STATE EXPERT APPRAISAL COMMITTEE MINUTES OF 329th MEETING **23 October 2018**

The 329th meeting of the State Expert Appraisal Committee (SEAC) was held on 23rd October, 2018 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Shri Prasant Srivastava, Member.
4. Dr. R. Maheshwari, Member.
5. Dr. Jai Prakash Shukla, Member.
6. Dr. Sonal Mehta, Member.

The Chairman welcomed all the members of the Committee and thereafter agenda items were taken up for deliberations.

1. Case No. - 5542/2017 M/s Hostech Eco Management Pvt. Ltd, 10, Yahvant Niwas Road, Indore, Distt. – Indore (M.P.). Prior Environment Clearance for Establishing Common Biomedical Waste Treatment Facility at Kaliyadeh Village, Ghatiya Tehsil, Distt. - Ujjain, (M.P.) Cat. - 7(da) Common Biomedical Waste Treatment, Storage and Disposal Facilities (TSDFs). FoR – EIA Presentation.Env. Con. – Visiontek Consultancy Services Pvt. Ltd., Bhubaneshwar.

The proposed project is for setting up of common bio-medical waste treatment facility and project falls under Category "B" Projects of activity 7(da) as per EIA Notification dated 14th September, 2006 and its subsequent amendments dated 17th April 2015, under Bio- Medical Waste Treatment Facilities. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

The case was presented by the PP and their consultant in 289th SEAC Meeting dated 28/04/17, Wherein PP submitted that the proposed unit will be established on an existing industrial manufacturing unit which is closed since long and they have also obtained CTE from the M. P. Pollution Control Board. PP further submitted that data collection has been started from December, 2016. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TORs:

a. DFO certificate in the format prescribed by MP, SEIAA should be submitted with the EIA report regarding distances from National Parks/ Sanctuaries and Forest area.
b. Since the proposed unit will be established on an existing chemical plant thus in EIA report PP should provide the details of such existing facilities which will be used and which will be dismantled.
c. PP should also provide the details of any waste material stored in the existing plant premises and their proposed disposal.

d. A natural drain and kshipra river is in close proximity of the site thus their protection plan in case of accidental discharge should be prepared and discussed in the EIA report.
e. In case PP intends to use ground water, permission of CGWB should be obtained.
f. Facility should be developed in accordance with the provisions made in the Bio-Medical Waste Management Rules, 2016 published by GOI and Guidelines published by CPCB for Common Bio-medical Waste Treatment Facilities.
g. Justify in EIA report, how unit will remain zero discharge.
h. Disposal plan of autoclaved material should be discussed in the EIA report.
i. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

PP has submitted the EIA report vide letter dated 19/09/2018 which was forwarded through SEIAA vide letter no.-1401 dated 26/09/2018. The EIA was presented by the PP and their consultant wherein after discussion PP were asked to submit following information:

1. Road map of proposed transportation route.
2. Committeemen that no dismantling shall be carried-out in existing structure and zero liquid discharge shall be maintained.
3. Proposed for fire-fighting arrangement.
4. Revised EMP and CSR as suggested by the committee during presentation.
5. Revised Plantation species, explore the possibility for planting tall, long trees which will act as wind breaker and odor controller as suggested by the committee during presentation.
6. Proposal for the peripheral drainage system & occupational health survey and its cost shall be added in the in EMP.

PP has submitted the response of above quarries vide letter dated 23.10.2018 which was placed before the committee in the next meeting and the same was found satisfactory. After discussion committee observed that the EMP and other submissions including query reply made by PP were found adequate and satisfactory and thus the case is recommended for grant of prior EC for Establishing Common Biomedical Waste Treatment Facility at Kaliyadeh Village, Ghatiya Tehsil, Distt. - Ujjain, (M.P.) Cat. - 7(da) Common Biomedical Waste Treatment, Storage and Disposal Facilities (TSDFs).

1. The EC shall be valid for establishing Common Bio Medical Waste Treatment and Disposal Facility at Kaliyadeh Village, Ghatiya Tehsil, Distt. - Ujjain, (M.P.) with following treatment capacity –

Rotary Kiln Incinerator	-	2.4 TPD (one number)
Autoclave	-	0.5 TPD (one number)
Shredder	-	0.50 Ton (one number)

(A) PRE-CONSTRUCTION PHASE

2. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas. The entire area should be covered with minimum 03 meters MS sheets and due care should be taken for noise and vibration control during demolition work.
3. For dust suppression, regular sprinkling of water should be undertaken.
4. PP will obtain other necessary clearances/NOC from respective authorities.
5. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
6. Take all necessary steps to ensure that the bio-medical waste collected from the occupier is transported, handled, stored, treated and disposed of without any adverse effect to the human health and the environment, in accordance with the Bio-Medical Waste Management Rules, 2016 and guidelines issued by the Central Pollution Control Board from time to time. PP shall ensure that bio medical waste shall be treated completely within 48 hrs from the time of collection. All conditions and guideline lay down by CPCB and BMW Act, 2016 shall be complied.

(B) CONSTRUCTION / OPERATION PHASE

7. Ensure timely collection of bio-medical waste from the occupier through dedicated vehicles as prescribed under the rules with bar coding and global positioning system for handling of bio- medical waste.
8. Inform the prescribed authority immediately regarding the occupiers which are not handing over the segregated bio-medical waste in accordance with the rules.
9. Provide training for all its workers involved in handling of bio-medical waste at the time of induction and at least once a year thereafter.
10. Undertake appropriate medical examination at the time of induction and at least once in a year and immunize all its workers involved in handling of bio-medical waste for protection against diseases, including Hepatitis B and Tetanus, that are likely to be transmitted while handling bio-medical waste and maintain the records for the same.
11. Shall display details of authorization, treatment, and annual report etc on its web-site.
12. PPE's such as helmet, ear muffs etc should be provide to the construction workers.
13. Fire extinguishers should be provided on site during construction period.
14. All internal roads will be concreted / asphalted to reduce dust emissions.
15. All vehicles carrying raw material should be covered with tarpaulin and unloading/loading activities should be stopped during windy period. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.

Bar Code System should be developed by the facility operator as per the guidelines issued by the Central Pollution Control Board for ensuring compliance to the BMWM Rules, 2016.

16. Waste construction material should be recycled as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
17. Peripheral plantation inclusive of avenue and aromatic plantation at all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed the project plan to develop green belt in 3127 m^2 area and 600 plants are proposed to be planted along the periphery of the project and inside the project.
18. PP should explore the possibility of providing solar street light and LED should be preffered over CFL/tube lights.
19. Waste oil generated from the DG sets, ash and ETP sluge should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
20. The total water requirement for the project is 11.7 KLD.
21. Land use breakup details as proposed by PP for this facility are as follows:

Land use Break-Up for proposed unit,	**Total Area 5540 Sq. mt.**
Particulars	**Area in sq.meter**
Security Hut	12
Workers Room	24
Parking	80
Admin & Storage	256
Incinerator Area	360
ETP	36
Green area	3127
Open area	1645

22. As proposed, the effluent generated from industrial activities in the proposed plant will be treated in ETP (Capacity 12.0 KLD and re-circulated in venturi scrubber. Waste water generated from domestic use will be sent to the packaged STP and the treated water will be used for flushing and dust suppression. No effluent from the facility shall be discharged outside the premises and Zero discharge shall be maintained. PP should also install Internet

Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.

23. The height of the stack shall be not less than 30 mtrs. Only low Sulphur fuel like Light Diesel Oil or Low Sulphur Heavy Stock or Diesel, Compressed Natural Gas, Liquefied Natural Gas or Liquefied Petroleum Gas shall be used as fuel in the incinerator. On line continous monitoring system shall also be installed to monitor the stack emission and data connectivity must be provided to the MPPCB's server for remote operations.
24. Monitoring of the stack gaseous emissions (under optimum capacity of the incinerator) will be done once in three months through a laboratory approved under the EPA, 1986 /NABL and record of such analysis results shall be maintained and submitted to the prescribed authority. In case of dioxins and furans, monitoring will be done once in a year.
25. Ventury scrubber with mist eliminator, Bag Filter, APCs and dust collector shall be provided as air pollution control equipment.
26. Combustion gas analyzer to measure CO_2, CO and O_2 should be installed.
27. Spraying of "Ecosorb" should be performed on regular intervals to avoid any odor nuisance.
28. The PP should comply with the provisions made in Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016.
29. Dedicated parking facility for unloading of materials/wastes shall be provided in the facility premises. PP shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
30. PP shall ensure that 02-03 additional vehicle shall be available all the time in addition to the required number of vehicle for collection and transportation of bio medical waste.
31. No hazardous waste should be disposed off in this facility.
32. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
33. In case of power failure, stand by D.G. Set/s having power generation capacity equivalent to the requirement of power to run the facility shall be installed, so that the facility shall always be operated round the clock even in case of power failure. The overall noise level in and around the facility area and D.G. Set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
34. All recommendations and pollution mitigative measures proposed in the EMP shall be binding for the project authorities.
35. Pucca flooring / impervious layer shall be provided in the work areas, chemical/waste oil storage areas and chemical handling areas to minimize soil contamination.
36. Good housekeeping shall be maintained within the facility premises. All pipes, valves and drains shall be leak proof. Leakages from the pipes, pumps, shall be minimal and if occurs,

shall be arrested promptly. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal.

37. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.
38. After ensuring treatment by autoclaving or microwaving followed by shredding, the recyclables from the treated bio-medical wastes such as plastics and glass shall be given to such recyclers having valid authorization or registration from the respective prescribed authority.
39. The Occupier or Operator of facility shall maintain a record of recyclable wastes referred to in sub-rule (9) of Bio-Medical Waste Management Rules, 2016 which are auctioned or sold and the same shall be submitted to the prescribed authority as part of its annual report. The record shall be open for inspection by the prescribed authorities.
40. The handling and disposal of all the mercury waste and lead waste shall be in accordance with the respective rules and regulations.
41. The facility operator shall adhere to the "STANDARDS FOR TREATMENT AND DISPOSAL OF BIO-MEDICALWASTE BY INCINERATION AND PLASMA PYROLYSIS OR GASIFICATION," as per Schedule II of the Bio-medical Waste Management Rules, 2016.
42. Report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto (including nil report) in Form I to the prescribed authority and also along with the annual report.
43. Maintain a log book for each of its treatment equipment according to weight of batch; categories of waste treated; time, date and duration of treatment cycle and total hours of operation.
44. Allow occupier, who are giving waste for treatment to the operator, to see whether the treatment is carried out as per the rules.
45. Supply non-chlorinated plastic colored bags to the various occupiers, if required.
46. Common bio-medical waste treatment facility shall ensure collection of biomedical waste on holidays also.
47. Maintain all record for operation of incineration and other activities such as autoclaving & shredding etc for a period of five years.

(C) <u>ENTIRE LIFE OF THE PROJECT</u>

48. PP has proposed Rs. 21.50 lacks for environmental monitoring and environmental management inclusive of green belt development and Rs. 17.10 lacks/year for recurring expenses in the proposed EMP of this project.
49. Under CER activity, Rs. 9.25 lacs will be disbursed in the five years for in different activities proposed in the CER and should be implemented through respective committees.

50. The environmental policy with Environmental Management Cell as per MoEF guideline will be prepared by PP and the with suitably qualified staff for implementation of the stipulated environmental safeguards and for monitoring functions shall be setup under the control of the Chief Executive of the company.
51. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
52. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
53. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
54. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

2. <u>Case No.-5462/2016 Shri Prasenjit Singh, M/s Piprahat Linestone Mine, , Vill. Piprahat, Teh. Maihar, Dist. Satna, MP. Prior Environment Clearance for Limestone Mines in an area of 8.068 ha. (1,67,200 TPA) (Khasra no. 48, 177, 178, 178, 180, 181) at Village-Piprahat, Tehsil - Maihar, Dist. Satna (MP).</u>

This is case of Lime Stone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 48, 177, 178, 178, 180, 181) at Village-Piprahat, Tehsil - Maihar, Dist. Satna (MP). 8.068 ha. The project requires prior EC before commencement of any activity at site.

Project proponent and his consultant presented the salient features of the project, PFR, baseline data and the proposed TOR before the committee in the 63rd SEAC-II meeting dated 24/12/2016. The presentation and the submissions made by the PP reveals following:

It was submitted that this mine is operational with Environmental cleanse and consent to operate from MPPCB. The proponent wish to capacity expansion from 1,500 to 1,67,200 MTonnes per annum. Accordingly the mine plan has been approved.

Environment setting

Particulars	**Details**
Village	Piprahat
Tehsil	Maihar

District	Satna
State	MP
Latitude Longitude	24^0 08'06.9" to 24^0 08'19.9" North 80^o 46'18.7" to 80^o 46'29.8"East
General Ground Level	399 m MSL
Elevation range	Highest – 400m MSL Lowest – 398m MSL
Nearest Village	Piprahat -0.50 km – S
Nearest National/state Highway	Jabalpur-Katni-Maihar Road (NH-7) – 8.85 km - NNW Barhi-Sarlanagar Road-(SH-11)- 4.40 km-E
Nearest Railway Station	Bhadanpur Railway Station – 10.0 Km
Nearest Airstrip	Satna - 45.0 km
Nearest Tourist Place within 10km radius.	None within 10 km radius
Archaeological Important Place	None within 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10 km radius
Reserved / Protected Forest (Boundary to boundary distance)	None with in 10 km radius
Hills/valley within 10 km radius	Kaymore hill - 1.10 km - N
Nearest major city with 100000 population within 10km radius	None in 10 km radius
Nearest Town / City within 10 km radius	None within 10km radius
Nearest River	Tamas (Tons) River - 5.30 km – NW
Nearest Nalla/ pond	Kalindari N -2.40 km - E Chakdahi Nalla - 1.25km - SW
Industry with in 10 km radius	Maihar Cement Plant -7.0 km

It was reported by the PP that:

- The lease area of 8.068 hectares was originally granted in favour of Smt Shusila Singh. After that lease has been transfer to Shri Prasenjit Singh to balance period upto 30.03.2023
- 4 other lease area are located within 500m radius,
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur

- The PP has already been obtained environment clearance from SEIAA for capacity of 1500MTPA. Mine is running with valid consent to operate with production capacity of 1500Mmpa.

Salient feature of the lease area

Particulars	**Details**
Type of Mine	Open Cast
Mining Lease Area	8.068 ha
Mineable Area	7.1567 ha
Existing Pits & Quarries	1.3115 ha
Existing Dumps	0.5557ha
Plantation	0.20 ha
Existing water body	0.25 ha
Existing backfilled area	Nil
Mineable Reserve	22,13,017 MT
Method of mining	OTFM
Ultimate Depth of Mining	28 m bgl (370 mRL)
Ultimate Pit Slope	45^{o}
Expected Life of Mines	14 years
Stripping Ratio	1:0.45
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	7.1567 ha
Area to be backfilled by conceptual period	1.48 ha
Area to be covered under plantation by conceptual period	2.9325 ha
Area to be covered under water reservoir	4.9942 ha
Elevation	400-398 mRL
Ground water table	
Pre monsoon	362 mRL (38 bgl)
Post monsoon	368 mRL (32 bgl)
Production per day in MT	557 MT
Dumper required per day (24MT)	23 no.

GEOLOGY OF THE MINE

Geology and deposit appraisal	
Local geology	The lease area has ore zone having Limestone. The Limestone beds are gentle to moderately 30^0 N dipping towards the north and belong to the Semri group formation. The major litho unit is Limestone. The dipping is 30^0 due North; the trend of rocks is ENE-WSW to E-W strike.
Lithology	0.0 – 5.0 – Avg. Lateritic soil 5.0 – 30 m – avg. limestone
Average thickness	24m
Lease area	8.068 ha
Mineable area	7.1567 ha
AMSL	400-398 mRL
Height of bench, width and no of bench	Development- 3 no. avg. Height of 1.5 m& 2.0m(lateritic soil) Production – 2 no. – 6m height & 6 mt width. (Limestone)
Width of haulage road	11 m wide with gradient of 1:16
Mineral reject	20%

Mining Method

- Presently Mining activity is being operated for capacity of 1500 Mt per year.
- Opencast OTFM mining is proposed for capacity expansion.
- Lump of Limestone will be transported from pit bottom to surface by dumper
- Presently area has been developed with one pit (1.3115ha) up to 385 m AMSL.
- During the proposal period; three development bench and two production benches are proposed with height of 3-6m and width will be 6 m respectively up to 399 m to 382 m AMSL.
- During the conceptual period 11 m wide haulage roads will be maintained and developed at required places with gradient of 1:16.
- At the End of SOM period, about 3.3045 ha area will be excavated up to 382m AMSL.

- At the end of conceptual period, about 7.1567 ha area will be excavated up to 370 m AMSL and out of this about 1.48 ha area will be backfilled using mine waste and rest of mined out area i.e. 4.9942 ha are will be converted as water reservoir with proper fencing.
- At the end of conceptual period about 2.9325 ha area will be afforested with 2452no of trees.

Existing and proposed land use plan

Items	Existing	Conceptual Period
Total lease area	8.068 ha	
Ultimate depth of mining	385 m MSL	370 m MSL
Ultimate pit slope	45 degree	45 degree
Area under dumps	0.5557 ha	Nil
Area under pits	1.3115 ha	7.1567 ha
Area to be reclaimed	Nil	1.48 ha
Infrastructure & Road	0.194 ha	0.196 ha
Mineral storage	Nil	Nil
Plantation	0.2 ha	2.9325ha
Water body	0.25ha	4.9942 ha

The case was presented by the PP and their consultant in 63rd SEAC-II meeting dated 24/12/2016.wherein it was observed that being it's a case of major mineral committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
3. Transportation plan & traffic management plan should be discussed in the EIA report.
4. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
6. Compliance of earlier EC conditions duly authenticated by MoEF&CC.
7. Year wise details of minerals already excavated till date should be submitted with EIA report.
8. PP has to submit the lease validity extension certificate along with EIA report. (If applicable)
9. Atleast 07 stations should be selected for monitoring and results should be discussed in the EIA report.

PP has submitted the EIA report vide letter dated 22/09/2018 which was forwarded through SEIAA vide letter no.-1418 dated 27/09/2018.

The case was scheduled for the EIA presentation wherein neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and in case the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

3. **Case No. -5177/16 Shri Sharda Prasad Jaiswal, Kawasji Ward, Near Vivekanand Chowk, Post-ACC, District-Katni (MP)-483504. Prior Environment Clearance for Mohla Laterite, Bauxite & Fireclay Mine in an area of 5.901 ha. (Expansion in production capacity from 10,000 to 1,62,237 TPA) at Khasra No.-01, Village-Mohla, Tehsil-Sihora, District-Jabalpur (MP).Env. Consultant – Creative Enviro Services, Bhopal.**

This is case of Mohla Laterite, Bauxite & Fireclay Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-01, Village-Mohla, Tehsil-Sihora, District-Jabalpur (MP) 5.901 ha. The project requires prior EC before commencement of any activity at site.

Environment setting

Particulars	**Details**
Location	Villae-Mohla, Tehsil- Sihora, Dist Jabalpur (MP)
Latitude Longitude	23^{0} ’34’32.8 ” North 80^{o} 09’06.0” East
General Ground Level	426-403 mRL
Nearest Village	Chaudhi - 1.0km - SW
Nearest National/state Highway	NH-7 –3km - S SH –51 -2.25 km - WSW
Nearest Railway Station	Dundi – 6.75 km
Nearest Airport	Jabalpur – 50 km
Nearest Tourist Place within 10km radius.	None within 10km radius
Archaeological Important Place within 10km radius.	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None within 10km radius
Nearest hill range with in 10 km radius	None within 10km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Dhanwahi RF – 8.5 km- SE Amoch RF - 3.0 km – EEN Hargarh RF – 9.5 km –S

	Jujhawal RF – 6.5 km - NNE
Nearest major city with 100000 population within 10km radius	None within 10km radius
Nearest Town / City within 10km radius	None within 10km radius
Nearest River within 10 km radius / Nalla/ pond	None within 10km radius
Nearest Nalla/Pond	Local Nalla – 0.5 km -NW Pond – 1.25 km- SW Canal – 2.75 km –S
Mines in 500 mt radius	None

Sailent feature of the lease area

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	5.901 ha
Mineable Area	2.6879 ha
Existing Pits & Quarries	0.9492 ha
Existing Dumps	0.20ha
Plantation	0.50ha
Recoverable / Mineable Reserve	527528 T
Method of mining	Semi Mechanized
Ultimate Depth of Mining	398 mRL
Ultimate Pit Slope	45o
Expected Life of Mines	5.0 years
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	1.1286 ha
Area covered under pit in conceptual period	2.6879 ha
Area to be reclaimed by conceptual period	0.0459 ha
Area to be covered under plantation by conceptual period	2.67 ha
Area to be covered under water reservoir	2.6420 ha
Elevation	Highest- 426 m RL Lowest - 403 m RL
Ground water table	
Monsoon period	32 m bgl
Dry month	35 mbgl
Production per day in t and dumper per day (24T)	541 T & 23dumper

Existing and proposed land use plan

Items	Existing	Conceptual Period
Total lease area	**5.901 ha**	

Ultimate depth of mining	402 mRL	Upto 398 mRL
Ultimate pit slope	45 degree	45 degree
Area under dumps	0.20 ha	1.1286 ha
Area fully mined out	0.0459 ha	2.6879 ha
Area under pits	0.9492 ha	2.6879 ha
Area to be reclaimed by Back Filling	Nil	0.0459 ha
Infrastructure & Road	0.0887 ha	0.0565 ha
Area under mineral/ mineral reject stack	0.6218 ha	Nil
Plantation	0.50ha	2.67ha
Area rehabilitated by Water Harvesting	0.25 ha	2.6420 ha

The case was presented by the PP and his Consultant in 34th SEAC meeting dated 25/06/2016 wherein it was recorded that: It's being a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Inventory of operating / proposed mines within 2 Km around the said mine.
2. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
3. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power considering all the existing mines within 500 meters radius.
4. Any alternate route avoiding the nearby habitations.
5. Disposal plan of excess mine water accumulated during rainy season be discussed in the EIA.
6. Top soil management plan be discussed in the EIA.
7. The AAQ data collected for adjoining mine can be used in EIA but the data should not be more 2 years old.

PP has submitted the EIA report vide letter dated 22/09/2018 which was forwarded through SEIAA vide letter no.-1416 dated 27/09/2018.

The EIA was presented by the PP and their consultant and during presentation following details were provided by the PP:

Method of mining

- Presently opencast method of mining (Semi-mechinsed) is already in operation.
- Operation of mining is being carried out by OTFM and deployment of heavy earth moving machineries for excavation, loading & transportation on single shift basis in the Bauxite, Fireclay and laterite deposit at the north east & South central part of the lease.

- Lease area divided in two zones i.e. zone-1 Laterite & Fireclay and zone-2 is Bauxite & Fireclay.
- Two large pits and one trail pit has been observed in lease area which is covered by 1.8557ha area.
- 12 production benches of 3m height will be developed in laterite and Bauxite/Fire clay zone respectively to achieve 162237T per annum production.
- Haulage roads 6-7m wide will be developed from east to west of the proposal and at required places, it will laid at maximum 1: 1 6 gradient from surface stack yard MSL of 402m to pit bottom at 385m MSL with in by roads to faces of individual benches.
- During the past mining period two large pits are developed upto 394m AMSL.

Plantation details

Time Bound Plantation Programme		
Year	Area (in sq mt)	Number of Plants
1st	5000+2750m (road)	1000+1100
2nd	5000+2750m (road)	1000+1100
3rd	5000	1000
4th	5000	1000
5th	5000	1080
Total	25000sq mt + 2750m road	5080 +2200

SOCIO-ECONOMIC ENVIRONMENT:

SN	Plan	Activity	Place of activity	Budgetary provisions (Rs in lakh)	
				Capital	Recurring
1.	Promotion of girls education	To provide scholarship to four poor girls to higher education	Talakhera, Mohla, Chaudhi Kachhargaon	-	1.20 (@0.30 per girls)
2	To provide need base infrastructure facility	At school of Talakhera, Mohla, Chaudhi Kachhargaon	12 months	2.00	1.00
3	Free medical camp	Medical Checkup facility, first aid and other welfare activities for nearby villagers	Quarterly	-	2.00
4	Promotional programme for Organic farming at nearby villages	Motivation and financial assistance to the framers of nearby villages for organic forming	Yearly	1.00	1.00
5	To provide drinking	Hand pump provide for	Yearly	6.00	1.00

	water facility	drinking water at Talakhera, Mohla, Chaudhi Kachhargaon (Two hand pump each village)			
6	To provide financial support to gram panchyat for need base facility		Yearly	-	3.00
7.	To provide playground at village Mohla	Developed the play ground after providing land for gram Panchayat	Yearly	-	0.50
			Total	**9.00**	**9.70**

ENVIRONMENTAL MONITORING & MANAGEMENT:

Total Cost (EMP + CSR+ plantation + Monitoring)		
Particular	**Amount (Lakh) per annum – Capital**	**Amount in Rs (Lakh) per annum – Recurring**
Dust Suppression through tanker (Fogger type) over Transport Road 2750mt road * 7.50m (15Rs/km) Approx running per day 22km(04 trip per day) @300 day = 6600 km per annum	20.00	0.99 Say 1.00
Dust Suppression through tanker over haul Road 200mt road * 6.0m (20Rs/km) Approx running per day 8.0km(3.2 trip per day) @300 day = 960 km per annum	-	0.192 Say 0.20
Sub Total	**20.00**	**1.20**
Plantation (Capital cost) Along the transport Road	5.50	-
Maintenance of Plantation (Along the village Road & lease area) @ Rs 45/- per plant	-	3.27
Plantation (Capital cost) within lease area	7.11	-
Sub Total	**12.61**	**3.27**
Roads repair and maintenance (2.750kmx 7.50mW @2.0 lakh per Km)	-	5.50
Construction of WBM road (2.75km @ 7.5mW @9.0 lakh per Km with 8.5m winding at junction of PWD road)	24.75	-
Sub Total	**24.75**	**5.50**
Occupational health and safety exp. with half yearly medical check-up of employee @30 workers	3.00	1.30
Sub Total	**3.00**	**1.30**
Environmental Monitoring cost	10.00	7.07
Sub Total	**10.00**	**7.07**
Barbed fencing@1580m	4.74@300Rs running meter	0.79@50Rs running meter
Sub total	**4.74**	**0.79**
Total EMP cost	**75.10**	**19.13**
CSR cost	9.00	9.70

Sub Total	**9.00**	**9.70**
Grand Total	**84.10**	**28.83**

During presentation it was observed that PP has submitted MoEF&CC compliance report of earlier EC condition which is reported as satisfactory. It was further submitted by PP that they have proposed alternate route (2.750 Kms) for mineral transportation avoiding habitations. After detail discussion, committee has asked the PP to submit the following information:

1. Revised EMP budget as suggested by the committee during presentation.
2. Revised CSR budget as suggested by the committee during presentation.
3. Revised calculation of mine life and year wise production details is to be submitted.
4. Revised Bench width and height.

PP has submitted the response of above quarries vide letter dated 23.10.2018 which was placed before the committee and the same found satisfactory. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for Mohla Laterite, Bauxite and Fire Clay Mining lease in an area of 5.901 ha. (capacity expansion from 10,000 TPA to 1,62,237) at , Khasra No. 01 at Village –Mohla Teh-Sihora, Distt-Jabalpur- (M.P), subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

8. Retaining wall along with drain shall be provided all around the down side of the hillock
9. For road spraying water tanker with water fogger shall be provided.
10. Alternate route of 02.750 Kms for mineral transportation avoiding habitations shall be provided.

11. Due safety precautions shall be taken for "Blown through shot" at the time of joining of two mining phase.
12. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
13. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 5080no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
14. Transportation of material shall be done in covered vehicles.
15. Transportation of minerals shall not be carried out through forest area.
16. Transportation of minerals will be carried-out through alternate proposed route avoiding habituation.
17. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
18. Garland drains 104.0mL X 0.50mW X 1.0mD, 232.0m L X 0.50mW X 1.00mD with 7 settling pits should be provided to avoid silt discharge. One other settling tanks (0.1ha X 5mD) shall be connected with garland drains and settling pits shall be provided for proper sedimentation.
19. Water sprinkling through tankers should be provided on 200 meter long and 06 meter wide haul road. However, regular water spraying should also be practiced on 2750 meters long and width 7.5 meters wide transport road for dust suppression.
20. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
21. The existing and proposed land use plan of the mine is as follows:

S. No.	**Items**	**Existing**	**At the end of conceptual period**
1	**Total lease area**	5.901ha	
2	Mineable area	4.6807 ha	
3	Ultimate depth of mining	9m bgl (394m AMSL)	18m bgl (385 m AMSL)
4	Ultimate pit slope	45 ^{o}	45 ^{o}
5	Area under dumps	0.6561ha	0.4255ha
6	Area under mineral stack	Nil	Nil

7	Area under pits	1.8557 ha	4.6807ha
8	Infrastructure & Road	0.1390ha	0.0090 ha
9	Plantation	0.50ha	0.50ha
10	Un-worked area	3.2247ha	0.3557ha
	Total	**5.901ha**	**5.901ha**
1	Water body	0.15ha	1.0426ha
2	Area to be backfilled	Nil	0.4253ha
3	Plantation	0.50ha	2.50ha (5080no.)
3.1	Un-worked area	0.50ha	0.50ha (1000no.)
3.2	Bench of pit	Nil	1.1492ha (2300.)
3.3	Backfilled area	Nil	0.4253ha (890 no.)
3.4	Dump area	Nil	0.4255ha (890no.)

22. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
23. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
24. The commitments made in the public hearing are to be fulfilled by the PP.
25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
26. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

27. The proposed EMP cost is Rs. 84.10 lacks and Rs. 28.83 lacks /year are proposed as recurring expenses.
28. Under CSR activity, Rs. 9.00 lacks and Rs. 9.70 lacks /year are proposed as recurring expenses in different activities and should be implemented through respective committees.
29. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
30. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
31. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
32. PP will comply with all the commitments made vide letter dated 23.10.2018.

33. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

4. **Case No. - 2426/2015 Shri Brijendra Sharma, Director, M/s S.R. Ferro Alloys, 9, Siddheshwar Colony, PO & Distt.-Jhabua (M.P.) – 457661 Jamli Choti & Arandi Falia Manganese Deposit Mine Lease Area - 15.26 ha., Capacity-38,000 cum/year) at Khasra No. – 255, 249, Vill.-Jamli Choti & Arandi Falia, Th.-Jobat, Distt.-Alirajpur -M.P.). Env. Consultant – Creative Enviro Services, Bhopal.**

This case was scheduled for the TOR presentation in the 192nd SEAC meeting dated 08.05.2015 wherein it was recorded that: This is a mining project pertaining to mining of Manganese Ore from a lease area of 15.26 Ha. The project is covered under the provisions of EIA notification. It is mentioned as item 1(a) in the schedule of the EIA notification hence requires prior EC from SEIAA. The application for EC was forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features, PFR and proposed TOR before the committee in this meeting. The project is located at Khasra No. – 255, 249, Vill.-Jamli Choti & Arandi Falia, Th.--Jobat, Distt.-Alirajpur -M.P.). It was reported that the project is not attracted by the General Conditions. PP submitted that the baseline environmental data has already been collected and requested the committee to allow him to use the same in EIA / EMP report. Based on the submissions made by the PP and the presentation the Committee recommended for inclusion of following points to be addressed in the EIA / EMP in addition to standard TOR:

1. Baseline environment monitoring data already collected may be used in the EIA / EMP report however it may be note that the data should not be older than 02 years. All data used in the report should be re-validated before use.
2. Compliances of the conditions of existing EC (if issued) duly verified from MoEF.
3. Vibration study to be conducted.
4. Production figures from 1994 onwards duly verified from Mining Department.
5. Existing status of the mining lease area.
6. Inventory of operating / proposed mines within 2 Km around the said mine.
7. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
8. Evacuation Plan to be provided with transport route, required infrastructure and man-power.

This case was recommended for delisting in the 314th SEAC meeting dated 10/05/2018 as neither the EIA is submitted by PP nor PP has submitted any request for TOR's validity

extention and the validity of TOR is expired. Later on SEIAA has closed the case in its 483rd meeting dated 16/05/2018.

PP vide letter dated 19/06/2018 has applied for TOR's validity extention in SEAC with from-1 and PFR and thus the case was placed in the agenda for necessary action.

SEIAA vide letter No. 1294 dated 20/08/2018 sent back the file to SEAC for consideration and appraisal as PP vide letter dated 24/07/2018 has applied in revised form-1 and PFR in accordance with the MoEF&CC OM dated 29/08/2017 for TOR validity extention. PP has also submitted the EIA on dated 16/05/2018 which is also forwarded by the SEIAA vide letter no. 1294 dated 20/08/2018.

Earlier this case was scheduled in the meeting in 326th SEAC meeting dated 21/08/2018 wherein it was recorded that, the validity of the TOR had expired on 07.05.2018.The committee observed that the TOR was issued by MoEF & CC on dated 08.05.2015 its validity was up to 07.05.2018 and as per MoEF&CC OM No. J-11013/41/2006-IA-II (I) (Part) dated 08/10/2014 it can be further extended for one year by regulatory authority. The case was presented by the PP and their consultant wherein PP informed that there is no change in the location and capacity of the project and thus their TOR may be extended for one year. The Committee after deliberations recommends that since PP has applied for the TOR validity extension with revised form-1 and PFR in accordance with the MoEF&CC OM dated 29/08/2017, the TOR's validity can be further extended for one more year with validity up to 06.05.2019 as per MoEF&CC OM No. J-11013/41/2006-IA-II (I) (Part) dated 08/10/2014. However, the EIA can be presented by the PP in the subsequent SEAC meeting after the TOR's validity extention is approved by the SEIAA.

This case was scheduled for the EIA presentation in 328th SEAC meeting dated 08/09/2018 wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The EIA was presented by the PP and their consultant and during presentation PP has submitted the salient features of the project, EIA, baseline data and the proposed EMP before the committee.
The presentation and the submissions made by the PP reveals following:

Environment setting:

Particulars	**Details**
Locations	

Village	Jamli Choti & Arandi Falia
Tehsil	Jobat
District	Alirajpur
State	MP
Latitude Longitude	22°29'34.0" to 22°30'00.8" North 74°34'38.1" to 74°35'00.8"East
General ground level	379mRL
Elevation range	Highest - 393m RL Lowest - 366m RL
Nearest National/ State Highway	SH-39 - 2.25km - W
Nearest Railway Station	Anas - 42.0 km
Nearest Airport	Indore - 127.0km
Nearest Tourist Place within 10km radius.	None
Archaeological Important Place within 10km radius.	None
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
Nearest hill range within 10km radius	None
Reserved / Protected Forest within 10km radius	Qila Jobat RF -0.75km - WSW Jali RF - 2.25km - WSW Paneri RF - 6.50km - W Jameri RF - 5.25km – SE Siyalip PF - 6.75km – NE Chualiya PF - 9.25km - E
Nearest Village	Jamli Choti - 0.20 km - WSW Arandi Falia - 0.40km - ESE
Nearest River with 10km radius	Dohi River - 4.75 Km - SE
Nearest Nalla/pond	Water Reservoir - 2.75km – SE Water Reservoir - 2.25km - S Nalla - 0.01km – W Nalla - 0.06km – SE Pond - 0.01km- W Pond - 0.09km- E Pond - 0.50km - WNW
Other mines within 2km radius	None
Industry within 10km radius	None

Surrounding features within 500m	East –Agricultural land, nalla, village road, Pond South east- Nalla, agricultural land, habitation South – Agricultural land, South west – Agricultural land, Nalla West-Agricultural land, Nalla & Village North west- Agricultural land, Nalla, pond North –Agricultural land & habitation
Nearest major city with 100000 population within 10km radius	None
Nearest Town/City within 10km radius	None

Sailent feature of the lease area:

S. No.	Particulars	Details
1	Type of Mine	Open Cast
2	Mining Lease Area	15.26 ha
3.	Mineable Area	1.60 ha
4.	Existing Pits & Quarries	0.75 ha
5.	Existing Dumps	0.10ha
6.	Existing Infrastructure	Nil
7.	Existing road	Nil
8.	Existing garland drain, settling tank	Nil
9.	Mineral Storage	Nil
10.	Plantation	Nil
11.	Recoverable Reserve	163750.00 MT
12.	Method of mining	OTFM
13.	Present depth of mining	1.5-6.0m
14.	Ultimate Depth of Mining	11m bgl (355m MSL)
15.	Ultimate Pit Slope	60-80^{o}
16.	Expected Life of Mines	7 years
17	Lease Period	30year
18	Thickness of lateritic soil	
	Minimum	0.0m
	Maximum	0.25 m
19	Stripping Ratio	1 :0.58 to 1:0.93
20	Mode to transportation	Road

21	Area to be covered under dumps in conceptual period	1.01 ha
22	Area covered under pit in conceptual period	1.4880 ha
23	Area to be reclaimed by conceptual period	Nil
24	Area to be covered under plantation by conceptual period	3.00 ha
25	Area to covered under water reservoir	1.00 ha
26	Area to covered under Infrastructure	0.06 ha
27	Area to covered under road	0.10 ha
28	Area to covered under garland drain, settling tank	0.34 ha
29	MSL	393-366m
30	Ground water table	
	Monsoon period	20m bgl (346m MSL)
	Dry month	25m bgl (341 m MSL)
31	Total production per day	127T
32	Dumper requirement per day (24tonne capacity)	5

Method of Mining

- Presently 15 pits have been observed in lease area, which covers 0.75ha area.
- Proposed mining will be done by opencast other than fully mechanized method with help of Excavator cum loader & JCB.
- The development in OB and ore body will be carried out from benches of height 6.0m and width 6.0m to 15.0m.
- During the proposal period additional 7380 sqm area will be worked and hence the total broken area at the end of proposal period will be 14880 sqm.
- The production has been proposed from benches of height and width equal to 6.0m during the proposal period in OB and ore. The lat. Soil is upto 0.25m in depth.
- Bench height has been proposed upto 6.0m for convenience and systematic mining.
- However sub benching will be done to facilitate Jack Hammer drilling and blasting and where ever formation changes due to dip of beds.
- The Haulage road will be 6m wide and laid at maximum 1: 16 gradient on haul road while 1:10 on ramp from surface to pit bottom.

- During the conceptual period about 1.4880ha area will be excavated upto 355m MSL (11m bgl) with one development bench and 2 to 3 production benches with height of 4 to 6m in the end of conceptual period.
- The thickness of lateritic soil and OB/waste is of around 0.25 to 4m and acting as overburden.

Plantation details:

Time Bound Plantation Programme		
Year	**Area**	**Number of Plants**
1st	0.75ha + 320m (Road side)	1500+ 250 = 1750
2nd	0.75	1500
3rd	0.75	1500
4th	0.75	1500
Total	**3.00+320m**	**6000 + 250**

SOCIO-ECONOMIC ENVIRONMENT:

PROPOSED CSR PLAN				
S.N	Plan	Activity	Capital investment in Lakh	Budgetary provisions (Rs in lakh)
1.	Promotion of quality education	Computer education: providing at least 02 computers in nearby school at Mandavgarh and Phata and providing facilities of teacher for computer education and basic education.	1.00	1.20
2	Need based support for school building repairing, toilets, fresh water supply etc through Gram Panchayat / Gram Sabha	To nearby villages Jamli choti, Arandi faliya, Phata, Mandavgarh	3.00	1.00
3	Free medical camp	Medical Checkup facility, first aid and other welfare activities for nearby villagers Jamli choti, Arandi faliya, Phata, Mandavgarh	-	2.00
4	Drip Irrigation facility at nearby villages	Motivation and financial assistance to the framers of nearby villages for drip	1.00	1.00

		irrigation Jamli choti, Arandi faliya, Phata, Mandavgarh		
5.	Financial support to gram panchayat for Need based i.e. drain line, road repairing etc.	Jamli choti, Arandi faliya, Phata, Mandavgarh	-	2.00
6.	Development of playground for youth	Land for playground will be given by gram panchayat	-	0.50
	Total		5.00	7.70

ENVIRONMENTAL MONITORING & MANAGEMENT

Budget For Occupational Health And Safety Of The Workers (In Lakhs)		
Items	**Capital Cost**	**Recurring cost**
Personal Protective Equipments (Mask, Gloves, Goggles) @100workers	2.00	0.50
Medical Checkup facility, first aid and other welfare activities @100 workers	2.00	0.50
Total	**4.00**	**1.00**

Total Cost (EMP + CSR+ plantation + Monitoring)		
Particular	**Amount (Lakh) per annum – Capital**	**Amount in Rs (Lakh) per annum – Recurring**
Dust Suppression through tanker over 0.32 km transport road * 6.0m (15 Rs/km inclusive diesel exp, driver exp and maintenance) Approx running per day 3.2 km @300 day (over road) = 960 km per annum	-	0.15 (960 X15)
Dust Suppression through tanker over haul road 0.5km road * 5.0m (20Rs/km) Approx running per day 24km@300 day =7200km per annum	-	0.1.44 (722X20)
Sub Total		**1.69**
Plantation (Capital cost) Along the transport Road (250No)	0.89	-
Maintenance of Plantation (Along the village Road & lease area) @Rs 80/- per plant	-	0.64 (Yearly average)
Plantation (Capital cost) within lease area	15.00	-
Sub Total	**15.89**	**0.64**
Roads repair and maintenance (0.32km@2.0 lakh per Km)	-	0.64
Construction of WBM road – 0.32kmx 6.0mW @9.0lakh per KM	2.88	
Sub Total	**2.88**	**0.64**
Construction of retaining wall @2938mL X 1.5mH X 0.25-0.50mW (500s per meter)	14.69	2.94@100Rs per meter
Sub total	**14.69**	**2.94**

Barbed fencing@2938m	8.81@300Rs running meter	1.00
Sub total	**8.81**	**1.00**
Occupational health and safety exp. (Half yearly medical checkup of workers @100workers)	4.00	1.00
Sub Total	**4.00**	**1.00**
Environmental Monitoring cost	7.50	6.30
Sub Total	**7.50**	**6.30**
Total EMP cost	**53.77**	**14.21**
CSR cost	5.00	7.70
Grand Total	**58.77**	**21.91**

The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for Jamli Choti & Arandi Faliya Mn Ore Mining lease in an area of 15.26 ha. (capacity 38,000 TPA) at , Khasra No. 255 & 249 at Village –Jamli Choti and Arandi Faliya Teh-Jobat, Distt-Alirajpur- (M.P), subject to the following special conditions:

(A)PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

(B)MINING OPERATIONAL PHASE

8. Retaining wall along with drain shall be provided all around the down side of the hillock along the nalla and pond
9. Over head water sprinkling system shall be provided to the transport vehicle which will carry the salable material.
10. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would

maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.

11. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 6000no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
12. Transportation of material shall be done in covered vehicles.
13. Transportation of minerals shall not be carried out through forest area.
14. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
15. Garland drains 430.0mL X 0.50mW X 1.0mD, 330.0m L X 0.50mW X 1.00mD, 690.0m L X 0.50mW X 1.00mD, 730.0m L X 0.50mW X 1.00mD, 694.0m L X 0.50mW X 1.00mD, 400.0m L X 0.50mW X 1.00mD & 590.0m L X 0.50mW X 1.00mD with 15 settling pits should be provided to avoid silt discharge. Three settling tanks (0.3ha X 5mD, 0.2ha x 5mD & 0.1105ha x 5mD) shall be connected with garland drains and settling pits shall be provided for proper sedimentation.
16. Water sprinkling through tankers should be provided on 1500 meter long and 06 meter wide haul road. However, regular water spraying should also be practiced on 320meters long and width 06 meters wide transport road for dust suppression.
17. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
18. The existing and proposed land use plan of the mine is as follows:

Items	Existing	At the end of conceptual period
Total lease area	15.26ha	
Area under dumps	0.10ha	1.01ha
Area under mineral stack	Nil	0.50ha
Area under pits	0.75ha	1.4880ha
Area under infrastructure and road	Nil	0.16ha
Area under plantation	Nil	2.00ha
Sub-grade dump	Nil	0.10ha
Garland drain, settling tank	Nil	0.34ha
Un-worked area	14.41ha	9.662ha

Total area	15.26ha	15.26ha
Area to be backfilled	Nil	Nil
Water body	0.50ha	1.00ha
Plantation	Nil	3.00ha (6000no.)
Plantation in un-worked area	Nil	2.00ha (4000no. Plants)
Plantation in dump area	Nil	1.00ha (2000no. Plants)

19. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
20. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
21. The commitments made in the public hearing are to be fulfilled by the PP.
22. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
23. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

24. The proposed EMP cost is Rs. 53.77 lacks and Rs. 14.21 lacks /year are proposed as recurring expenses.
25. Under CSR activity, Rs. 5.00 lacks and Rs. 7.70 lacks /year are proposed as recurring expenses in different activities and should be implemented through respective committees.
26. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
27. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
28. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
29. PP will comply with all the commitments made vide letter dated 23.10.2018.
30. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

5. Case No. - 5664/2018 Shri Mohamad Abbas, Partner, 903, Badi Omti, Jabalpur, MP – 483501 Prior Environment Clearance for Marble Quarry in an area of 9.20 Ha.(15,248 cum per annum) (Khasra no. 785, 786, 787, 788, 789, 790, 791, 792, 793 & 794) at Village- Nimas , Tehsil - Bahoriband, Dist. Katni.

This is case of Marble Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 785, 786, 787, 788, 789, 790, 791, 792, 793 & 794) at Village-Nimas, Tehsil - Bahoriband, Dist. Katni (MP) 9.20 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office vide letter no. 317 dated: 16/01/2018 has reported that there are 14 more mines operating or proposed within 500 meters around the said mine with total area of 49.02 ha including this mine.

Earlier this case was presented by the PP and their consultant in 311th SEAC meeting dated 16/04/2018, wherein committee informed PP that the area of lease 9.20 ha and considering the area of other 14 mines within 500 meters the total area becomes 49.02 ha. PP submitted that as per the MO letter dated 16/01/2018 12 leases out of 14 were sanctioned prior to 2013 and should not be counted in the area calculation for cluster. The mines which are to counted for cluster are of 9.20 ha +4.83ha+0.90 ha =14.94 ha. After presentation the committee decided that PP should submit a comprehensive EMP through QCI/NABET **accredited** consultant addressing following issues as there are number of mines in the 500 meters vicinity:-

1. EMP with one month data for Air, Water and Noise monitoring.
2. Inventory of existing trees with their number and species on the lease and detailed plan if any existing tree is to be uprooted for the mining.
3. Rain water harvesting to be proposed.
4. Details of proposed blasting and safety measures should be discussed in the EMP.
5. Dimensions of evacuation road and traffic density should be discussed in the EMP considering the load of neighboring mines.
6. Year wise details of minerals already excavated till date should be submitted with EMP report.
7. Management and disposal plan of OB.
8. Existing scenario of site should be discussed in the EMP in detail.
9. EMP should be supplemented by the recent photographs of the site.
10. Details of previous holder of leases should be provided in the EMP report.

PP has submitted the EMP report vide letter dated 05/10/2018 which was forwarded through SEIAA vide letter no.-1538 dated 12/10/2018.

Project proponent and his consultant presented the salient features of the project, baseline data and the proposed EMP before the committee. The presentation and the submissions made by the PP reveals following:

Environment setting:

Particulars	Details
Village	Nimas
Tehsil	Bahoriband
District	Katni
State	MP
Latitude Longitude	23°35'48.50" to 23°35'59.1" North 80°10'42.50" to 80°10'00.7" East
Nearest Village	Nimas - 1.25 km – NW
Nearest National/state Highway	NH-7 – 2.50 km - SE
Nearest Railway Station	Sleemnabad – 10.75 km - SE
Nearest Airport	Jabalpur - 47.50 km
Nearest Tourist Place within 10km radius.	None within 10km radius
Archaeological Important Place within 10km radius.	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None within 10km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Amoch RF - 1.25 km - S Jujhawal RF - 3.70 km -N RF - 0.05m - S
Nearest Town / City within 10km radius	None
Nearest River, Nalla, Canal/ pond	Chhapra Pond - E - 4.00km Pond - SW – 4.75km Canal - ESE - 8.25km Canal - SWS – 6.00km Sahar Nadi - NW - 9.50km Silpuri Nadi - SE - 7.50km
Other industries within 10km radius	None

Sailent feature of the lease area:

Particulars	**Details**
Type of Mine	Open Cast

Mining Lease Area	9.20 ha
Mineable Area	7.9925 ha
Existing Pits & Quarries	1.7955 ha
Existing Dumps	0.3565ha
Plantation	Nil
Recoverable / Mineable Reserve	13,60,100 m^3
Method of mining	Mechanized
Ultimate Depth of Mining	39m bgl (406 m MSL)
Ultimate Pit Slope	45^o
Expected Life of Mines	91 Years
Lease Period	20 year upto 2037
Stripping Ratio	1:40
mode of transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	7.9925 ha
Area to be backfilled by conceptual period	6.00 ha
Area to be covered under plantation by conceptual period	6.70 ha
Area to be covered under water reservoir	1.79 ha
Elevation	450-445 m MSL
Ground water table	
Monsoon period	68m bgl (367 m MSL)
Dry month	78 m bgl (357 m MSL)
Production per day @300day	51 m^3
Dumper required per day @7 m^3	7 no

Method of Mining

- This is a fresh grant case. Proposed mining method is Block Mining by adopting the Gali Toda method by using help of wire saw, LD-4, Jack Hammer, Hydraulic Jack, Compressor, Tata Hitachi Shovel excavator and Crane.
- The individual bench faces will be kept nearly vertical (80^0- 85^0) while the pit slope will be less than 45^0.
- **Principle of Block Mining**
- Selection of suitable block which has physical quality color, grain size, polish behavior with the diamond tools and concern block should be without cracks and fractures.
- The principle of block mining is to get three free faces known as the Gali (along the strike) and Toda (across the strike). The basic purpose to prepare the Gali and Toda is to get proper space for block cutting in L shape (combination of Gali and Toda) therefore first Gali and then Toda is developed which is localized for proper functioning of wire saw machine approximately 3 - 6 m space.

- After getting the L shape vertical and horizontal hole, required depth or height of the bench then making the thread alignment in the rectangular shape the holes are drilled with LD-4 portable DTH drill machine. After getting the bore hole drilled then diamond wire saw machine to cut the bottom with diamond pearls followed by both vertical cuts making rock free from all the sides and now this block is pushed with help of pneumatic bags or water bags with hydraulic jack 'Power jack' and cut down blocks are lifted to the surface by crane or pock land machine and waste material is kept at required places with the help of dumpers/ tractors.

Plantation Details:

Year	**Area (in sq mt)**	**Number of Plants**
1st Year	5000 + 2100m (Road side)	1000 + 840 = 1840
2nd Year	2100m (Road side)	840
6th to CP	62000	12400
Total	**67000 Sqm+ 2100m**	**13400 + 1680**

SOCIO ECONOMIC MEASURES:

SN	**Plan**	**Activity**	**Budgetary provisions (Rs in lakh)**	
			Capital	**Recurring**
1.	Training on marble cutting and polishing	To provide training center at site	4.00	2.00
2	To provide need base infrastructure	At school of Nimas, Chhapra, Amoch, Kachhargaon	2.00	1.00
3	Free medical camp	Medical Checkup facility, first-aid and other welfare activities for nearby villagers	-	2.00
4	To provide drinking water facility	Hand pump provide for drinking water at Nimas, Chhapra, Amoch, Kachhargaon (Two hand pump each village)	6.00	1.00
5	To provide financial support to gram panchyat for need base facility		-	5.00
6	To provide playground at village Nimas	Developed the play ground after providing land for gram Panchayat	-	0.50
			12.00	**11.50**

Environmental Management Plan:

Budget for Occupational Health and Safety of the workers (in Lakhs)		
Items	**Capital Cost in lacs**	**Recurring cost in lacs**
Personal Protective Equipments (Mask, Gloves, Goggles, shooes, ear plugs) @ 30 workers	1.0	0.30
Occupational Health and safety and other welfare activities @ 30 workers	2.0	1.0
Total	3.0	1.30

Total Cost (EMP + CSR+ plantation + Monitoring)		
Particular	**Amount (Lakh) per annum – Capital**	**Amount in Rs (Lakh) per annum – Recurring**
Dust Suppression through tanker over haul Road 500mt road * 6.0m (20Rs/km) Approx running per day 8.0km(08 trip per day) @300 day = 2400 km per annum	-	0.192 Say 0.20
Sub Total	**-**	**0.20**
Plantation (Capital cost) Along the transport Road	8.40	-
Maintenance of Plantation (Along the village Road & lease area) @ Rs 45/- per plant	-	6.79
Plantation (Capital cost) within lease area	46.90	-
Sub Total	**55.30**	**6.79**
Roads repair and maintenance (2.10kmx 7.50mW @2.0 lakh per Km)	-	4.20
Construction of TOR road (2.10km @ 7.5mW @15.0 lakh per Km with 8.5m winding at junction of PWD road)	31.50	-
Sub Total	**31.50**	**4.20**
Occupational health and safety exp. with half yearly medical check-up of employee @30 workers	3.00	1.30
Sub Total	**3.00**	**1.30**
Environmental Monitoring cost	30.50	23.90
Sub Total	**30.50**	**23.90**
Barbed fencing@900m	2.70@300Rs running meter	0.45@50Rs running meter
Sub total	**2.70**	**0.45**
Total EMP cost	**123.00**	**36.84**
CSR cost	12.00	11.50

Sub Total	**12.00**	**11.50**
Grand Total	**135.00**	**48.34**

During presentation it was observed that forest area is within the 250 meters of the lease area and as per DFO letter dated 25/04/2016 PP has obtained permission from competent authority vide letter dated 18/03/2015. After detail discussion, committee has asked the PP to submit the following information:

1. Photographs of the lease area showing the coordinates.
2. Revised EMP budget including construction of tar road from lease area to Pucca road

PP has submitted the response of above quarries vide letter dated 23.10.2018 which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for Nimas Marble Mining lease in an area of 9.20 ha. (capacity 15,248 cum per annum) at Khasra No. 785,786,787,788,789,790,791,792,793 & 794 at Village –Nimas Teh-Bahoribandh, Distt-Katni- (M.P), subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

8. Retaining wall along with drain shall be provided all around the periphery along the agricultural land and forest
9. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense

plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.

10. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 13,400 no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. Transportation of material shall be done in covered vehicles through tar road.
12. Transportation of minerals shall not be carried out through forest area.
13. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
14. Garland drains 318.0mL X 0.50mW X 1.0mD, 147.0m L X 0.50mW X 1.00mD, 229.0m L X 0.50mW X 1.00mD, with 07 settling pits should be provided to avoid silt discharge. Two settling tanks (0.16ha X 10mD, 0.10ha x 10mD,) shall be connected with garland drains and settling pits shall be provided for proper sedimentation.
15. Water sprinkling through tankers should be provided on 500 meter long and 06 meter wide haul road.
16. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
17. The existing and proposed land use plan of the mine is as follows:

Items	Existing	Conceptual Period
Total lease area	9.20 ha	
Ultimate depth of mining	19m bgl (426m MSL)	39m bgl (406m MSL)
Area under dumps	0.3565 ha	Nil
Area under pits	1.7955 ha	7.9925ha
Infrastructure & Road	0.01 ha	Nil
Mineral storage	Nil	Nil
Plantation	Nil	0.50ha
Un-worked area	7.038 ha	0.7075 ha
Total	9.20 ha	9.20 ha
Water body	0.25ha	1.79 ha
Area to be reclaimed	Nil	6.00 ha
Plantation		
Un-worked area	Nil	0.50ha (1000no.)
Backfilled area	Nil	6.00 ha (12000no.)
Bench slope Afforestation	Nil	0.20ha (400no.)
Total area for plantation	Nil	6.70ha (13400no.)

18. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
19. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
20. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
21. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

22. The proposed EMP cost is Rs. 135 lacks and Rs. 48.34 lacks /year are proposed as recurring expenses.
23. Under CSR activity, Rs. 12.00 lacks and Rs. 11.50 lacks /year are proposed as recurring expenses in different activities and should be implemented through respective committees.
24. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
25. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
26. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
27. PP will comply with all the commitments made vide letter dated 23.10.2018.
28. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance

6. **Case No. - 5574/2017 M/s The Ishwar Mining and Industrial Corporation (Pvt.) Ltd, Mr. John George, Director In-Charge, Charankamal, 7, Ishwar Nagar, Mathura Road, New Delh Prior Environment Clearance for Pyrophyllite and Diaspore Mine in an area of 17.00 Ha., production capacity-38,063 TPA (Khasra no. 479) at Village- Khurai, Tehsil - Pichhore, Dist. Shivpuri (MP).**

This is case of Pyrophyllite and Diaspore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra no. 479) at Village- Khurai, Tehsil - Pichhore,

Dist. Shivpuri (MP) 17.0 ha.The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO.Concerned Mining Officer vide letter no.1896, dated: 15/01/2016, has reported that there are no more mine operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant in the SEAC 80th meeting dated 14.06.2017. After presentation the committee decided that PP should submit a comprehensive EMP through QCI/NABET **accredited** consultant addressing following issues:-

1. EMP with one month data for Air, Water and Noise monitoring.
2. Inventory of existing trees with their number and species on the lease and detailed plan if any existing tree is to be uprooted for the mining.
3. Details of plantation scheme to be submitted by the PP.
4. Management and disposal plan of OB.
5. Surface plan clearly showing the area left due to roads as per MMR, 1996 and location and size of settling tanks and garland drains.
6. Management of mine water discharge.
7. Transportation and evacuation plan of minerals considering production volume of all the mines within 500 meters radius."
8. Mechanism of Blasting done to be discussed in the EMP report.
9. Production details to be submitted in the final EMP report.

Earlier this case was discussed in 314th SEAC meeting dated 10/05/2018 wherein it was recorded that a letter was sent to PP vide no. 429 dated 21.06.2017 for submission of EMP and later reminder letter vide letter no. 511, dated 27.11.2017 was also sent. However, PP vide letter dated 20.12.2017 has informed that field study has been completed and EMP preparation is also in process thus two months more time may be permitted for submission the desired document. Till date PP has not submitted the comprehensive EMP and thus the case was placed before the committee. Committee on perusal of the case file observed that till date, PP has not submitted the comprehensive EMP and have also not requested for the time hence, in the light of MoEF &CC, O.M. File no. J-11013/5/2009-IA-II (Part) , Dtd. 30th October, 2012 case may be recommended for delisting to SEIAA.

SEIAA vide letter no. 1407 dated 27/09/2018 has send this case file to SEAC by stating that: Since PP has submitted information about new mining scheme, Revised Form-I, PFR and changed production capacity vide letter dated 30.08.2018.

Based on the above this case was scheduled and it was observed by the committee that this is a case of minor mineral, hence falls under category B-2 for which PP has submitted the "Comprehensive EMP" vide letter dated 30/08/2018, along with Revised PFR, Form-I, with revised Production capacity (from 27,563 TPA to 38,063 TPA), which was placed before the committee.

The EIA/EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for Khurai Pyrophyllite and Diaspore Mining lease in an area of 17.00 ha. capacity 38,063 TPA at , Khasra No. 479 at Village –Khurai Teh-Pichhore, Distt-Shivpuri- (M.P), subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

8. Retaining wall along with drain shall be provided all around the down side of the hillock along the agricultural land and village
9. Over head water sprinkling system shall be provided to the transport vehicle which will carry the salable material.
10. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense

plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.

11. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 18500no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
12. Transportation of material shall be done in covered vehicles through tar road.
13. Transportation of minerals shall not be carried out through forest area.
14. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
15. Garland drains 300.0mL X 1.00mW X 1.0mD, 410.0m L X 1.00mW X 1.00mD, 630.0m L X 1.0mW X 1.00mD, 1000.0m L X 1.0mW X 1.00mD, 575.0m L X 1.0mW X 1.00mD, with 11 settling pits should be provided to avoid silt discharge. Four settling tanks (0.16ha X 5mD, 0.14ha x 4mD, 0.18ha x 0.5mD & 0.16ha x 4mD,) shall be connected with garland drains and settling pits shall be provided for proper sedimentation.
16. Water sprinkling through tankers should be provided on 1000 meter long and 06 meter wide haul road. However, regular water spraying should also be practiced on 1440meters long and width 05 meters wide transport road for dust suppression.
17. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
18. The existing and proposed land use plan of the mine is as follows:

Sr. No	Land Use	Present (Ha)	Conceptual period (Ha)
1.	Pit	6.60	9.80
2.	Dumps	7.5340	Nil
3	Infrastructure & Roads	0.17	Nil
4	Mineral storage	0.1925	Nil
5	Plantation Area	1.50	3.00
6	Un worked area	1.0035	4.20
	Total	**17.00**	**17.00**
1	Reclamation	0.1950	9.80
2	Plantation	1.50	10.0 (18500 no.)

2.1	Backfilled area	Nil	5.00 (10000 no.)
2.2	Road side Plantation	Nil	Nil
2.3	Barrier zone	1.50	1.50 (1500 no.)
2.4	Bench	Nil	2.00 (4000no.)
2.5	Un-worked area	Nil	1.50 (3000 no.)
3	Water body	0.50	0.64

19. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
20. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
21. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
22. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

23. The proposed EMP cost is Rs. 86.49lacks and Rs. 24.53lacks /year are proposed as recurring expenses.
24. Under CSR activity, Rs. 3.00 lacks and Rs. 7.00 lacks /year are proposed as recurring expenses in different activities and should be implemented through respective committees.
25. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
26. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
27. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
28. PP will comply with all the commitments made vide letter dated 23.10.2018.
29. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

7. **Case No. - 5737/2018 M/s Panchsheel Organic Limited, B-6-B7, Sector C Industrial Estate Sanwer Road, Indore (M.P.) Prior Environment Clearance for Manufacturing of Bulk Durg & Intermediate at Plot No. 87 & 88 Village Sagor, Pithampur Distt. Dhar (M.P.) Land area 6000 Sqm, Proposed Capacity 10,000 Kg/Month or 120 TPA with by product of 14.65 Kg/day.**

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project.

Earlier this case was scheduled in 327th SEAC meeting dated 07/09/2018 wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Salient features of the project:

Project Proponent	M/s Panchsheel Organic Ltd.
Project Name	Manufacturing of Bulk drug and Intermediates
Production capacity	120 TPA of bulk drug and drug Intermediate
Estimated Project Cost	7 Crores
EMP Cost	2.5 Crores
Acquired Land	6000 sq mtrs
Total Water Consumption	31.64 KLD
Source of Water Supply	Through AKVN
Waste Water Generation	11.50 KLD
Proposed Treatment Facility	POL will install Multi Effective Evaporator, with treatment capacity 15 KL/Day. The treated water will be used for cooling towers, floor washing and gardening/green belt.
Source of power supply	Madhya Kshetra Vidyut Vitaran Company

Power Requirement	250 KVA
Fuel Options	Fuel: Coal DG Set 125 KVA
M ajor equipments	Reactors, Centrifuge, Vacuum Try Dryer, Filters, Boiler, Cooling Tower, MEE, ETP and RO etc.
Proposed green belt	573.61 sq mtrs
Employment generation	200 no.
Fund for CSR activities	to be worked out in EIA study

Environmental Setting of Project:

Particulars	**Details**
Locations	
A. Village	Sagor, Pithampur Industrial area, Sector-3
B. Tehsil	Dhar
C. District	Dhar
D. State	Madhya Pradesh
Toposheet No.	46N/10
Latitude Longitude	22°37'4.56"N - 22°37'11.85"N 75°36'0.75"E-75°36'9.48"E
General ground level	554m above MSL
Nearest National/ State Highway	Mhow- Ghatabillod Road – 1.25km - N
Nearest Railway Station	Mhow – 18.75km
Nearest Airport	Indore – 23.50km
Nearest Tourist Place	None within 10km radius
Archaeological Important Place	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10km radius
Reserved / Protected Forest within 10km radius	Betma RF - 5.50km – NE PF - 2.75km - SE
Nearest major city with 100000 population	None within 10km radius
Nearest Town / City within 10km radius	Pithampur
Surrounding village within 1 km area of the project	Sagor
Nearest village	Sagor - 1.00km - S
Nearest River	Chambal River – 5.75km - SW Angrer Nadi - 1.50km – SE
Nearest Lake/ Ponds	Nulikhl Nalla – 6.50km - NNW

	Kishan pura Talab – 7.50km – NE Sanjay Jalashay – 7.75km - ESE
Nearest Hill Ranges	None within 10 km radius

The case was presented by the PP and their consultant. After presentation, committee decided to recommend standard TOR prescribed by MoEF&CC with along with following additional TORs as annexed in annexure-D:

1. PP should provide entire product mix in the EIA report.
2. Worst case scenario w.r.t. waste water and hazardous waste should be submitted.
3. Details of solvents and their recovery plan should be discussed in the EIA report.
4. VOC should be monitored in the AAQ.
5. All MSDS should be provided with the EIA report.
6. Industry has to comply with zero discharge for which necessary details should be provided in the EIA report.
7. Land use plans of the plant both existing land use as well as proposed land use and PP should assure that no existing green area shall be altered for which a written commitment be submitted with the EIA report.
8. Details of any waste at present lying within the plant premises and if yes, same should be discussed in the EIA report with its disposal plan.
9. Inventory of existing and proposed machinery and if any existing machinery proposed to be used same shall be presented in the EIA report.
10. PP should explore possibility of using Biofuel based technology in boilers.
11. Compatibility of raw material storage.
12. Ash management plan is to be submitted in the EIA report.

8. **Case No. - 5748/2018 M/s S.L.K.Organics, Near Mahadev Press, Ward No. 20, Old Ram Mandir Road, Balaghat, MP – 481001 Prior Environment Clearance for Grain Based Distillery for Production of 10 KLPD of total spirit /fuel ethanol, 0.8 MW Co-generation power plant & 9 TPD of CO_2 generation as by product, at Khasra no.-289/4/2, 289/5/2, 291/19, Village- Kawda (Chatera Road), Tehsil - Lalburra, Dist. Balaghat (MP).Category: 5(g) Distillery Project. Env. Con. – Env. Consultant. – Creative Enviro Services, Bhopal (M.P.).**

This is a case of grain based distillery comprising production of RS and ENA including Co-generation of power generation of 0.8 MW Co-generation Power Plant, with proposed production capacity of 10 KLPD of Total Sprit/Fuel Ethanol. The unit is proposed Khasra No. – 289/4/2, 289/5/2, 291/19, at Village- Lawada (Chatera Road), Tehsil - Lalburra, Dist. - Balaghat (M.P.).

Salient features of the project:

The proposed project is green field project for production of Fuel Ethanol using grain as feed stock.

Site Address	Khasra - 289/4/2, 289/5/2, 291/19 , Village - Lawda , Chatera Road , Tehs Lalburra, and Distt - Balaghat (MP)
Production Capacity	Grain base distillery unit for fuel ethanol of 10 KLPD along with 800 Power Plant
Cost of Project	10 Crore
Grain Requirement	25 TPD
Boiler capacity at MCR (100% Load)	25 TPH
Steam Requirement	45kg/cm2
Fuel	34 TPD as Rice Husk
Net fresh Water Requirement	108 KLD
Power Requirement	600 KW
Capital Cost for Environmental measures (proposed)	Rs 50 Lacs
Recurring cost for environmental monitor etc (Proposed)	Recurring charges is envisaged towards monitoring for Continuous St Emission Monitoring System (CSEMS) and Effluent Quality Monitor System (EQMS) for 24x7 online systems for stack as well as effluent To worked out in EIA study)
Proposed area for plantation	5000 sq mt
Alternative Source of Power	DG set of 625 KVA
Land acquired	1.22 hact (12200 sq mtrs)
Land required for plant and building	2796.46 sqmt

Environmental Setting of Project:

S. No.	Particulars	Details
1	Co-ordinate	21° 51' 23.58'' N - 80° 7' 16.87'' E 21° 51' 23.29'' N - 80° 7' 18.90''E 21° 51' 28.78'' N - 80° 7' 18.82'' E 21° 51' 30.13'' N - 80° 7' 20.64'' E 21° 51' 26.90'' N - 80° 7' 21.64'' E
2	Height above mean sea level	315-309m MSL
3	Nearest Town	Balaghat – 5.75km – SE
4	Nearest Railway Station/Town	Dhapewara – 7.25km - ENE
5	Nearest Airport	Nagpur – 140km
6	Nearest Highway/Road	Lalburra –Balaghat SH- 36 - 1.25km
7	Hills/Valley	None in 10 km radius
8	Ecological Sensitive Zone	None in 10 km radius

9	Reserve Forest	PF – 400m – SE PF – 3.25km – WSW Najul RF – 5.75km - SE
10	Nearest Village	Lawada – 0.80km – WSW
11	Nearest River/ Nalla	Bargur Nalla – 0.40 km – N Seasonal Nalla – 0.30 km - E Wainganga River – 4.50 km – E Wainganga Main Canal – 2.50km – SW Sarathi Nadi – 5.00 km - NNE Pond – 0.50km – SE Atri Nalla – 9.7 5km - NNW
12	Surrounding Features	N- Agricultural land E- Agricultural land followed by Nalla S- Agricultural land followed by forest W- Waste land

The project is covered as item 5(g) in the schedule of EIA notification hence requires prior EC from SEIAA before commencement of any activity at site. The application for grant of prior EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. Salient features of the project PFR and the proposed TOR were presented before the committee by the PP and his consultant. After deliberations committee has issued following TORs' in addition to the standard TORs' prescribed by the MoEF & CC annexed in annexure-D:

- Expected Odor nuisance in the nearby Villages to be addressed.
- The solid waste generated in the process is claimed to be used as cattle feed; details regarding its quality, use and overall management to be furnished.
- Zero liquid discharge shall be maintained for which necessary details shall be furnished.

9. **Case No. - 5754/2018 Satguru Cement Private Limited, 601/1, Airen Heights, Scheme No. 54, PU-3, Opposite C-21 Mall, A.B. Road Indore (MP) Prior Environment Clearance for Integrated Cement Manufacturing Unit and Captive Power Plant Including Waste Heat Recovery Plant (0.825 MTPA Clinker & 0.95 MTPA Cement Plant, 12 MW Captive Power Plant, 7 M WHR Plant) at Khasra no.- a) Karondiya : 4, 24, 26/1, 36, 37/1, 33/1, 33/2, 34, 24/1/1/1, 24/2 b) Attarsuma: 61, 72/1, 75/1 c) Ghursal : 361/1, 365/1, 367/1, 368/1, 380/1, 380/2, 382, 383, Village Karondiya, Attarsama & Ghursal, Tehsil Gandhwani District Dhar (MP) Category: 3(b) Cement Project. Env. Con. – Creative Enviro Services, Bhopal (M.P.).**

This is a case of Integrated Cement Manufacturing Unit and Captive Power Plant Including Waste Heat Recovery Plant (0.825 MTPA Clinker & 0.95 MTPA Cement Plant, 12 MW Captive Power Plant, 7 MWHR Plant) The project is covered as item 3(B) in the schedule of EIA

notification as standalone grinding unit and hence requires prior EC from SEIAA before commencement of any activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project.

The project is proposed in Village Karondiya, Attarsama & Ghursal, Tehsil – Gandhwani, District - Dhar (M.P.). The land for the project has been allotted by AKVN Indore. The application pertaining to EC was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. Project proponent and his consultant presented the salient features of the project, PFR, baseline data and the proposed TOR before the committee. The presentation and the submissions made by the PP reveals following: The case was presented by the PP and their consultant and during presentation following details were provided.

Salient features of the project:

The proposed cement plant will be operated on dry basis, which offers more advantages, particularly in fuel & water conservation. The proposed plant comprises of limestone crusher, raw mill, pre-heater & pre-calciner, rotary kiln, cooler, coal mill and cement mills & packers in Cement Plant. The cement will be Ordinary Portland Cement (OPC) and Pozzolona Portland Cement (PPC).

Particulate	Details
Capacity	Integrated Cement Plant of capacity 0.825 Million TPA of clinker and 0.95 Million TPA of Cement, A Captive Power Plant (CPP) of 12 MW and Waste Heat Recovery System (WHRS) of 7 MW
Cost of Project	Rs. 425.40 Crore
Cost of Pollution Control Equipments	Approximately Rs. 1000 Lacs
Type of Fuel	30% Imported coal and 70% Pet coke (1:1 ratio) for cement plant and 100% Indian coal for Power Plant
Source of Fuel	Imported
Water Requirement	885 KLD for integrated plant and colony
Source of Raw water	Surface water and at a later stage the rain water accumulated in working pit in the mining area.
Major Equipments	Kiln, Coal Mill, Raw mill, Cooler, Cement mills, Boilers (CPP and WHR Plants) and Turbo Generator
Type of Boiler	Atmospheric Fluidized Bed Combustion
Pollution control equipment	ESP and Bag Filters
Level of particulate Matter after APC	< 25mg/ NM^3
Total Employment generation	Total 450 nos. of employees are proposed to be in employment
Ash Generation	70 TPD
Fly Ash Silo Capacity	1 X 100 T

Environmental Setting of Project:

Particulars	Details
Village	Karondiya, Atarsama, Ghursal, The Gandhwani Dist Dhar (MP)
Latitude Longitude	22°23'7.68"N-22°23'21.96"N 75° 4'24.18"E - 75° 4'33.25"E
General ground level	310mRL
Elevation range	Highest -305 m MSL, Lowest- 291 m MSL
Nearest National/ State Highway	SH - 38 – Adjacent - W
Nearest Railway Station	Mhow – 74.0 km
Nearest Airport	Indore – 83.25 km
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
Nearest hill range within 10km radius	Sardarpur Pahar - 5.0 km - N
Reserved / Protected Forest within 10km radius	Sardarpur RF - 6.00 km - NE
Nearest major city with 100000 population within 10km radius	None
Nearest Town/City within 10km radius	Gandhwani - 8.50 km
Nearest Village	Karonidya – 0.75 km - SW
Nearest River with 10km radius	Man River - 1.50 km - E Sukkar Nadi - 0.50 km - W Gandharwa Nadi – 6.75km - W
Nearest Nalla/pond	Man Reservoir - 2.50 km - NE Canal - 0.20km – E
Mines within 2km radius	Mohanlal Bansal, Karondiya Satguru Cement, Ghursal
Industry within 10km radius	M/s Satguru Cement Pvt. Ltd. Ghursal Dist Dhar

The case was presented by the PP for issuing of TOR to carryout EIA studies with site specific details. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's as annexed as annexure "D":-

1. Ambient Air Quality Monitoring Stations should be located in all the villages which are within 01 kms radius of the project site and incremental GLC should be predicted in all such villages.
2. Concerned Regional Officer, MP Pollution Control Board must be informed about the monitoring locations and monitoring should be carried out under intimation to him.

3. In EIA study the mode of transportation, storage of fly ash, all raw materials and products should be discussed along with their impacts.
4. Protection Plan for surface run off should be discussed in EIA report.
5. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
6. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
7. Transportation plan & traffic management plan should be discussed in the EIA report.
8. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
9. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
10. Year wise details of minerals already excavated till date should be submitted with EIA report.
11. Hydro geological study should be carried out if ground water intersection is proposed.
12. Top soil management plan should be addressed in EIA report.
13. Input data of modeling should be addressed in EIA along with this all back up calculation.
14. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
15. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
16. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
17. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.

10. Case No. - 5721/2018 M/s Elite Engineers, 48, Narmada Road, Opposite Johnson Towers, Jabalpur, (M.P.). Prior Environment Clearance for Common Bio Medical Waste Treatment Facility through 200 kg per hour rotary kiln based bio medical incineration project at Khasra no. Part of 384 Village - Kathonda (Madhotal), Distt. - Jabalpur (M.P.) 7(da) Common Biomedical Waste Treatment, Storage and Disposal Facilities (TSDFs).

This is case of Prior Environment Clearance for Common Bio Medical Waste Treatment Facility through 200 kg per hour rotary kiln based bio medical incineration project at Village - Kathonda (Madhotal), Distt. - Jabalpur (M.P.) 7(da) Common Biomedical Waste Treatment, Storage and Disposal Facilities (TSDFs).The project requires prior EC before commencement of any activity at site.

This case was scheduled for presentation, wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in 328th SEAC meeting dated 08/09/2018 & 326th SEAC meeting dated 21/08/2018. Committee decided to call the PP in subsequent meetings giving last chance to present their case and even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

11. **Case No. - 5753/2018 M/s KJS Cement Limited, Maihar Village Amilia, Lakhwar Near NH-7, District Satna (MP)-485771 Prior Environment Clearance for Bhatia Limestone Mine in an area of 7.859 ha. for production capacity 25,000 TPA (Khasra No. 1089/1, 1089/4, 1112/, 1113, 1110, 1108, 1109, 1104 & 1111) at village - Bhatia, Tehsil - Maihar & Dist. Satna, MP.**

This is case of Prior Environment Clearance for Bhatia Limestone Mine in an area of 7.859 ha. for production capacity 25,000 TPA (Khasra No. 1089/1, 1089/4, 1112/, 1113, 1110, 1108, 1109, 1104 & 1111) at village - Bhatia, Tehsil - Maihar & Dist. Satna, MP.The project requires prior EC before commencement of any activity at site.

Salient features of the project:

S. no.	Particular	Details
1	Name of the project & its location	**7.859ha Bhatia Limestone Mine** Khasra No. 1089/1, 1089/4, 1112, 1113, 1110, 1108, 1109, 1104 & 1111 Village- Bhatia, Tehsil- Maihar, Dist-Satna (MP)
2	Name of the Company, Address Tele No. & E-mail	M/s KJS Cement Ptd., Village-Amilia, Lakhwar, Near NH-7, Maihar, Dist. Satna (MP)
3	Latitude and Longitude of the project	24°17'30.10"Nto 24°17'40.50"N 80°54'4.90"E to 80°54'20.50"E
4	If a Joint venture, the names & addresses of the JV partners including their share	NA
5	Project brief: nature of proposal (new/expansion,) total area-land use, project components, connectivity to the site etc	Running mine and presently closed since 2015, area – 7.859ha, Pvt. Land connectivity-NH-7
6	Whether the project is in the Critically Polluted Area (CPA):	No
7	Cost of the project	100.0 lakh
8	Employment generated/to be generated	20
9	Benefits of the project:	Employment, other CSR activities
10	Whether new or expansion project .If expansion: i from ……. MT to …….. MT ii What is the % of expansion	Existing and 25000TPA
11	If for expansion, whether the application is under 7(ii) of the	NA

	EIA Notification, 2006.	
12	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	NA
13	No. and Date of the ToR /and revised ToR, if any, letter issued by the authority	NA
14	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	NA
15	If the project was considered in EAC, Pl. gives dates of the meeting (s)	NA
16	Type of Mine: (Open cast/Underground/mixed):	Opencast
17	Capacity of the mine applied for	**Limestone**
18	ML Area i. As per block allotment ii. As per approved mine plan	7.859ha
19	Date of approval of mine plan, mine closure plan, status & date	Mining plan approval date 04.11.2015
20	Date of Board's approval:	NA
21	Date of Ground water clearance	NA
22	Date of mine closure approval	NA
23	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost	ToR stage
24	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions	ToR stage
25	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details	No

The case was presented by the PP for issuing of TOR to carryout EIA studies with site specific details. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's as annexed as annexure "D":-

1. Ambient Air Quality Monitoring Stations should be located in all the villages which are within 01 kms radius of the project site and incremental GLC should be predicted in all such villages.
2. Concerned Regional Officer, MP Pollution Control Board must be informed about the monitoring locations and monitoring should be carried out under intimation to him.
3. In EIA study the mode of transportation, storage of fly ash, all raw materials and products should be discussed along with their impacts.
4. Protection Plan for surface run off should be discussed in EIA report.

5. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
6. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
7. Transportation plan & traffic management plan should be discussed in the EIA report.
8. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
9. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
10. Year wise details of minerals already excavated till date should be submitted with EIA report.
11. Hydro geological study should be carried out if ground water intersection is proposed.
12. Top soil management plan should be addressed in EIA report.
13. Input data of modeling should be addressed in EIA along with this all back up calculation.
14. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
15. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
16. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
17. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.

12. **Case No.- 5548/2017 M/s Hira Power and Steel Ltd, Khasra No. 51 1/1, 512/2, Urla Industrual Complex, Raipur, CG – 492003 Prior Environment Clearance for Manganese Ore Mine in an area of 6.264 Ha.. Expansion of Production Capacity from 10,000 to 18,000 TPA at Khasra no. 16/1, Village- Jagantola, Tehsil - Paraswada, Dist. Balaghat (MP).**

This is case of Manganese Ore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 16/1) Village- Jagantola, Tehsil - Paraswada, Dist. Balaghat (MP) 6.264 Ha. The project requires prior EC before commencement of any activity at site.

Objective	Environmental Clearance for capacity expansion at Underground Manganese ore mine (6.264 ha)
Existing Capacity	10, 000 TPA of Mn ore
Proposed Capacity	18, 000 TPA of Mn ore
Land use of core zone	Own Land

Lease period	03/11/2046
Validity of CTO	01/04/2016 to 31/03/2017 (Applied for the CCA renewal on 11/01/2017)
Previous Environmental Clearances	Letter No. J – 11015/212/2006 – IA.II (M), Dt. 27/09/2007 Letter No. 64/EPCO-SEIAA/12, Dt. 18/04/2012
Verification of Compliance by MoEF & CC	• eriod from 2008 to 2012 - Vide letter no. 3-38/ 2007/ ENV/ 203, Dated14/02/2012. • Period from 2012 to 2017 – Applied to MoEFCC vide letter no. HPSL/MINE/MoEF/17-18/006, dated: 11.04.2017
Location of Mine	Khasra No. – 16/1, Village – Jagantola, Tehsil – Paraswada,District – Balaghat (M.P.)
Lessee	Hira Power & Steels Ltd.
Altitude	640 – 600mRL (underground lowest – 529mRL)

Clarification regarding no requirement of NOC from commissioner level forest committee for 250 meter from forest boundary:

During presentation it was submitted by PP that as our Mining Lease area is not touching the forest boundary from any side and it is surrounded by ML area of Krishna Mining & Trading Syndicate (62.58ha) from 3 sides & one side it is adjacent to Mining Lease area of Mr. I. Patric Dhanaraaj, hence there is no necessity of NOC from commissioner level forest committee for 250 meter from forest boundary. Furthermore in letter of Govt. of Madhya Pradesh, Forest Department, Ministry which is addressed to MS MPSEIAA clearly written that "It is an old Mining Lease hence, no requirement of NOC Certificate". Govt. of M.P. Forest division, Ministry, Vallabh Bhavan, Bhopal, vide letter no. F-5/16/81/10-3, Bhopal dated 07.10.2002 also stated that provision for NOC from commissioner level forest committee for 250 meter from forest boundary is not applicable in case the Mining Lease is sanctioned prior to above stated date i.e. 07.10.2002 and our mine is sanctioned before this date.

Location	Village – Jagantola, Tehsil – Paraswada, District – Balaghat (M.P.)
Toposheet No.	64 C/5
Co-ordinates	Latitude – $21^0$56'53.90" to $21^0$57'07.90" N Longitude – 80^0 25'54.00" to $80^0$26'20.10" E

General ground level	636mRL
Elevation range	634mRL to 640mRL
Nearest Highway	State Highway – 26, 0.7 km towards North
Nearest Railway Station	Balaghat 45 km SW
Nearest Airport	Raipur 200 km SE
National park/ Wild Life Sanctuary/ Biosphere reserve/ tiger reserve/ elephant reserve etc. within the core and buffer zone of the mine	No National park/ Wild Life Sanctuary/ Biosphere reserve/ tiger reserve/ elephant reserve etc are reported to be located in the core and buffer zone of the mine.
Reserved / Protected Forest within 10 km radius	RF 1801 – 1.3 km West, RF 1802 – 55mtr West RF 1803 – 1.8 km SW, RF 1804 – 1.4 km South
Surrounding villages within 1 km of the project	Jagantola – NE, Rupjhar – NW, Daldala – East, Dhanitola - SE
Nearest River	Amanala – 1.25 km West, Kasturi nala – 0.75 km East
Nearest Lake & Ponds	Amanala dam – 1.4 km SW
Other Mines located within 500 m radius	Krishna mining & trading syndicate mine Jagantola,
Industry located within 10 km radius	None within 10 km
Area Surrounded by	North, East & South – Krishna mining & trading syndicate ML, West – I. Patric Dhanaraaj ML

The case was presented by the PP and their consultant in 77th SEAC-II meeting dated 24/05/2017, wherein PP submitted that it's a proposal for expansion from 10,000 TPA to 18,000 TPA without any change in the technology. Earlier EC was granted for the expansion from 8,000 TPA to 10,000 TPA with change in technology from open cast to underground mine by manual/semi mechanized method in an area of 6.264 ha and EC was issued vide letter no. 64/EPCO-SEIAA/12 Dated 18/04/2012. PP requested committee further that as per clause No. 7(ii) (a) of MOEF notification No. S. O. 3518 (E) dated 23rd Nov. 2016 they may be categorized in B2 category (without following entire environmental clearance process such as EIA report and public hearing) since proposed change does not result in any adverse impact on environment and whereas, the change in quantity of existing projects having environment clearance within existing area may be exempted from entire environmental clearance since there is no additional pollution load beyond the earlier approved threshold limit envisaged.

The provisions made in referred notification dated 23/11/2016 were placed before the committee which reads as follows:

"'*All applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance has been granted under this notification or with increase in either lease area or production capacity in the case of mining projects or for the modernization of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product mix shall be made in Form I and they shall be considered by the concerned Expert Appraisal Committee or State Level Expert Appraisal Committee with in sixty days, who will decide on the due diligence necessary including preparation of Environmental Impact Assessment and public consultations and the application shall be appraised accordingly for grant of environmental clearance".*

Committee after deliberation and considering the MoEF&CC notification issued vide SO 3518(E) dated 23/11/2016, 7(ii) (a) in EIA Notification, 2006 recommends that PP has to carryout EIA study to ascertain the increase in pollution load however and in place of public hearing as per EIA Notification, 2006, a notice may be given in local two news papers inviting suggestions/objections for this expansion project through regional officer, MP Pollution Control Board, Jabalpur and same should be addressed through EMP with EIA report. PP further submitted that they have started collecting the baseline data from March, 2017. It's being a case of Manganese Ore Mine and falls under B-1 category committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA with following additional TORs:-

1. Approved mining plan to be submitted at the time of EIA Presentation.
2. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
3. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
4. Transportation plan & traffic management plan should be discussed in the EIA report.
5. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
6. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
7. Compliance of earlier EC conditions from MoEF&CC should be obtained and submitted with EIA report.
8. Year wise details of minerals already excavated till date should be submitted with EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
11. Input data of modeling should be addressed in EIA along with this all back up calculation.

12. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
13. Being operative mine, videography of mine and surrounding area should be carried out with aerial view by drone camera and submitted with EIA report.
14. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
15. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
16. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
17. PP would follow environmental extend rules.

PP has submitted the EIA report vide letter dated 24/10/2017, which was forwarded by the SEIAA vide letter no. 1085 dated 30/10/2017.

EIA was presented by the PP and their consultant in the 298th SEAC meeting dated 17/11/2017wherein it was recorded that, during the initial appraising of the TOR compliance it was observed by the committee that neither the PP has submitted MoEF&CC's compliance report of earlier EC conditions with the EIA nor carrying the same at the time of presentation. Committee deliberated that being this is the case of underground mining where critical issues such as mine water discharge, subsidence, illumination, ventilation etc are involved hence compliance of earlier EC conditions is must to know the status of various mining activities and environmental safeguards taken by the PP till date. Thus committee asked PP to submit the compliance report of earlier EC conditions duly verified by the MoEF&CC for further consideration of the project.

For EC compliance report, PP submitted vide letter dated 17/11/2017 that they have requested MoEF&CC long back and submitted all the desired informations but till dated compliance report is not issued by the central ministry. As per recent circular of MoEF&CC issued vice letter no. J-11013/6/2010-1A II (Part) dated 07/09/2017, PP requested to write a letter to regional office of MoEF&CC for submission of EC compliance report within 30 days form Secretary, SEAC.

PP vide letter no.21 dated 30/06/2018 has submitted the EC compliance of this project which was placed before the committee in 325th SEAC meeting dated 20/08/2018, wherein it was recorded that: The EIA was presented by the PP and their consultant wherein during presentation and discussion committee asked PP to submit following information as it's a case of underground mine:

1. Geo Mining plan shall be drawn of vertical section and to be submitted by the PP.

2. Details of the Ventilation fan and its relevant details.
3. Roof support plan shall be provided.
4. Copy of the disaster management plan.
5. Transportation plan of the man and material both.
6. Surface plan with all the surface features.
7. Details of the stoing with layout alongwith consumption plan.
8. Details of the plantation (8000 plants) with species and their number.
9. Test report of water quality analysis.
10. Subsidance records as per subsidence plan.
11. Details of the rain water harvesting.
12. Mine water pumping plan.
13. Electrical layout plan and its conservation details.

This case was scheduled for the query reply presentation and discussion which arises in 325th SEAC meeting dated 20/08/2018, wherein neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and in case the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

(Dr. Mohd. Akram Khan)
Member

(Dr. A.K. Sharma)
Member

(Prashant Shrivastava)
Member

(Dr. R. Maheshwari)
Member

(Sonal Mehta)
Member

(Dr. J.P. Shukla)
Member

(Mohd. Kasam Khan)
Chairman

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions:

Annexure- 'A'

Standard conditions applicable to Stone/Murrum and Soil quarries:

1. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA
4. Transportation of material shall be done in covered vehicles.
5. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
6. Curtaining of site shall be done using appropriate media.
7. The proposed plantation should be carried out along with the mining @45 trees per hectare and PP would maintain the plants for five years including casualty replacement.
8. Transportation shall not be carried out through forest area.
9. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat.
10. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
11. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
12. NOC of gram panchayat should be obtained for the water requirement.
13. PP should also maintain a log book containing annual details of tree plantation and causality replacement.
14. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
15. Mining should be done as per the submitted land use plan submitted by PP.

Annexure- 'B'

Standard conditions applicable for the sand Mine Quarries*

1. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.

2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Plantation shall be carried out on the banks for stabilization of the banks.
5. The mining activity shall be done manually.
6. No heavy vehicles shall be allowed to enter the river bed and the transportation of the sand from the excavation pits of the leased area to the loading point shall be through trollies (tractor trollies) and not by heavy vehicles. Only registered tractor trollies which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
7. NOC of gram panchayat should be obtained for the water requirement.
8. Transport vehicles will be covered with taurpoline to minimize dust/sand particle emissions.
9. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
10. No Mining shall be carried out during Monsoon season.
11. The depth of mining shall be restricted to 3m or water level, whichever is less.
12. No in-stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
18. EC will be valid for mine lease period subject to a ceiling of 5 years.
19. Mining should be done as per the submitted land use plan submitted by PP.

Annexure- 'C'

Standard conditions applicable for the Khodu Bharu sand Mine Quarries*

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.

4. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
5. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
6. The mining activity shall be done manually.
7. Heavy vehicles shall not be allowed for removal of sand.
8. The sand shall be transported by small trolleys up to the main transport vehicle.
9. Transport vehicles will be covered with taurpoline to minimize dust/sand particle emissions.
10. No Mining shall be carried out during Monsoon season.
11. PP shall take Socio-economic activity in the region through the 'Gram Panchayat'.
12. NOC of gram panchayat should be obtained for the water requirement.
13. EC will be valid for mine lease period/mine plan subject to a ceiling of 5 years.
14. The mining shall be carried out strictly as per the approved mining plan.

Annexure- 'D'

General conditions applicable for the granting of TOR

1. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
2. An inventory of flora & fauna based on actual ground survey shall be presented.
3. Risk factors with their management plan should be discussed in the EIA report.
4. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
5. The EIA document shall be printed on both sides, as far as possible.
6. All documents should be properly indexed, page numbered.
7. Period/date of data collection should be clearly indicated.
8. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
9. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
10. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
11. Grant of TOR does not mean grant of EC.
12. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
13. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The

consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.

14. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
15. All the necessary NOC's duly verified by the competent authority should be annexed.
16. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
17. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
18. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
19. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
20. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
21. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
22. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

FOR PROJECTS LOCATED IN SCHEDULED (V) TRIBAL AREA , following should be studied and discussed in EIA Report before Public Hearing as per the instruction of SEIAA vide letter No. 1241 dated 30/07/2018.

23. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
24. Detailed analysis of availability and quality of the drinking water resources available in the block.
25. A study by CPCB of the methodology of disposal of industrial waste from the existing industries in the block, whether it is being done in a manner that mitigate all health and environmental risks.
26. The consent of Gram Sabha of the villages in the area where project is proposed shall be obtained.