. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

13. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

14. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.

15. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.

16. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

17. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

18. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.

19. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

20. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

21. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).

22. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

23. One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

24. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

25. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

26. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

28. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.

29. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

30. Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.

31. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.

32. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

33. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

34. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.

35. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.

36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

38. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

40. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

42. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

43. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.

44. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

45. Besides the above, the below mentioned general points are also to be followed :-

a. Executive Summary of the EIA/EMP Report.

b. All documents to 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. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF & CC / NABL accredited laboratories. All the original analysis / testing reports should be available during appraisal of the Project.

e. Where the documents provided are in a language other than English, an English translation should be provided.

f. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

g. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF & CC 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 be followed.

h. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF & CC 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 again with the revised documentation

i. As per the circular no. J-11011/618/2010-IA.II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

j. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) 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 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/2021-22/2543/2021/** 86 Dated: 16/04/2022

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.

16/04/2022

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand