

The 306th meeting of the State Expert Appraisal Committee (SEAC) was held on 27 January, 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. Jai Prakash Shukla, Member.
5. Dr. R. Maheshwari, Member.
6. Shri. A.A Mishra, Secretary.

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

1. **Case No. - 5394/2016 M/s Medicare Environmental Management Pvt. Ltd, 403, 4th Floor, BPTP Park Centra, Sector-30, NH-8, Gurgaon, Haryana – 122001 Common Biomedical Waste Treatment Facility (Plot No. - 15 & 17) at Village - Manera, Teh.- Niwas, Distt. - Mandla, (M.P.) Cat. - 7(d) Common Biomedical Waste Treatment, Storage and Disposal Facilities. (TSDFs).For-EIA Presesntation.Env. Consultant- Ramky Enviro Services Pvt. Ltd. Hyderabad.**

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.

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M/s Medicare Environmental Management Private Ltd are proposing a Common Bio Medical Waste Management Facility at Mandla, M.P with an area of 4000 sqm. The proposed project is Common Bio-medical Waste Treatment facility of Bio Medical Waste collected from the various health care establishments/unit generating bio medical wastes. Facility includes Incinerator, Autoclave, Shredder, Storage and Effluent Treatment Facility.

Sl.no	Parameters	Description
1	Project Proponent	M/s. Medicare Environmental Management Pvt.
2	Brief description of nature of the project	Biomedical waste is generated from all health care institutions; nursing homes, clinics, dispensaries, veterinary institutions, animal houses, pathological laboratories, blood banks etc. A Common Bio-medical Waste Treatment Facility is a set up where bio-medical waste, generated from a number of healthcare units, is suitably treated as per the prescribed procedure & norms laid down in the regulation. Proposed project of setting up of the Common Bio- medical Waste Treatment Facility at Plot no. 15 & 17, Industrial area IGC, Village – Maneri, Tehsil- Niwas, District- Mandla, State - Madhya Pradesh. The extent of proposed project is 4000 sqm land.
Salient Features of the Project		
3	Proposed plant capacity	The project is aimed to cater 20,000 beds - @ 0.16-0.2 kg/day/bed = 3.2-4 TPD
4	Total Plot Area	4000 sqm
	Location	Plot no. 15 & 17, Industrial area IGC, Village – Maneri, Tehsil- Niwas, District- Mandla, State - Madhya Pradesh.
5	Water requirement	Water requirement for the proposed CBWTF project is 50 KLD.
6	Source of water	Water requirement will be met through bore wells & water tankers
7	Wastewater	Waste water generated from the treatment of Biomedical waste during autoclaving, washing of floors, etc. is 115 KLD and it shall be treated in effluent treatment plant.
8	Man Power	During Construction phase, the labors and workers will be hired from nearby villages. Total 35 persons are proposed to hire for plant operations including officers, skilled and unskilled workers.
9	Electricity/ Power requirement	DG set of 100 KVA is proposed for the project and lines will be taken from the Madhya Pradesh State Electricity Board (MPSEB).
10	Total Project Cost	Project cost is Rs. 10 Cr

The proposed treatment facilities at the site are, Bio Medical Waste Segregation, Autoclave, Shredding and Incineration. The project is aimed to cater the needs of the Bio Medical waste generation units in the nearby Health Care Units of M.P state with an approximation of 20,000 beds@0.16-0.2kg/day/bed equals to3.2-4 tons per day.

The primary purpose of incineration is to burn the waste to ashes through a combustion process. Medicare intends to setup a 4.0T/Day incinerator. The unit shall be a dual chambered incinerator. The purpose of autoclave is to sterilize/dis-infect the waste with steam. Microorganisms which contribute to infection do not survive beyond 80°C. However, as a precaution MoEFCC has stipulated a temperature of 121°C with 15 psi pressure to ensure distribution of temperature. The total water requirement including makeup water for the proposed facility is 50 KLD and waste water generation would be around 115 KLD, the waste water generated will be treated in ETP.

The power required for the facility will be fetched from Madhya Pradesh State Electricity Board (MPSEB). For emergency backup DG is maintained with optimal usage by using a High Speed Diesel with a capacity of 100 KVA.

Earlier this case was scheduled in 282nd SEAC meeting dated-10/10/2016 wherein it was observed that: The case was presented by the PP and their consultant wherein 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 for distances from National Parks/ Sanctuaries and Forest area.
- b. Justify in EIA report, how unit will remain zero discharge.
- c. Disposal plan of autoclaved material should be discussed in the EIA report.
- d. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.
- e. In the EIA report, PP should provide the type of industries existing in the area with the list of MP AKVN Jabalpur.

PP has submitted the EIA report vide letter dated 03/04/2017 which was forwarded by the SEIAA vide letter no. 143/SEIAA/17 dated 07/04/2017.

The case was presented by the PP and their consultant in 289th SEAC meeting dated: 28/4/2017 wherein PP requested for the exemption from the public hearing which was to be conducted as per the TOR approved to the PP in the 282nd SEAC meeting dated-10/10/2016. During discussion PP informed that as per the MoEF&CC OM dated 10th December, 2014 this project is located in industrial area IGC, Village – Maneri, Tehsil- Niwas, District- Mandla, State - Madhya Pradesh and this industrial area was notified prior to 2006 and thus does not require public hearing but could not put up any proof in support of their submission before the committee for consideration. Thus committee after deliberations decided that PP should either

provide documentary evidence in support of seeking exemption or carryout public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

PP and their consultant presented the EIA for **Common Biomedical Waste Treatment, Storage and Disposal Facilities (CBWTF)** before the SEAC in this meeting. The submissions and the presentation made by the PP and his consultant revealed following:

1. Name of the project & its location:

Common Bio-Medical Waste Treatment Facility at Khasra No. 15 & 17, Industrial Growth Centre (IGC), Maneri village, Mandla district, Madhya Pradesh.

2. Name of the Company, Address Tele No. & E-mail:

M/s. Medicare Environmental Management Pvt. Ltd.

403, 4th Floor, BPTP Park Centra, Sector-30,

NH-8, Gurgaon, Haryana-122001.

Tele No. 9971693775

E-mail: sanjayprakash.garg@ramky.com

3. Latitude and Longitude of the project.

Latitude: 23° 06' 41.82" N; Longitude: 80° 13' 12.97" E

4. If a Joint venture, the names & addresses of the JV partners including their share.

Not Applicable

5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.

S.No.	Parameters	Description
1	Nature of Proposal	New
2	Area	1 acre
3	Category of Project	7 (da) Bio-Medical Waste Treatment Facilities.
4	Proposed capacity of plant & equipments.	The proposed project has been designed to treat up to 5 tons of bio-medical waste per day. Proposed Equipment Incinerator- 5 TPD (250 kg/hr) Autoclave – 2 TPD (430 litres/batch) Shredder- 150 kg/hr
5	Nearest Highway	National Highway 12A is 15 km SW.
6	Nearest Railway Station	Jabalpur Junction, 29 km NW

7	Nearest Airport	Jabalpur Airport, 19 km NW
8	Nearest Town/City	Jabalpur approx. 26 km NW

6. Cost of the project.

The proposed project cost is Rs. 10 Crores

7. Whether the project is in Critically Polluted area.

Not Applicable. The proposed project does not falls under critically polluted area.

8. If the project is for EC under EIA Notification, 2006

a) For the first time appraisal by EAC

(i) Date of ToR

(ii) Date of Public Hearing, location

(iii) Major issues rose during PH and response of PP

b) Second appraisal

(i) Date of first /earlier appraisal – 28th April 2017

(ii) Details of the information sought by the EAC with the response of the PP.–EAC asked to conduct Public hearing and upload the final EIA report along with Public Hearing proceedings and action plan.

TOR date: 30-11-2016

Date of public hearing: 06-09-2017

9. If the project involves diversion of forest land

(i) Extend of the forest land

(ii) Status of forest clearance.

Not Applicable. The proposed project does not involve in diversion of forest land.

10.If the project falls within 10 km of eco- sensitive area

(i)Name of eco- sensitive area and distance from the project site

There is no ecological and otherwise sensitive areas viz. wildlife sanctuary, national parks, archeological important areas within 10 km radius of the project site. There are no known rare, endangered or ecologically significant animal and plant species. Except for a few wild species of plants and grasses and a few animals that are very commonly spotted in any rural environment, the study area does not have any endangered or endemic species of animals. Due to the development of green belt at the project vicinity the impact on the ecology will be minimal.

(ii) Status of clearance from National Board for wild life.

Not Applicable.

11. Waste Management

(i) Water requirement, source, status of clearance

The total water requirement for the proposed facility is 32 KLD. The primary source of water will be from M.P. Audyogik Kendra Vikas Nigam (Jabalpur), Ltd., however alternatively water will be drawn from bore wells within the site if possible or else by external water tankers.

(ii) Waste water quantity, treatment capacity, detail

The wastewater generation will be 110 KLD and wastewater generated will be treated in in-house ETP of capacity 120 KLD.

(iii) **Recycling / reuse of treated water and disposal**

The treated water shall be reused in APCDs, greenbelt, etc. The facility shall be developed as Zero Liquid Discharge (ZLD) system. No treated wastewater shall be let out of the premises of the proposed CBWTF.

(iv) **Solid Waste Management**

The solid waste generated during construction phase is being predominantly inert in nature. Hence maximum effort would be made to reuse and recycle them. The most of the solid waste material can be used for filing/ levelling of low-laying areas within the site else local body or a private company may be arranged to provide appropriate number of skip containers/ trolleys on hire.

During operation phase solid wastes shall be generated in the form of Incineration ash from Incinerator, ETP sludge from ETP process and used oil from the plant utility. Following steps shall be taken:

- Incineration ash from incinerator will be temporarily stored at ash storage pit and finally it will be disposed to the nearest authorized TSDF site.
- Incineration ash and ETP sludge will be sent to authorized TSDF site
- Used oil will be properly stored and it will be re-used as lubricants in the machineries within the premises only.
- Record of solid waste generation and disposal shall be maintained.
- All necessary precautions shall be taken during handling, loading and unloading of solid waste.

(v) **Hazardous Waste Management**

Incineration ash and ETP sludge is hazardous waste in nature same shall be disposed through nearest authorized TSDF operator. No other hazardous waste handling or treatment shall be done in the proposed facility. If any hazardous waste found mixed with bio-medical waste shall be disposed of in compliance with Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

12. Other details

(i) **Noise Modeling with noise control measures for airports**

Not Applicable.

(ii) **Details of water bodies, impact on drainage if any**

Storm water drains shall be provided throughout the facility taking topography into consideration. The storm water drains are connected to rain water collection chamber. The rain water thus collected shall be used for greenbelt, vehicle washing etc., after treatment, if necessary. The facility shall be developed as Zero Liquid Discharge (ZLD) system. No treated wastewater shall be let out of the premises of the CBWTF.

(iii) **Details of tree cutting**

Not Applicable. The construction activity for the proposed project requires clearing of vegetation. No tree cutting involves in the project.

(iv) **Energy conservation measures with estimated saving**

Reduction in usage of traditional light bulbs with Light Emitted Diode (LEDs) means reduction in usage energy consumption. Usage of Solar energy at different locations in the plant like parking light, roadside light etc. will be explored.

(v) **Green belt development (20 % of construction projects and 33 % for others)**

The green belt will be developed for the proposed project in an area of 1320 sq. m (33 %) of the total site area. Greenbelt will be developed all along the boundary and along the roads for reducing the noise levels within the project.

(vi) **Parking requirement with provision made**

Truck parking shall be provided with an area of 147 sq. m.

13. If the project involves foreshore facilities

(i) **Shoreline study**

(ii) Dredging details, disposal of dredge material

(iii) Reclamation

(iv) Cargo handling with dust control measures

(v) Oil Spill Contingent Management Plan

Not Applicable.

14. If the project involves Marine disposal

(i) NOC from PCB in case of marine disposal

(ii) Details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9

(iii) Location of intake / outfall. Quantity,

(iv) Detail of monitoring at outfall

(v) Any other relevant information:

Not Applicable. The proposed project does not involve marine disposal

15. Other information

(i) Investment/Cost of the project is Rs. 10 Crores.

(ii) Employment potential: 35 persons

(iii) Benefits of the project:

The beneficial impact of proposed project on the civic amenities will be substantial after the commencement of project activities. The basic requirement of the community needs will be strengthened by extending healthcare to the community, building/strengthening of existing roads in the area which will help in uplifting the living standards of local communities. The project will create opportunities for employment to the nearby villagers.

16. Date of Ground water clearance:

Not applicable. The primary source of water will be from M.P. Audyogik Kendra Vikas Nigam (Jabalpur), Ltd.

17. Cost of proposed EMP and CSR (with detailed components & proposed activities) with capital cost and recurring cost.**i. Budget of Implementation of Environmental Management Plan**

S. No	Particulars	Capital Cost (Rs) lakhs	Recurring Cost (Rs)* lakhs/annum
1	Air Pollution Control Systems Wet Scrubber, quencher etc.	50	25
2	Effluent treatment plant and soak pit etc		
3	Odor and Noise control measures	10	3
4	Landscaping, Greenbelt development	4	1.2
5	Storm water drains and storage tanks	5	0.5
6	Online Stack monitoring	15	1
7	Ambient Air quality monitoring/ stack monitoring	-	4
8	Ash disposal	-	3
9	Health checkup for employees	0.5	0.5
10	Miscellaneous	2.5	1.0
Total		87 (Rs. 0.87 Crores)	39

*Recurring cost for EMP is Rs. 39 lakhs per annum.

ii. Proposed CSR activities and its budget

S. No	Activities	Details	Frequency/time lines	Yearly Budget allocation (in Lakhs)			Total Amount (in Lakhs)
				1 st Year	2 nd Year	3 rd Year	
1	Health checkups	Health checkup for communities in the nearby villages and distribution of medicines to the needy	Once in every Six months in the core zone and needy villages in the other zones	1.0	1.5	1.5	4.0

S. No	Activities	Details	Frequency/time lines	Yearly Budget allocation (in Lakhs)			Total Amount (in Lakhs)
				1 st Year	2 nd Year	3 rd Year	
2	Installation of Hand pumps	Hand pump & Community Water Filter Units in the nearby villages	Need based	1.0	1.0	1.5	3.5
3	Infrastructure Development of Schools	Donation of computers, note books, other need based education materials, provision of potable drinking water and improving sanitation in local schools	Need based	1.0	1.0	1.5	3.5
4	Construction of Community Toilets	A total of 3 toilets will be constructed for the community use in the needy villages.	1 village will be targeted in a year. The SBM-Rural funding of Rs. 65,000/- for each community toilets will be also mobilized. O&M will be provided for first 3 years.	2.0	2.0	2.0	6.0
5	Improving Waste collection/management infrastructure in Hospitals	In PHCs and PHSCs	Need based	1.0	1.5	1.5	4.0
6	Income Generation Training programs	For nearby villagers – Women empowerment initiative for	Half yearly	0.5	0.5	0.5	1.5

S. No	Activities	Details	Frequency/time lines	Yearly Budget allocation (in Lakhs)			Total Amount (in Lakhs)
				1 st Year	2 nd Year	3 rd Year	
		SHGs					
7	Merit Scholarships for students	For employee children and others studying in the nearby schools	Once in a Year	1.0	1.0	1.0	3.0
8	Veterinary camps and Para-Vet Services	For cattle and domestic milch animals in the nearby villages	Once in a Year	0.5	0.5	0.5	1.5
9	Creation of Community Assets	Renovation of Community Centres, parks, playgrounds, library, bus shelters and other public utilities in needy villages	Need based	1.0	1.0	1.5	3.5
10	Encouraging rural sports/events	Organizing Sports meets/competitions for the youth in the nearby villages	Once in a Year/ Need based	1.0	1.0	1.0	3.0
Grand Total				10.0	11.0	12.5	33.5

18. Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions.

The green belt will be developed for the proposed project in an area of 1320 sq. m (33 %) of the total site area.

i) Allocation, Number of plantation and Budgetary Provision for Greenbelt

Description

Area allocated	
Along the Boundary	730 m ² (243m*3m)
Along the Road	248 m ² (124m*2m)
Open spaces	342 m ²
No. of Plants to be planted	
Along the Boundary	45 Trees & 120 Shrubs
Along the Road	40 Trees
Open spaces	40 Trees & Shrubs
Plantation Schedule	
Construction Phase –Along the Boundary	45 Trees & 120 Shrubs
Operational Phase – Along the Road and Open spaces	40 Trees, 40 Trees & Shrubs
Budget Allocated	
Capital Cost	Rs. 4 lakhs
Recurring Cost	Rs. 1.2 lakhs

During presentation it was submitted by the PP that the proposed site is located in Industrial Area and the proposed project has been designed to treat up to 5 tons of bio-medical waste per day with following proposed facilities:

- Incinerator - 05 TPD (250 kg/hr)
- Autoclave - 02 TPD (430 litres/batch)
- Shredder - 150 kg/hr.

It was also observed by the committee on perusal of the case file that SEIAA vide letter no. 1384 dated 15/12/2017 has forwarded the complaint letter from M/s Elite Engineers 48, Narmada road, Jabalpur-482001, for Issues related to establishment of a New CBWTF at Village - Manera, Teh.- Niwas, Distt. - Mandla, (M.P.) against the Guide line of CPCB. In the said complaint it was mentioned that a new CBWTF is being developed at in Industrial growth Center Maneri, District- Mandla, M.P. which is just at 40 kms distance from the existing CBWTF which is violation of the CPCB Guide lines and the BMW Rules of 2016. PP submitted that this facility is being developed as per the BMW Rules,2016 & the Guidelines published by the CPCB and land has been allotted by MPAKVN, Jabalpur in the name of M/s Medicare Environmental Management (P) Ltd., . PP further submitted that as per BMW Management Rules, 2016 subrule 03 it is clearly mentioned that “ No occupier shall establish on-site treatment and disposal facility, if a service of common biomedical waste treatment facility is available at a distance of seventy five kilometers”. PP informed that this is a Common Biomedical Waste Treatment and Disposal Facility not an individual onsite treatment facility and they have carried out the gap analysis study of the area and based on the inventorization of all the existing govt. medical hospital facilities from all the 8 districts an estimation of around 6,446 hospital beds were available for providing medical

facilities. In addition to the govt. hospitals there are large number of private medical treatment centres situated in all the eight districts. By considering a ratio of govt. of private hospital to be around 1:1.5, the number of private hospital facilities available in all these surrounding districts is estimated to be around 9,669. Hence, the total medical hospital facilities considered (govt. & private) are around 15,115 for the proposed BMW facility. PP further submitted that the authorization issued by the Board to M/s. Elite Engineers Jabalpur is only for the 7605 beds while as per our inventorization there are 15,115 beds available and thus another facility can exist.

After detail discussion, committee has asked the PP to submit the following information:

- (i) PP has to provide correct co-ordinates of the site as well as the co-ordinates of sampling site as there is difference in co-ordinates mentioned in PFR and EIA report.
- (ii) Revised details of transportation, capacity of vehicles, time schedule and number of stand-by vehicles on route map to be submitted by the PP.
- (iii) Complete Operational Management Plan of the project i.e their responsibility of the employees.
- (iv) DFO certificate submitted is signed by the Range Officer while as per the SEIAA OM it should be signed by DFO thus committee asked PP to submit the certificate which is signed by the DFO.
- (v) Complete ETP drawing & design with their sizes corresponding to the requirement of the project should be submitted by the PP as same are missing in the EIA report.
- (vi) Emergency plan to be submitted by the PP.
- (vii) Revised plantation scheme as suggested by the committee during presentation.
- (viii) In case there is an accident on road of the vehicle carrying BMW, how such situation will be tackled.
- (ix) Commitment from the PP that they will install new incinerator and no re-handled/old incinerator will be installed at this site.

2. Case No.-5266/2016 Shree Banshiwale Stone Crusher, Gwalior, MP – 474001. Prior Environment Clearance for Metal Stone Deposit in an area of 32.280 ha. (4,33,403 cum/year) at Khasra no.-865 Village-Gundhara, Tehsil - Gwalior, Dist. Gwalior (MP) Cat. 1 (a) Mining.FoR – EIA Presentation. Env. Consultant - Creative Enviro Services, Bhopal (M.P.)

This is case of Metal Stone Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-865, Village-Gundhara, Tehsil - Gwalior, Dist. Gwalior (MP) 32.280 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. Nil, dated: Nil, has reported that there are no more mines operating or proposed within 500 meters around the said mine.

Environment setting

Particulars	Details
Locations	
Village	Gundhara
Tehsil	Gwalior
District	Gwalior
State	MP
Nearest National/state Highway	Gwalior- Mau Road - 10.50 km - W
Nearest Railway Station	Gwalior - 30 Km - SW
Nearest Airport/ Airstrip	Gwalior - 30 Km - SW
Nearest Tourist Place	None within 10km radius
Archaeological Important Place	None within 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10 km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sirsod RF -2.5 km -SW Phusawali RF -1.5 km - S Devgarh RF - 7.15km - S
Nearest major city with 100000 population	Nil
Nearest village	Gundhara - 0.25 km - N
Nearest Town	None within 10km radius
Physiographic	Hilly
Elevation	218- 195M
Slope	Radial
Nearest River	Vaisali Nadi - 7.25km - WSW Bhadauna Nadi - 8.0km - W
Nearest nalla/ pond/canal	Local Nalla - 0.50km - W Local Nalla - 4.75km - S Village Pond - 0.20km - N
Nearest hill/valley	None within 10 km radius
No. of mine located with 500m radius	None
Elevation	Highest - 218m RL Lowest - 195m RL
Surrounding features	North – Waste land followed by habitation South – Agricultural land East- Agricultural land West – Agricultural land followed by Village road.

Salient feature of the lease area

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	32.280 ha
Mineable area	30.1650ha
Existing Pits & Quarries	Nil
Existing Dumps	Nil
Existing backfilled area	Nil
Infrastructure and road	Nil
Plantation	Nil
Total geological Reserve	6578744 cubic meter
Total Movable Reserve	5726604 cubic meter
Method of mining	Semi- mechanized
Ultimate Depth of Mining	10m bgl (185m RL)
Expected Life of Mines	13 years
Stripping Ratio	1:0.2
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	30.1650 ha
Area to be reclaimed till conceptual period (By Backfilling)	Nil
Area to be rehabilitated by afforestation in conceptual period	4.20 ha
Area to be covered under water reservoir	28.00 ha
Ground water table	
Post monsoon	30m bgl (165m RL)
Pre monsoon	35m bgl (155 m RL)
Production per day (M ³)	1445
Truck per day (14M ³)	103
End user of mineral	Infrastructure and development project, road project

GEOLOGY OF THE MINE

Geology and deposit appraisal	
Area	32.280 ha
Lithology	Weathered siliceous loamy lateritic soil and murum: 1.5-2.0m (average) Metal stone/Boulder stone – 33m avg. Color- Grey to dark grey, Black Granularity – Medium grained Hardness- 5-6

Average thickness of Metal stone /Boulder Stone	33 m avg.
Recovery of reserves	98 %
Geological reserve (G2) category (90% recovery)	6447198 cube meter
Mineral resource (ore blocked in Barrier zone in cube meter)	455994 cube meter
Mineral resource (maintaining the benches slope)	264600 cube meter
Probable Mineral Reserve	5726604 cube meter
Prefeasibility Mineral Resource (total block mineral)	720594 cube meter
Proposed Production	433403 cube meter
First five year production	2047860 cubic meter
Balance reserve after SOM period	3678744 cubic meter
Hence mine life (5+balance reserve/ Production)	3678744 / 433403 cube meter = 8.48+5 = 12.48 say 13 Year
Height of bench and no.	1m -5m and 7 benches
Haul road gradient	1:16

Post land use plan

Items	At present	At the end of SOM	At the end of conceptual period
Total lease area	32.280 ha		
Mineable area	30.1650 ha		
Ultimate depth of mining		10m bgl (185mRL)	10m bgl (185mRL)
Ultimate pit slope		45 °	45 °
Area under dumps	Nil	Nil	Nil
Area under pits	Nil	11.7776 ha	30.1650 ha
Area to be reclaimed	Nil	Nil	Nil
Infrastructure & Road	Nil	0.01 ha	Nil
Plantation	Nil	1.0ha	4.20ha
Water body	Nil	5.0ha	28.00 ha

The case was presented by the PP and their consultant in the 41st SEAC-II meeting dated:26/07/2016 and during presentation it was observed that the total area of lease is > 25 ha thus it was decided to consider this case as B-1 and committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs:-

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.

PP has submitted the EIA report vide letter dated 02/01/18. Which was forwarded by SEIAA to SEAC vide letter no. 1472 dtd. 05/01/18.

P.P and his consultant presented the salient features of the project, EIA, baseline data and the proposed EMP before the committee.

1. During the Presentation it was reported that the mine is on small hillock having 23 mt elevation difference.
2. Mine is surrounded by the agricultural land, habitation (250 mtr) and village pond (200m).
3. Reserve detail has been discussed which is as per the approved mining plan. Geo technical details were also discussed and considering proposed bottom area of the ultimate pit
4. As reported that water table is around 30-35 mt BGl and ultimate depth is proposed 10 mtrs.
5. PP has proposed to develop two row plantation along the village road and pond.

Details of Conceptual Pit

Period	Pit no.	Average surface area -ha	Average bottom area -ha	Average Depth- m	No of bench from tom	Bottom RL of the area
SOM period	Pit- A	11.7776	7.2539	33	6-7	185m
CP	Pit -A	30.1650	22.3526	33	6-7	185m

Mining Method

- Proposed mining activity will be carried out by open cast semi-mechanized method of mining and using of hand tools such as spades, chisel, hammer and excavator (poclain and JCB machines etc.)
- Following machineries will be deployed for proposal period for metal stone quarrying.
Excavator Machine (Poclain & JCB : One each
Dumper : 3 No.
JH/WD : One each
Shovel : 04 no.
Chisel, hammer, pans, road: sufficient quantity
- During the SOM period, one development and seven production benches with height of 1-5.0m will be develop up to 185m RL.
- During the proposed SOM period about 11.7776ha area will be excavated and at the end of conceptual period about 30.1650ha area will be developed.
- Method of mining confined within the ultimate pit limit (7.5m) and mine life is 13 years.

ENVIRONMENT IMPACT & MANAGEMENT: Ecology: Stage Wise Cumulative										
REQUIREMENTS OF PLANTS FOR AFFORESTATION/RECLAMATION										
Year	Unworked area green belt		Outside dumps (reclaim area)		Bench of Pit		Inside dump		Total	
	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees
Existing	Nil	Nil	-	-	-	-	-	-	-	-
1 st to 5 th	2.035	4000	-	-	0.80	1600	-	-	2.80	5600
6 th to CP	-	-	-	-	1.3650	2800	-	-	1.3650	2800
Total	2.035	4000	-	-	2.1650	4400	-	-	4.20	8400

Time Bound Plantation Programme		
Year	Area	Number of Plants
1 st	1.0ha + 900m (Road side)	2000 + 360 = 2360
2 nd	0.50 ha	1000+360 = 1360
3 rd	0.535ha	1000
4 th	0.40	800
5 th	0.40	800
6 th to cp	1.3650	2800

Total	4.20+900	8400+720
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BUDGET FOR PLANTATION

Budget Allocation for Plantation				
S. No.	Head	Qty	Rate (Rs.)	Amount (Rs.)
	Within lease area			
1 st	Saplings, with related work	2000	250/-	5,00,000/-
2 nd	Saplings, with related work	1000	250/-	2,50,000/-
3 rd	Saplings, with related work	1000	250/-	2,50,000/-
4 th	Saplings, with related work	800	250/-	2,00,000/-
5 th	Saplings, with related work	800	250/-	2,00,000/-
6 th to CP	Saplings, with related work	2800	250/-	7,00,000/-
	Total	8400		21,00,000 /-
	Along the transport road			
1 st year	Saplings, with earth work and pesticides and tree guard	360	355/-	1,27,800/-
2 nd	Saplings, with earth work and pesticides and tree guard	360	355/-	1,27,800/-
	Total	720		2,55,600
	Grand total	9120		23,55,600

SOCIO-ECONOMIC ENVIRONMENT

SN	Plan	Activity	Place of activity	Budgetary provisions (Rs in lakh) per year	
				Capital	Recurring
1.	Promotion of quality education	A) Computer education: providing at least 02 computers in nearby school i.e. Gundhara and providing facilities of teacher for computer education and basic education. (B) Providing room for computer lab	Nearby Village School (02no.) Computer @ Rs. 30,000 Teacher @ Rs. 10000/month. Need based support for building repairing, toilets, fresh water supply etc through Gram Panchayat / Gram Sabha	0.60 1.00	1.20
2	Provision of street Solar light	5 no. of Solar street light provide to nearby villages i.e. Gundhara, Jiganiya, Gumara ka Chak, Kripalpur, Muhammadpur	12 months	2.00	0.50
3	Free medical	Medical Checkup facility, first aid	Quarterly		2.00

	camp	and other welfare activities for nearby villagers			
4	Drip Irrigation facility at nearby villages	Motivation and financial assistance to the framers of nearby villages for drip irrigation Gundhara, Jiganiya, Gumara ka Chak, Kripalpur, Muhammadpur	Yearly	2.00	1.00
5.	Provision of community toilet facility at village	Toilet facility provide with water tank and its maintenance at nearby villages Gundhara, Jiganiya, Gumara ka Chak, Kripalpur, Muhammadpur (Two toilet each for man and women)	Yearly	10.00	2.00
6	Water supply	Drinking water supply with water filter at Gundhara, Jiganiya, Gumara ka Chak, Kripalpur, Muhammadpur	Yearly	5.00	0.50
7	Playground	Development of playground at village Gundhara	One time	2.50	-
8	Provision of fodder plot	To provide land for fodder plot and developed the fodder plot	-	5.00	0.50
			Total	28.10	7.70

Expenditure on 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)	2.50	0.25
Medical Checkup facility, first aid and other welfare activities	2.00	0.50
Total	4.50	0.75

Total Cost (EMP + CSR+ plantation + Monitoring)

Particular	Capital	Recurring
Proposal for over head tank with water spray arrangement and solar pump	10.00	0.50
Sub- Total	10.00	0.50
Plantation (Capital cost) Along the village Road	2.56	-
Maintenance of Plantation (Along the village Road & lease area) @ Rs 45/- per plant	-	1.00
Plantation (Capital cost) within lease area	21.00	

Sub- Total	23.56	1.00
Construction of transportation road and maintenance (0.460km x 7.50m W@742 per sqm WBM road)	25.60	1.80
Mines to PWD Roads maintenance (14.40km@2.0lakh per Km)	-	28.80
Sub- Total	25.60	30.60
Occupational health and safety exp.	4.50	0.75
Total	4.50	0.75
Environmental Monitoring cost	7.00	7.62
Sub- Total	7.00	7.62
Fencing around the lease periphery 2726m@300/-	8.20	1.40
Sub- Total	8.20	1.40
Total	78.86	41.87
CSR cost	28.10	7.70
Sub- Total	28.10	7.70
Grand Total	106.96	49.57

After detail discussion, committee has asked the PP to submit the following information:

1. Commitment for provision of over head sprinkler arrangement and provision of budget for the same in the EMP and slope stability study.
 2. Confirmation by the PP for the provision of bench height of 5.5 mtrs with details of production benches for each year during SOM period.
 3. Budget for alternate Pucca road in EMP as discussed during presentation.
 4. Revised plantation scheme as suggested by the committee during presentation.
 5. Details of arrangements for water availability with necessary support documents.
 6. Inventory of existing trees in the lease area with their name, species and numbers.
 7. Any proposal of tree falling during mining period.
3. **Case No. - 5629/2017 M/s Genex Hotels Private Limited, Green Wood Country Club Parisar, Van Vihar Road, Bhopal, (M.P.) 462003. Prior Environment Clearance for Construction of 4/5 Star Hotel and Convention Center on Khasra No. - 40/3 & 276/3 Total Plot Area – 16194.00 Sq.m., Proposed Built-up Area – 45828.00 Sq.m. For-Building Construction. Env. Con. – In Situ Enviro Care, Bhopal (M.P.) Cat. 8 (a) Building and Construction Projects Reference No. for online tracking of project details-SIA/MP/NCP/ 71968/2017.**

The project proposal is for Building Construction of Total Plot Area – 16194.00 Sq.m Total Built-up Area – 45828.00 Sq.m at Khasra No. - 40/3 & 276/3 at Village - Kotra Sultanabad, District- Bhopal, (M.P.) Category. – 8 (a) Building and Construction Projects. This Case was forwarded by SEIAA to SEAC vide letter no. 1495 dtd. 09/01/18.

The case was presented by the PP and their consultant for Construction of 4/5 Star Hotel and Convention Center before the SEAC and submitted following details regarding the project:

S.No.	Particulars	Details																								
1	Name of the project	Construction of 4/5 Star Hotel and Convention Center																								
	Location:	Khasra No. 40/3 & 276/3 at Village Kotra Sultanabad, Bhopal(M.P.)																								
2	Name of the Company,	GENEX HOTELS PVT. LTD.																								
	Address	Green Wood Country Club Parisar, Van Vihar Road, Bhopal (M.P.)																								
	Tele No.	7898501224																								
	E-mail :	genexhotels@gmail.com																								
3	Latitude and Longitude of the project.	23°12'58.10"N, 77°23'4.01"E 23°12'59.06"N, 77°22'58.01"E 23°12'55.13"N, 77°22'56.58"E 23°12'54.69"N, 77°23'0.82"E																								
4	If a Joint venture, the names & addresses of the JV partners including their share.	It's a land of MP State Tourism Development Corporation and lease has been allotted to Genex Hotels Pvt. Ltd.																								
5	Project brief: nature of proposal (new/expansion,)	New																								
	Total area - land use	Total plot area: 16194.00 Sq.Mt. (1.6194 Hect.) Net Planning Area –14976.17 Sq.mt. (1.4976 Hect.)																								
	Project components	<table border="1"> <thead> <tr> <th>S#</th> <th>Items</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Type Of Building</td> <td>4/5 Star Hotel With Convention Facility</td> </tr> <tr> <td>2</td> <td>Total Land Area</td> <td>16194.00 Sq.Mt.</td> </tr> <tr> <td>3</td> <td>Area Under Road Widening</td> <td>1217.83 Sq Mt</td> </tr> <tr> <td>4</td> <td>Net Planning Area</td> <td>14,976.17 Sq Mt</td> </tr> <tr> <td>5</td> <td>Permissible F.A.R (1:2.5)</td> <td>37440.42 Sq.Mt.</td> </tr> <tr> <td>6</td> <td>Additional F.A.R. Of Road Widening 1217.83 X 2.5 X 2</td> <td>6089.15 Sq.Mt.</td> </tr> <tr> <td>7</td> <td>Total F.A.R. (Permissible)</td> <td>43529.57 Sq.Mt.</td> </tr> </tbody> </table>	S#	Items	Details	1	Type Of Building	4/5 Star Hotel With Convention Facility	2	Total Land Area	16194.00 Sq.Mt.	3	Area Under Road Widening	1217.83 Sq Mt	4	Net Planning Area	14,976.17 Sq Mt	5	Permissible F.A.R (1:2.5)	37440.42 Sq.Mt.	6	Additional F.A.R. Of Road Widening 1217.83 X 2.5 X 2	6089.15 Sq.Mt.	7	Total F.A.R. (Permissible)	43529.57 Sq.Mt.
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		8	a) Proposed F.A.R. (1:1.71) b) Basement 1 C) Basement 2	25628.00 Sq.Mt. 10100 Sq.mt. 10100 Sq.mt.	
			Total Proposed Built up (FAR + Non F.A.R.)	45828 Sq.mt.	
		9	Permissible Ground Coverage (30%)	4492.85 Sq.Mt.	
		10	Permissible Open Area (11%) + Service Area (1%)	1797.0 Sq.Mt.	
		11	Proposed Open Area + Service Area 12%)	1797.00 Sq.Mt.	
		12	Additional Green Area	2556.00 Sq.mt.	
		13	Permissible Height	45.00 Meters	
		14	Proposed Height	43.50 Meters	
		15	M.O.S Front All Sides And Rear	15.00 Meters 7.50 Meters	
		16	Parking Required @ 75 Ecs / Sq.Mt Of Proposed Far	342 Ecs	
		17	Parking Provided In Basements	14580 Sq.Mt./ 416 Ecs	
		18	No. Of Trees	Proposed: 130 Nos.	
		19	Number Of Floors	B1+B2+G+Service Floor + 10 Floors	
		19	Power requirement & Source	1936.1 KW Source: Madhya Pradesh Madhya Kshetra Vidyut Vitran Company Limited	
		20	Power Backup	3 DG sets of 1000 kVA Each	

		21	UPS	2 Nos. 40 KVA
		22	Water Requirement and Source	263 KLD Source:Municipal Water supply
		23	STP ETP	250 KLD 50 KLD
		24	Solid Waste Generated	Domestic Waste 1770 kg/Day Horticulture Waste – 5.39 kg/day E-waste < 1 Kg/Day
		25	Estimated Population (fixed + floating)	4425
		The project involves the Construction of 4/5 Star hotel and Convention Center with 220 Rooms, Convention / banquet facilities of 2700 sqm. (Indoor and Outdoor space), meeting rooms, executive lounge and business center, restaurants (4 nos.), health club & Spa.		
6	Cost of the project	Rs. 10500 Lakhs		
7	Whether the project is in Critically Polluted area.	No		
8	If the project is for EC under EIA Notification, 2006	Yes		
	a) For the first time appraisal by EAC	Yes		
	(i) Date of ToR:	(i) N.A.		
	(ii) Date of Public Hearing, location	(ii) N.A.		
	(iii) Major issues raised during PH and response of PP	(iii) N.A.		
	b) Second appraisal	NO		
	(i) Date of first /earlier appraisal			
	(ii) Details of the information sought by the EAC with the response of the PP.			
9	If the project involves diversion of forest land	NO		
	(i) extend of the forest land	--		
	(ii) status of forest clearance.	--		

10	If the project falls within 10 km of eco- sensitive area	Yes
	(i) Name of eco- sensitive area and distance from the project site,	Van Vihar Gate No. 2: 1.4 KM. (West Direction) Van Vihar Distance from the Center point of the project : 1.95 Km. (West Direction) As per GOI notification: in exercise of the powers conferred by sub-section(1), clauses (v) and (xiv) of subsection (2) and sub-section (3) of section 3 of the Environment (Protection) Act 1986 (29 of 1986), read with sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the <u>Central Government hereby notifies an area to an extent of 100 meters around the boundary of Van Vihar National Park of the Eco-sensitive Zone (hereinafter referred to as the Eco-sensitive Zone).</u>
	(ii) status of clearance from National Board for wild life	N.A.
11	Waste Management	
	(i) Water requirement, source, status of clearance	(i) Approx. 263 KLD Water requirement. Source: Bhopal Municipal Water supply
	(ii) Waste water quantity, treatment capacity, detail	(ii) Total Waste Water Generation: 277 KLD. Treatment capacity: 300 KLD (250 KLD STP+50KLD ETP).
	(iii) Recycling / reuse of treated water and disposal	Recycled water of 225 KLD will be used for Flushing, landscaping & HVAC Makeup

(iv) Solid Waste Management						
SOLID WASTE QUANTIFICATIONS						
Facilities Provided	Waste Generation Norms		Basis of Assumption	Unit		Total Waste Generated (TPD)
Commercial	0.4	Kg/capita/day	CPCB	4425	Persons	1.77
Garden & Open Space	0.003	Kg/Sq m/day	Discussion with Horticulturist	1797	Sq.mt.	0.00539
STP Sludge	0.33	Kg/MLD of wastewater treated	Manual for Sewerage and sewage treatment by CPHEEO	0.3	MLD	0.00009

	Waste Oil	100	Liters/MW/year	Assuming one maintenance per year	3	MW	300
Total Waste Generated (TPD)							1.77549
Total Biodegradable 55 % of total (TPD)							0.9765195
Total Non-Biodegradable 45 % of total (TPD)							0.7989705
Domestic Waste : 1808 kg/Day Horticulture Waste : 5 kg/day E-waste : < 1 Kg/Day							
	(v) Hazardous Waste Management				<ul style="list-style-type: none"> ▪ Spent Oil from Transformer & DG set (approx. 300 l/yr.) is the only hazardous waste generated and will be disposed off as per <i>hazardous waste</i> (Management and Handling Rules). ▪ This spent oil will be carefully stored in HDPE drums in isolated covered facility. This spent oil will be sold to vendors authorized by MPPCB for the treatment of same. 		
12	Other details				(i) N.A.		
	(i) Noise Modelling with noise control measures for airports						
	(ii) Details of water bodies, impact on drainage if any				(ii) No water bodies passing through the project area		
	(iii) Details of tree cutting				Total trees to be cut =12 details given in our conceptual plan		
	(iv) Energy conservation measures with estimated saving				The project planning is under process all standards measures will be taken for the energy conservation. details is given in our conceptual plan		
	(v) Green belt development (20 % of construction projects and 33 % for others)				Proposed Open Area = 1797.00 Sq.mt. Additional Green Area = 2556.00 Sq.mt.		
	(vi) Parking requirement with provision made				Parking Required = 342 ECS Parking Provided = 416 ECS.		
13	If the project involves foreshore facilities				N.A.		
	(i) Shoreline study						
	(ii) Dredging details, disposal of dredge material						
	(iii) Reclamation						
	(iv) Cargo handling with dust control measures						
	(v) Oil Spill Contingent Management Plan						

14	If the project involves Marine disposal (i) NOC from PCB in case of marine disposal (ii) details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9 (iii) location of intake / outfall. Quantity, (iv) detail of monitoring at outfall (v) Any other relevant information:	N.A.
15	Other information (i) Investment/Cost of the project	Rs.105 Crore
	(ii) Employment potential	334 Nos.
	(iii) Benefits of the project	The project involves the Construction of 4/5 Star hotel and Convention Center with 220 Rooms, Convention / banquet facilities of 2700 sqm. (Indoor and Outdoor space), meeting rooms, executive lounge and business center, restaurants (4 nos.), health club & Spa.
16	Date of Ground water clearance:	N.A.
17	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost.	CSR implementation budget would be approximately 2% of the annual average profit of the project.

DESCRIPTION	CAPITAL COST (LAKHS)	RUNNING/MAINTAINING COST (LAKHS/YEAR)
Air		
Construction Phase	1.0	
Operation Phase		0.6
Noise		
Construction Phase (for barriers)	3.0	
Operation Phase (for barriers & plantations)		0.8
Water and Land		
Construction Phase	1.0	
Operation Phase		0.4
Sewage Treatment Plant 250 KLD + Effluent Treatment Plant 50 KLD	30	7.0
Rainwater Harvesting & Storm Water Management	10.0	1.5
Solid Waste Management including Man Power @10	9.6	9.6 + 1.8 = 11.4

employees X 8000.00 Rs. per month X 12 Months & Nagar Nigam Disposal Cost			
Energy			
Lighting		50.0	9.0
Biological			
Landscaping		20.0	3.5
Total		Rs. 124.6 Lakhs	Rs. 34.2 Lakhs / Year
18	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions.		
	Open + Service Area	= 1797 Sq.mt.	
	Additional Green Area	= 2556 Sq.mt.	
	Total No. of Trees proposed with additional plantation area	= 130 Nos.	
	Marginal / Aquatic Planting	= 84 sqm.	
	Turf	= 1720 sqm.	
	Shrubs and groundcover	= 1812 sqm.	
	Trees to be cut	= 12 Nos. (Which are not in prohibited category)	
19	Any river/Nallha flowing near or adjacent to the proposed project. If yes, please give details.	No water bodies passing through the project area Badhbhada Dam: 0.92 KM. (S) Kaliyasot Dam: 3.0 KM. (S) Upper Lake: 3.72 KM. (NW)	

After detail discussion, committee has asked the PP to submit the following information:

1. PP should provide a commitment that no construction activity will be undertaken by them within the 50 meters of the catchment area of upper lake.
2. PP has applied for online for NBWL Clearance as site is approx. 1.2 kms away from the van vihar (a notified PA) and recently MoEF&CC has notified ESZ for this notified PA which is 100 meters from the boundary of the van vihar national park. Thus PP should

submit justification for their statement with the co-ordinates of the site and ESZ co-ordinates of the van Vihar.

3. Commitment from the PP that there is no R & R involved in this project and all the things present in the site as per the Google Image is belongs to PP and are stored for the erection of boundary wall.
4. Proposal for disposal and treatment of HVAC bleed.
5. Drainage pattern of the catchment area with storm water management plan is to be submitted by the PP with a written commitment from the PP that after construction of this Hotel, it will not affects the drainage pattern of the area.
6. Muck management plan is to be submitted by the PP.
7. Inventory of all the 12 trees that will be uprooted and copy of online application filed for seeking permission uprooting those trees.
8. Revised CSR with their budgetary allocations as suggested by the committee.
9. PP has to submit the copy of NOC of fire as during presentation PP informed that they have obtained fire NOC.

PP vide letter dated 27/01/2018 has submitted the reply of above queries which was found satisfactory and acceptable to the committee. Hence the case was recommended for grant of prior EC for Construction of 4/5 Star Hotel and Convention Center on Khasra No. - 40/3 & 276/3 Total Plot Area – 16194.00 Sq.m., Proposed Built-up Area – 45828.00 including basement Sq.m. subject to the following special conditions:

(A) PRE-CONSTRUCTION PHASE

1. Curtaining of site should be carried out to protect nearby habitat.
2. For dust suppression, regular sprinkling of water should be undertaken.
3. PP will obtain other necessary clearances/NOC from respective authorities.
4. Provisions shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc.
5. The housing may be in the form of temporary structure to be removed after completion of the period.

(B) CONSTRUCTION PHASE

6. No construction and development should be carried out within the 50 meters distance from the Upper lake as per the condition stipulated by T&CP vide permission letter dated 20/11/2017.
7. Escavated Muck/slush should be reused in landscaping as per the proposal submitted by the PP.

8. During construction phase, a settling tank should be provided before final discharge of the subsoil seepage water.
9. PPE's such as helmet, ear muffs etc should be provide to the workers.
10. Fire extinguishers should be provided on site during construction period.
11. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
12. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
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 130 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
14. MSW storage area should be provided with sufficient storage capacity and MSW should be disposed off at a designated place in consultation with the local authority. PP should take proper precaution for its disposal as per CPCB MSW guidelines. As proposed, Biodegradable waste should be treated through biocomposter.
15. Land use breakup details as proposed by PP for this facility are as follows:

S.No.	Khasra No.	Area in (Hect.)	Ownership
1.	40/3	0.7284	Genex Hotels Pvt. Ltd.
2.	276/3	0.890	
	Total	1.6194	
S. No.	Particulars		Area in Sq.mt.
A	Land Area		16,194.00 Sq.mt.
B	Area Under Road Widening		1,217.83 Sq.mt.
C	Net Planning Area		14,976.17 Sq.mt.
D	Permissible F.A.R (1:2.5)		37,440.42 Sq.mt.
E	Additional F.A.R. of Road Widening 1217.83 X 2.5 X 2		6,089.15 Sq.mt.
F	Total F.A.R.		43,529.57 Sq.mt.

G	a) Proposed F.A.R. (1:1.71)	25,628.00 Sq.mt.
	b) basement 1	10,100 Sq.mt.
	C) basement 2	10,100 Sq.mt.
	Total Built Up Area + Basement Area	45,828 Sq.mt.
H	Permissible Ground Coverage (30%)	44,92.85 Sq.mt.
I	Permissible Open Area (11%) + Service Area (1%)	1,797.00 Sq.mt.
J	Proposed Open Area + Service Area (12%)	1,797.0 Sq.Mt.
K	Permissible Height	45.00 Meters
L	Proposed Height	43.50 Meters
M	M.O.S	15.00 Meters
	Front	7.50 Meters
	All Sides And Rear	
N	Parking Required @ 75 Ecs / Sq.Mt Of Proposed Far	342 Ecs
O	Parking Provided In Basements	14,580 Sq.Mt./ 416 Ecs

16. Total solid Waste Generation proposed as:

Total Waste Generated (TPD)	1.77549
Total Biodegradable 55 % of total (TPD)	0.9765195
Total Non-Biodegradable 45 % of total (TPD)	0.7989705

17. As proposed, 02 number rain water harvesting pits (size 2.4mx1.5mx1.8m) should be provided and their design should be based on recharge rate study.
18. LED should be preferred over of tube lights.
19. Provision for physically challenged persons tube made so that they easily excess pathway/derive way for their vehicles.
20. PP should explore the possibility of providing solar street light.
21. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

22. Fresh water requirement for the project shall not exceed 263.0 KLD.
23. As proposed, the sewage treatment plant (based on MBBR and UF technology) of 250 KLD capacities and Effluent Treatment Plant 50 KLD (for laundry) of capacity shall be provided for treatment of effluent. No effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained.

24. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
26. Explore waste to energy concept.
27. Mock drill can be performed in a regular frequency of probable incidence scenario.

(D) ENTIRE LIFE OF THE PROJECT

28. PP has proposed Rs. 20.00 lacks as capital cost for Landscaping and Rs. 3.50 lacks/year for recurring expenses in the proposed EMP of this project. The proposed total cost of EMP is 124.60 lacks and recurring cost is 34.20 lacks/year.
 29. Under CSR activity, minimum 02% of the annual profit are proposed in different activities and should be implemented through respective committees.
 30. As proposed, the 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.
 31. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016 and Solid Waste Management Rules, 2016 etc.
 32. 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.
 33. 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.
 34. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
 35. 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. - 5557/2017 Shri Jaikishan Jakhodiya, M/s Jakhodia Minerals, Jakhodia Group 184, Samta Colony, Raipur, (C.G.) Prior Environment Clearance for Capacity Expansion in Iron Ore Beneficiation Plant of M/s Jakhodia Minerals, at Khasra No. 75 & 85 Village - Dhamki, Tehsil - Sihora, Distt. - Jabalpur, (M.P.) Existing Capacity – 19,800**

TPA, Proposed Input – 3,00,000 TPA Output – 2,10,000 TPA. Cat. 2(b) Mineral Benification Projects.

This is an Ore beneficiation project comprising beneficiation of Iron Ore. The project is covered under the provisions of EIA notification as item no. 2 (b), hence requires prior EC from SEIAA. It was reported that, the industry is operational with existing production capacity of 19,800 TPA and proposes an expansion in the production capacity up to – 3,00,000 TPA. Application submitted by the PP was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

The salient features of the project and proposed TOR were presented by the PP and his consultant before the committee wherein during presentation PP submitted that the existing beneficiation plant was accorded environment clearance vide number 889 dated 02.05.2015 for capacity of 19800 TPA for Iron Ore. The existing plant is under commissioning and commercial operation is yet to be started. Now expansion in beneficiation activity is proposed from 19800 TPA to 3,00,000 TPA for Iron Ore, Manganese Ore and Bauxite Ore through physical beneficiation only.

The required Iron (40% grade) ore shall be sourced through captive mine having lease area of 6.88 ha situated at Village-Dhamki, Tehsil-Sihora, Jabalpur (MP) and also from other mines also, if required. The firm will procure Bauxite ore & Laterite having AL₂O₃ 32% + from the self Mines which is in name of Awin Trading Private Limited, Padwar Mines, 30.88 ha situated at Village :- Padwar, Tehsil :- Bahoriband, District :- Katni (MP) and also if as and when required will procure from other mines too. The firm procured Manganese ore having Mn 28 % + from the Mines whose P.L. is granted to one of the sister concern of firm which is Jakhodia Minerals Pvt Ltd, Village -Dhamki, Tehsil :- Sihora, District :- Jabalpur (MP) and also if as and when required will procure from other mines too.

Total land in possession is 1.40 ha of Khasara No. 75 which has been kept for beneficiation activity. The beneficiation plant covers 750 sq. mt. Green belt has been developed with 350 within the premises. Further 0.54 ha of Khasara No. 85 is also in possession, and near to existing owned land. This shall be used for tailing disposal and management.

The present proposal is for setting up expansion in beneficiation activity is proposed from 19800 TPA to 3,00,000 TPA for Iron Ore, Manganese Ore and Bauxite Ore with an estimated cost Rs. 6.37 crore . PP and their consultant presented the case for ToR before the SEAC in this meeting. The submissions and the presentation made by the PP and his consultant revealed following:

Salient Features of the project

S. N0	Particulars	Details
1	Project	To Obtain TOR for Capacity expansion in Fe, Mn and Bauxite ore Beneficiation Plant of M/s Jakhodia Minerals,
2	Khasra number	75 and 85 (Pvt. Land)
2	Total Power requirement for process	400 KVA which will be sourced through Madhya Pradesh Vidyut Vitaran Company Ltd .
3	Total Land available	1.40 ha + 0.54 ha = 1.94 ha
4	Existing Capacity	19,800 TPA
5	Proposed Capacity	3,00,000 TPA (Through Put)
6	Water Requirement	200 KLD
7	Tailing generation	From Fe Ore : 340 TPD From Mn Ore : 550 TPD From Bauxite Ore : 350 TPD
7	Source of Raw water	From mining pit of adjacent captive mine
8	Alternative Source of Power	D.G set of 650 KVA
9	Cost of project	6.37 Crores
10	Cost of Pollution Control Equipments	Approx 10 lakhs
11	Recurring cost for environmental management etc (Proposed)	Estimate will be given in EIA report, which will include O&M cost of CSEME, EQMS, post environmental monitoring cost, plantation cost etc.
12	Number of employment generation	35-40 persons for Operation phase
13	Fund for CSR activities	As per guidelines.
14	Previous Environment Clearance	889/SEIAA/2015, Dated 02/05/2015

- No ecologically protected area or archeologically protected site or other environmental sensitivity has been reported within 10 km radius of the site. Industry has obtained NOC in this regard from DFO
- Industry will cater water requirement through accumulated water from captive mines.

Land break Up:

S. No.	Section	Area (m ²)
1	Total area available	14000
2	Area for Plant	750
3	Water reclamation system & tail removal	1500
4	Lab & ADM block	100
5	Raw ore stock	1500
6	Beneficiation Ore stock	1350
7	Green belt & Road	4900 (3550 + 1250)
	Total Area	14000
8	Tailing Management on Khasra No. 85	5400
	Total Area	19400

Environmental Setting Of Project

Particulars	Details
Locations	
A. Village	Dhamki
B. Tehsil	Sihora
C. District	Jabalpur
D. State	Madhya Pradesh
Toposheet No.	63A/3
Latitude	23°21'52" N - 23°22'05" N
Longitude	80°02'12" E - 80°02'28" E
General ground level	384 mRL
Nearest National/ State Highway	NH-7 – 0.5km - W
Nearest Railway Station	Gosalpur – 2.10 km - NE
Nearest Airport	Jabalpur – 21.0 km
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	Borha RF- 7.25 km - SE
Nearest major city <50000 population	Jabalpur – 16.0 km – SWS
Nearest Town / City within 10km radius	None within 10km radius
Nearest village	Dhamki – 0.20 km - S
Nearest River	Heran River – 4.50 km-NWN Budhsagar Tank- 2.0 km-WSW Barne Reservoir- 9.00 km – ESE Maral Reservoir -7.90km- ESE Barne River - 8.25km - E
Nearest Hill Ranges	None within 10 km radius

After deliberations committee recommended the Standard TOR as stipulated by the MoEF&Cc with inclusion of following additional TOR to be addressed in the EIA / EMP report may be issued:

1. Compliance report for compliance of the conditions of the earlier existing EC has to be furnished after due validation and comments from the concerned Regional Office of MoEF.
2. Ground-water study w.r.t to heavy metals concentration to be furnished.
3. Complete ore analyses to be furnished.
4. Water balance with source of water to be furnished along with the consent / permission for supply of requisite quantum of water from the competent authority.
5. Proposal for 'Zero Liquid Discharge'.
6. Environmentally sustainable disposal of the Tailing residue to be addressed in the EIA report.
7. Mass balance for the solid waste (tailings residue) for entire plant to be presented in the EIA Report.
8. Expenditure made for EMP & CSR during last EC is to be submitted by the PP along with the details of PPEs provided to workers.
9. Health survey report of the workers is to be submitted by the PP.
10. Inventory of all the trees planted by the PP after first EC. Photographs of the existing plantation are to be submitted in the EIA report.
11. Complete details of the Tailing Pond including the lining, dimensions, capacity and proposed locations of peizometers etc.

12. Appropriate Garland drains to be provided around all the heaps in the premises along with the settling / collection tank connected to the garland drains- complete plan to be furnished in the report.
 13. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.
 14. 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.
 15. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
 16. 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.
 17. 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.
 18. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
 19. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.
5. **Case No. - 5630/2017 M/s Hindustan Petroleum Corporation Limited, HPCL Manglia LPG BP, Rahukedi, AB Road, NH-3, Manglia, Indore, (M.P.) 462003 Reference No. for online tracking of project details- SIA/MP/ 21360/2017. Prior Environment Clearance for Proposed LPG Storage Capacity Expansion of LPG Storage at Indore LPG Botling Plant 3X500 MT Capacity Moulded Storage Vessel for liquefied petroleum Gas (LPG Total 1500 MT) at Village -Rahukhedi, AB Road, NH-3, Post - Manglia, , Distt.- Indore, (M.P.)Cat. 6 (b) Isolated Storage & handling of hazardous chemicals. FoR- ToR. Env. Con. – Anacon Labs, Nagpur (M.S.)**

This is a project for Prior Environment Clearance for Proposed LPG Storage Capacity Expansion of LPG Storage at Indore LPG Botling Plant 3X500 MT Capacity Moulded Storage Vessel for liquefied petroleum Gas (LPG Total 1500 MT) at Village - Rahukhedi, AB Road, NH-3, Post - Manglia, , Distt.- Indore, (M.P.) ,Cat. 6 (b) Isolated Storage & handling of hazardous chemicals.

1. **Name of the project & its location:** Storage capacity expansion of HPCL LPG Bottling plant, Indore. The Project site is located at A B Road N-H 3 village Rahukhedi, Post:- Manglia Distt:-Indore (MP)-453771.

2. Name of the Company, Address Telephone No. & E-mail:

Hindustan Petroleum Corporation Ltd, LPG Bottling Plant,

Village: Rahukhedi, Tehsil: Samwer

Distt. Indore – 453771, State: Madhya Pradesh.

Tel.: 09900722302, 08080872246

E-mail: arunknayak@hpcl.in

3. Latitude and Longitude of the project: Precise cartographic location of said project is at 22°50'18.24" N & 75°56'55.16"E.

4. If a Joint venture, the names & addresses of the JV partners including their share: Not Applicable

5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.

Nature of proposal: Expansion

The existing LPG Bottling Plant at Mangalia Industrial Area has enough space within its plant boundary to accommodate the expansion. Thus no change in Land use is envisaged. Activity in preoccupied area only is having expansion provision.

The present setup has a bottling facility spread over area of 34 acres. The nearest villages are Rahukhedi and Lasudiya Parmar situated approximately 0.40 KM and 1.30 KM at south-West and north-East respectively. Some industry is at south-West side of the plant. Agriculture land at North, East and South side of the plant. Agra-Bombay NH-3 Highway at West of the plant.

Devi Ahilya Bai Holkar Airport, Indore is the nearest airport to plant location whereas Indore Railway station is nearest railway junction.

6. Cost of the project: Cost for the proposed expansion project is estimated to be approx. Rs. 31.5 crores

7. Whether the project is in Critically Polluted area: No

8. If the project is for EC under EIA Notification, 2006

a) For the first time appraisal by EAC

(i) Date of ToR: NA, since project is going for TOR for first time.

- (ii) Date of Public Hearing, location : NA
- (iii) Major issues raised during PH and response of PP: NA
 - b) Second appraisal
 - (i) Date of first /earlier appraisal: NA
- (ii) Details of the information sought by the EAC with the response of the PP: NA

9. If the project involves diversion of forest land : No

- (i) Extend of the forest land : NA
- (ii) Status of forest clearance.: NA

10.If the project falls within 10 km of eco- sensitive area

- (i) Name of eco- sensitive area and distance from the project site: NA
- (ii) Status of clearance from National Board for wild life: NA

11.Waste Management

- (i) **Water requirement, source, status of clearance:** The existing water requirement is 17 KL/day. The water requirement is met through 02 nos. bore wells. In summer water requirement fulfilled by water tankers.
- (ii) **Waste water quantity, treatment capacity, detail:** 2 no.'s of septic tank followed by soak pit.
- (iii) **Recycling / reuse of treated water and disposal:** On Green Belt
- (iv) **Solid Waste Management:** solid waste disposed of through CPCB approved vendor.
- (v) **Hazardous Waste Management:** Hazardous (spent oil and paint sludge) waste disposed of through CPCB approved vendor.

12.Other details

- (i) Noise Modeling with noise control measures for airports: NA
- (ii) Details of water bodies, impact on drainage if any : NA
- (iii) Details of tree cutting: some small bushes
- (iv) Energy conservation measures with estimated saving: Solar street lighting system in place in plant.
- (v) Green belt development (20 % of construction projects and 33 % for others): Existing greenbelt is 18%. Same will be increased to 33%.

- (vi) Parking requirement with provision made: Yes. Detailed study will be presented in EIA Report.

13.If the project involves foreshore facilities :

- (i) Shoreline study : NA
- (ii) Dredging details, disposal of dredge material: NA
- (iii) Reclamation : NA
- (iv) Cargo handling with dust control measures: NA
- (v) Oil Spill Contingent Management Plan : NA

14.If the project involves Marine disposal: No

- (i) NOC from PCB in case of marine disposal : NA
- (ii) Details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9: NA
- (iii) Location of intake / outfall. Quantity: NA
- (iv) Detail of monitoring at outfall: NA
- (v) Any other relevant information: NA

15. Other information

- (i) **Investment/Cost of the project-** Rs. 31.50 CRORES
- (ii) **Employment potential-** The proposed expansion project will provide indirect employment to about 20-25 persons during the construction phase and also in transportation during construction phase.
- (iii) **Benefits of the project-**The expansion project being proposed is important in view of the consistent increase of demand of LPG in market. This expansion project is has state as well as nationwide importance for fulfilling fuel requirement of the end users/ consumers of the areas. It helps to reduce the three cutting and decrees CO₂ emission its helps to improve the environment.

16.Date of Ground water clearance: Yet to apply.

17.Cost of proposed EMP and CSR with detailed components and proposed activity: Will be provided in EIA Report.

18. Numbers of Plantation proposed & area allocated for plantation with budgetary provision: Will be provided in EIA Report.

19. Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details: No. Nearest water body i.e. Khan river is 4.9 km, West.

After presentation committee decided to issue standard TOR prescribed by the MoEF&CC for carrying out EIA study with following additional TOR's:-

1. All the safety related aspects should be proposed in the EIA report.
2. A detail of emergency rescue plan is to be submitted in the EIA report.
3. Workers health survey report is to be submitted in the EIA report.
4. Site specific risk assessment study should be carried out and same should be submitted with EIA report with disaster management plan and resique details.
5. Detailed green belt plan with area, name of species and their number should be provided along with the inventory of existing trees in EIA report.
6. Tree failing is also proposed PP should submit the details of area with number of tree, species and permission from the competent authority.
7. Any other area marked for further expansion in this proposed unit should be detailed out on a layout map and submitted with EIA report.
8. Detailed fire fighting arrangements proposed should be discussed in the EIA report.
9. If there is any sensitive area within 05 kms radius of the proposed project site, the proposed safety measures in case of any accident should be discussed in the EIA report.
10. Input and output of modeling data should be annexed with the EIA report.
11. Details of all construction material related to this expansion project should be submitted with the EIA report.
12. Detailed parking facilities wrt to existing capacity and expanded facility should be provided within the facility boundary and detailed traffic management plan should be discussed in the EIA report as no parking will be permitted outside the plant premises.
13. Cost benefit analysis should be carried out and discussed in the EIA report.
14. 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.
15. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.

16. 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.
17. 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.
18. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
19. Pre-dominant wind direction to be ascertained and accordingly the Safety & Environment Management Plans prepared and reported.
20. Details of Environmental Cell & CSR committee.
21. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

6. Case No. - 5585/2017 Plant Manager, M/s Hindustan Petroleum Corporation Limited, HPCL Jabalpur LPG BP, Plot 1&2, Phase II, Industrial Growth Center - Maneri, Tehsil-Niwas, Distt. – Mandla (M.P.) – 481886 Prior Environment Clearance for Storage Capacity Expansion of LPG Bottling Plant at Plot No. 1 & 2 Phase II, Maneri Industrial Area, Mandla (M.P.) Proposed Capacity – 3 X 600 MT, Mounted Storage Vessel for LPG (1800 MT/year), Total Existing Plant Area - 38 Acres,(Existing Capacity – 450 MT of LPG, Bullets 3X150=450 MT (Shall be phase out after commissioning proposed project)Reference No. for online tracking of project Details SIA/MPIND2/19383/2017FoR – ToR. Env. Consultant – Anacon lab. Nagpur (MS) Cat. 6 (b) Isolated Storage & handling of hazardous chemicals.

This Case was forwarded by SEIAA to SEAC vide letter no. 1497 dtd. 09/01/18. The project proposal is to set up LPG Bottling Plant by M/s Hindustan Petroleum Corporation Limited, Plot 1&2, Phase II, Industrial Growth Center - Maneri, Tehsil- Niwas, Distt. – Mandla (M.P.) – 481886 for Prior Environment Clearance for Storage Capacity Expansion of LPG Bottling Plant at Maneri Industrial Area, Jabalpur (Cat. – 6 (b) Project). **(Earlier Case was discussed in 298th SEAC Meeting dated 17/11/2017- Revised Form –I Apply).**

The case was presented by the PP and their consultant in 298th SEAC meeting dated: 17/11/2017 for obtaining TOR wherein following details of the project were submitted by them:

1. Name of the project & its location:
Storage capacity expansion of HPCL LPG Bottling plant. The Project site is located at Industrial Growth Center at Maneri, Jabalpur (MP)-481886.
2. Name of the Company, Address Tele No. & E-mail:

Hindustan Petroleum Corporation Ltd, LPG Bottling Plant, Village: Maneri, Tehsil : Niwas. Distt.: Mandla – 481886, State: Madhya Pradesh. Tel.: 9530903046, 8461022888.

E-mail: lokendergarbyal@hpcl.in

3. Latitude and Longitude of the project.
The exact cartographic co-ordinates of Mandla (Plant Location coordinates) are 23⁰6'6.12" N 80⁰11'54.00"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.

Nature of proposal:- Expansion

The existing LPG Bottling Plant at Maneri has enough space within its plant boundary to accommodate the expansion. Thus no change in Land use is envisaged. Activity in preoccupied area only is having expansion provision. The present setup has a bottling facility spread over area of 38 acres. The nearest villages are Medhi and khairani situated approximately 0.750 KM and 1.60 KM at south and north respectively. Some industry is at surrounding south and east side of the plant The distance between project site & Jabalpur city is 37 KM. The nearest domestic airport is at Jabalpur.

6. Cost of the project. : Cost for the proposed expansion project is estimated to be approx. Rs. 21 crores
7. Whether the project is in Critically Polluted area.- No
8. If the project is for EC under EIA Notification, 2006
 - a) For the first time appraisal by EAC
 - (i) Date of ToR: NA, However Project is for ToR first time.
 - (ii) Date of Public Hearing, location : NA
 - (iii) Major issues raised during PH and response of PP: NA
 - b) Second appraisal
 - (i) Date of first /earlier appraisal: NA
 - (ii) Details of the information sought by the EAC with the response of the PP.: NA

8. If the project involves diversion of forest land : No
 - (i) Extend of the forest land : NA
 - (ii) Status of forest clearance: For NOC application submitted to DFO.

9. If the project falls within 10 km of eco- sensitive area
 - (i) Name of eco- sensitive area and distance from the project site: There is no any eco-sensitive area within 10 KM radius study area, however Reserved forest is (Dense Mix Jungle- 7.55 Km at ES, Parariya- 7.8 km at ES, Bhaundi-6.7Km at S, Bamhni Purva- 8.33 Km at SW, Dense Mix Jungle-5.31Km at N)
 - (ii) Status of clearance from National Board for wild life.: NA

10. Waste Management
 - (i) Water requirement, source, status of clearance: 40KLD, water Sources from AKVN
 - (ii) Waste water quantity, treatment capacity, detail: 2 Nos. of ETP is In place for waste water treatment.
 - (iii) Recycling / reuse of treated water and disposal: On Green Belt
 - (iv) Solid Waste Management: Solis waste disposed through CPCB approved vendor.
 - (v) Hazardous Waste Management: Spent oil and paint sludge disposed through CPCB approved vendor.

- 12 Other details
 - (i) Noise Modeling with noise control measures for airports: NA
 - (ii) Details of water bodies, impact on drainage if any : NA
 - (iii) Details of tree cutting: some small buses.
 - (iv) Energy conservation measures with estimated saving: Details Will be Provided in EIA Report.
 - (v) Green belt development (20 % of construction projects and 33 % for others): Details Will be Provided in EIA Report.
 - (vi) Parking requirement with provision made: Is in placed in Plant Area.

13. If the project involves foreshore facilities : NO
 - (i) Shoreline study: NA
 - (ii) Dredging details, disposal of dredge material: NA
 - (iii) Reclamation: NA
 - (iv) Cargo handling with dust control measures: NA
 - (v) Oil Spill Contingent Management Plan: NA

14 If the project involves Marine disposal: No

- (i) NOC from PCB in case of marine disposal : NA
- (ii) Details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9: NA
- (iii) Location of intake / outfall. Quantity,: NA
- (iv) Detail of monitoring at outfall: NA
- (v) Any other relevant information: NA

15 Other information

- (i) Investment/Cost of the project- Rs. Approx.- 21 crores
- (ii) Employment potential- The proposed expansion project will provide indirect employment to about 20-25 persons during the construction phase and also in transportation during construction phase.
- (iii) Benefits of the project-The expansion project being proposed is important in view of the consistent increase of demand of LPG in market. This expansion project is has state as well as nationwide importance for fulfilling fuel requirement of the end users/ consumers of the areas. It helps to reduce the three cutting and decrees co2 emission its helps to improve the environment.

16. Date of Ground water clearance: Not required, water Sources from AKVN

17. Cost of proposed EMP and CSR with detailed components and proposed activity: Will be provided in EIA Report.

18. Numbers of Plantation proposed & area allocated for plantation with budgetary provision. : Will be provided in EIA Report.

19. Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.: Water body is situated at a distance of 300 meter in east of the project site.: Jhamli river is located in east of the project site at a distance of 1.4 km.

The case was presented by the PP and their consultant 298th SEAC meeting dated: 17/11/2017 wherein PP informed that project involves storage capacity expansion of LPG Bottling Plant and is located in the Industrial Growth Centre, Maneri, Distt: Mandla while it was observed by the committee that in Form-1 submitted by the company the location of the project is shown as Jabalpur. PP submitted that it's a typographical error and project is

actually located in Maneri, District Mandla not in Jabalpur. Committee after deliberations decided that PP may submit revised Form-1 through SEIAA for further consideration of the project. However, on constant request of PP for urgency of the project and public demand, committee recommends that PP can take-up the EIA studies as per the Standard TOR developed by the Minister of Environment, Forest & Climate Change, and New Delhi. The SEAC will have the right and the responsibility of stipulating additional TOR in specific Projects considering its project features and nature of expansion after receiving the revised Form-1.

PP vide letter dated: 11.12.2017 has submitted the Revised Form-I which was being forwarded through SEIAA vide letter no. 1497 dated: 09/01/2018 as per the recommendations of 298th SEAC meeting dated 17/11/2017.

After presentation committee decided to issue standard TOR prescribed by the MoEF&CC for carrying out EIA study with following additional TOR's:-

1. All the safety related aspects should be proposed in the EIA report.
2. A detail of emergency rescue plan is to be submitted in the EIA report.
3. Workers health survey report is to be submitted in the EIA report.
4. Site specific risk assessment study should be carried out and same should be submitted with EIA report with disaster management plan and resiquie details.
5. Detailed green belt plan with area, name of species and their number should be provided along with the inventory of existing trees in EIA report.
6. Tree failing is also proposed PP should submit the details of area with number of tree, species and permission from the competent authority.
7. Any other area marked for further expansion in this proposed unit should be detailed out on a layout map and submitted with EIA report.
8. Detailed fire fighting arrangements proposed should be discussed in the EIA report.
9. If there is any sensitive area within 05 kms radius of the proposed project site, the proposed safety measures in case of any accident should be discussed in the EIA report.
10. Input and output of modeling data should be annexed with the EIA report.
11. Details of all construction material related to this expansion project should be submitted with the EIA report.
12. Detailed parking facilities wrt to existing capacity and expanded facility should be provided within the facility boundary and detailed traffic management plan should be discussed in the EIA report as no parking will be permitted outside the plant premises.
13. Cost benefit analysis should be carried out and discussed in the EIA report.
14. 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.

15. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
16. 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.
17. 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.
18. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
19. Pre-dominant wind direction to be ascertained and accordingly the Safety & Environment Management Plans prepared and reported.
20. Details of Environmental Cell & CSR committee.
21. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

7. Case No. - 5628/2017 M/s RMG Super Mines Pvt. Ltd, 33, Jagaran Bhawan, Press Complex, M.P.Nagar, Bhopal, MP Prior Environment Clearance for Iron Ore, Laterite, Clay & Ochre Mine in an area of 4.54 Ha.. (1,71,689 ton per annum) (Khasra no.93) at Village- Dhamdha, Tehsil - Sihora, Dist. Jabalpur (MP).

This is case of Iron Ore, Laterite, Clay & Ochre Mine. The proposed site is located at (Khasra no.93) at Village- Dhamdha, Tehsil - Sihora, Dist. Jabalpur (MP) 4.54 Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 1499 dated 10/1/2018.

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 if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

8. Case No. - 5496/2017 Shri Shardul Shah, Director India Waste Management Pvt. Ltd, 30, MLA Quarters, Bhadbhada Road, T.T. Nagar, Bhopal, (M.P) – 462003 Prior Environment Clearance for Common Bio Medical Waste Treatment Facility at Plot No. E3, Industrial Area No. –II, Mandideep, Tehsil - Goharganj, Distt.- Raisen, (M.P.) Cat. 7

(da) Common Hazardous Waste Treatment Storage and disposal facilities (TSDFs) (EIA Consultant: M/s Gaurang Environmental Solutions Pvt. Ltd., Jaipur)

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.

PROJECT DETAILS

- M/s India Waste Management Pvt. Ltd. is proposing to establish Common Bio-Medical Waste Treatment Facility near Bhopal in district Raisen to provide cleaner and healthier environment.
- The project Incharge is Mr. Shardul Shah (Director).
- The project site is industrial plot having an area of 2.0006 ha. land is on lease by AKVN to M/s India Waste Management Pvt. Ltd.
- Collection, transportation, storage & treatment of Bio Medical Waste as stipulated in Biomedical Waste Management Rules, 2016 and CPCB Guidelines for installation of Common Bio-medical Waste Treatment Facility.

Project Name	Common Bio Medical Waste Treatment Facility (CBWTF)” of M/s India Waste Management Pvt. Ltd.			
Director	Shardhul Shah			
Project Site	E3 – New Industrial Area No. – II, Mandideep, Tehsil - Goharganj; District –Raisen, Madhya Pradesh			
Project Area	20006.669 sq. mt. 2.0004 Ha.			
	Work Shed	4856.04 sq.m.	24.3 %	
	Staff Rooms & Open Surface	8548.629 sq.m.	42.7 %	
	Green Area	6602 sq.m.	33%	
	Total	20006.669 sq.m.	100 %	
Project	Particular	Capacity	Nos	

Capacity	Incinerator	250 kg/hr.	1
	Autoclave	100 kg/hr. (50 Kg/hr Each)	2
	Shredder	200 kg/hr. (100 Kg/hr Each)	2
	Effluent Treatment Plant	200 KLD	1
	Boiler	2000 kg/hr (1000 Kg/hr Each)	2
Green Belt Area	6602 sq. m. (33%)		
Total Project Cost	Rs. 1018.87 Lakhs		
Power Requirement & Source	1000 KVA Source : MPEB (Madhya Pradesh Electricity Board)		
Power backup	DG Set – 500 kVA		
Water Requirement	Total requirement will be ~75 KLD		
	Floor washing, container washing, incineration etc.	72.00 KLD	
	Domestic Use	3.00 KLD	
	Total	75.00 KLD	
Source of Water	AKVN Source		
Effluent Treatment Plant & disposal	200 KLD capacity ETP Sludge: Disposed through Incineration		
Fuel Requirement	432 KL/Annum of Diesel Source: Nearest Petroleum Depot		
Man Power Requirement	25 Persons		

Nearest Railway Station	Mandideep Railway Station ~6.0 km towards NW direction		
Nearest Airport	Bhopal Airport ~ 37.8 km towards NW		
Coordinates	Latitude	Longitude	
	23° 4'47.62" N,	77°32'21.34"E	
Water requirement	Phase – 1	75 KLD per day	(72 KLD for incinerator; 3 KLD for domestic purposes)
	Phase – 2	44 KLD per day	Total – 119 KLD per day
	Phase – 3	33 KLD per day	Total – 152 KLD per day
	Phase – 4	33 KLD per day	Total – 185 KLD per day
	Phase – 5	75 KLD per day	Total – 260 KLD per day

The Case was earlier discussed in 287th SEAC meeting dated 25/02/2017 wherein it was observed from the Google image based on the co-ordinate provided by the PP that a habitation could be seen approx 75 meters away from the location of the facility (SE side). PP and consultant submitted that this habitat is illegal encroachment and site for facility is being selected as per the Biomedical Waste Management Rules, 2016 and “Revised Guidelines for Common Bio-medical Waste Treatment and Disposal Facilities” published by Central Pollution Control Board in December 21, 2016 wherein it is prescribed in location criteria 6(a) that “A CBWTF shall preferably be developed in a notified industrial area without any requirement of buffer zone” and this facility is located in the Mandideep Industrial Area.

After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TOR’s:

- a. Considering habitation near to the project site (on the SE side), PP will carry out air modeling selecting suitable software and discuss in EIA report where maximum GLC would occur. PP will also submit the exact distance of nearest habitat (on the SE side) from the all four corners of the project location and justify that this CBWTF will not cause any adverse impact on environment and habitation in the vicinity.
- b. Data collection of EIA should be done under the intimation to the M.P. Pollution Control Board, Bhopal. PP may also use the M. P. Pollution Control Board's laboratory for monitoring of air, noise water and soil.
- c. One monitoring location should be fixed in the nearby habitation (on the SE side) for monitoring of air, noise water, soil etc.
- d. Considering habitation near to the project site (on the SE side), PP should provide the details of habitations with sensitive features such as no. of houses, no. of residents and details of other structures such as schools, hospitals, source of water supply etc.
- e. Justify in EIA report considering habitation near to the project site (on the SE side) that the proposed technology is "Best Available Technology" of CBWTF and also how unit will remain zero discharge.
- f. Maximum storage time of Bio-medical waste within the facility and disposal plan of autoclaved material should be discussed in the EIA report.
- g. Monitoring of VOC should be added in the proposed monitoring protocol of EIA study.
- h. Inventory of existing trees with their species and numbers on the proposed site, any tree falling anticipated and proposed plantation scheme.
- i. In the EIA report, PP should provide the type of industries existing in the area with the list of MP, AKVN, Bhopal.

This ToR is in respect of Common Bio Medical Waste Treatment Facility (CBWTF) only excluding laundries proposed in same premises in different phases. However, impact of these laundries should be discussed in detail while presenting worst case scenario. The TOR was issued to the PP vide letter no. 180 dated 28/03/2017.

PP has submitted the EIA report vide letter no. 19/06/17 which was forwarded by SEIAA vide letter no. 829 dated 22/06/2017.

The case was discussed in 294th SEAC Meeting dated 23/06/2017 wherein PP and their consultant were present. During initial discussions Bhopal based committee members informed Chairman that the EIA report of the project was delivered to them yesterday (i.e. 22/06/2017) by the late evening and thus they could not go through the contents of EIA report. Two members from Indore informed that they have not even received the EIA report and thus unable to offer any comments on it. The committee was of the opinion of that EIA report should be made available to members by PP at least 07 days before the meeting so that during appraisal of the case suitable comments / recommendations can be made. PP present during

discussion admits that the EIA report was circulated on 22/06/2017. The committee after deliberations decided that to differ the case for the upcoming SEAC meeting and PP was also instructed to provide a copy of the EIA report to all the members of the committee for further appraisal of the project.

The case was scheduled for the presentation 295th SEAC meeting dated 06th November 2017 but 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. However, PP vide letter dated 03/11/2017 has informed that due to pre occupying activities, they will not be able to present their case in this meeting and requested for its rescheduling in the forthcoming meetings. The committee after deliberations decided that on request of the PP this case should be scheduled in the upcoming meetings of the SEAC.

PP vide letter dated 10/11/2017 has submitted revised form-1 and revised EIA report in SEIAA and the same was forwarded to SEAC by SEIAA vide letter no 1198/SEIAA/17 dated 21/11/2017.

The case was presented by PP and their consultant in 299th SEAC meeting dated: 07/12/2017 wherein during presentation PP informed that their water requirement will be meet through MPAKVN. PP further submitted that only segregated waste will be collected by them and for proper segregation they will impart trainings to the waste occupiers and will also provide them color coded bags for waste collection. PP submitted that this will be zero discharge units. After presentation, PP was asked to submit response on following:

1. Form -1 has been revised and submitted along with revised EIA report, PP should submit the justified reasons and changes accorded in the form-1.
2. Similarly, PP has revised the EIA report and thus PP should submit the justified reasons and changes accorded in the revised EIA report.
3. The values of PM10 & PM2.5 are on higher side thus PP should justify the reasons for higher values around the proposed site and proposal for remedial measures.
4. Stack height is proposed 35 meters for which reason for selection of 35 meter height should be submitted by the PP with its backup calculations. The stack height should be designed considering the CPCB guidelines, background concentrations of the pollutants and there is no impact of stack fall out on the nearby habitation.
5. PP has proposed that this facility will be developed in phases. Thus phase wise land use should be provided.
6. Laundry which is a part of the facility will generate lot of infectious water thus PP should justify its treatment and how zero discharge will be maintained with development of 05 phases of this facility and available land.

7. PP should also provide the justification of proposed incineration facility i.e.500 Kg/hr. Where from this waste will be collected and details of gap analysis studies carried out.
8. PP should also examine and submit proposal for installation of bag filter in the incineration facility.
9. Case specific emergency response plan and backup calculations of modeling data should be submitted.
10. Details about quantities of ash generation from incinerator and boilers with their disposal plan.
11. Detailed drawings and designs of ETP with proposal for MEE and RO as proposed by PP during presentation.
12. Complete details of transportation vehicles wrt their capacity, numbers and waste transportation plan (road map) from source of generation to the facility.
13. Detailed engineering design of proposed facility with component wise layout of the facility should be submitted.
14. PP should provide the compliance wrt to the recent CPCB guidelines for BMW facilities and this proposed facility in such as land, specification of incinerator, monitoring protocol etc.
15. Please refer EIA page no. 128 wherein it is mentioned that two boilers are under operation-please justify?
16. NABL certificate of M/s ECO pro engineers who carried out the monitoring is not submitted.
17. Refer table 4.6 (EIA page 133) HCl has been considered in the calculation of GLC but the same has not been reported by M/s ECO pro engineers in the summary of results (page 08 of 21 to 13 of 21).
18. Considering habitation near to the project site (on the SE side), PP should have provided the details of habitations with sensitive features such as no. of houses, no. of residents and details of other structures such as schools, hospitals, source of water supply etc. as per the additional TOR but same are missing in the EIA report.
19. Monitoring of VOC should have been carried out and reported in the EIA report but the same is not submitted in the EIA report.
20. Detailed plantation scheme with numbers, their species wise distribution and budgetary provisions should be submitted.

PP vide letter dated: 17.01.2018 has submitted the reply of above required information which was forwarded through SEIAA vide letter No. 1572 dated: 22.01.2018 which was placed before committee. The query reply was presented by the PP and their consultant which was found satisfactory and acceptable. 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 development of Common Bio Medical Waste Treatment Facilities at Plot No. E3, New Industrial Area No. –II, Mandideep, Tehsil - Goharganj, Distt.- Raisen, (M.P.) Cat. 7 (da) in a total plot area -20,006.669 Sq m., subject to the following special conditions:

1. The EC shall be valid for establishing a phase wise Integrated Common Bio Medical Waste Treatment and Disposal Facility with following treatment capacity in phases–

Phase – 1:

- Incineration capacity: 1642.5 MT per year.
- Autoclaving capacity: 657 MT per year.
- Incinerator of capacity 250 kg/hr.
- 2 Autoclaves of capacity 50 kg/hr each.
- 2 Shredders of capacity 100 kg/hr each.
- ETP of 200 KLD treating capacity.
- Associated Utilities & Amenities.

Phase – 2:

- Laundry equipment with a capacity of 4000 kg/day.
- Boiler for the laundry.
- Associated Utilities & Amenities.

Phase – 3:

- Laundry of capacity 3000 kg/day.
- Boiler for the laundry.
- Associated Utilities & Amenities.

Phase – 4:

- Laundry of capacity 3000 kg/day with a total capacity of 10000 kg/day (Including Phase – 2, 3 and 4)
- Boiler.
- Associated Utilities & Amenities

Phase – 5:

- Incinerator of capacity 250 kg/hr.making total incineration capacity as 3285 MT per year including phase I and V.
- 2 Autoclaves of capacity 50 kg/hr each making autoclaving capacity 1314 MT per year
- 2 Shredders of capacity 100 kg/hr each

- Additional 100 KLD ETP making total capacity of 300 KLD including phase I and V.
- Associated Utilities & Amenities

(A) **PRE-CONSTRUCTION PHASE**

2. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
3. For dust suppression, regular sprinkling of water should be undertaken.
4. The entire area should be covered with 03 meters MS sheets and due care should be taken for noise and vibration control during demolition work.
5. PP will obtain other necessary clearances/NOC from respective authorities.
6. 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.

(B) **CONSTRUCTION PHASE**

7. PPE's such as helmet, ear muffs etc should be provide to the workers.
8. Fire extinguishers should be provided on site during construction period.
9. Black carpet road should be provided to reduce dust suppression.
10. All vehicles carrying raw material should be covered with tarpaulin and unloading/loading activities should be stopped during windy period.
11. During construction phase, a settling tank should be provided and settled water should be reused for construction purpose.
12. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
13. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
14. 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 in the EMP 320 trees are to be planted with budgetary provisions of Rs. 1.72 lakhs.
15. LED should be preferred over of tube lights/CFL.
16. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.

17. PP should explore the possibility of providing solar street light.
18. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

19. Fresh water requirement for the project (five phases) shall not exceed 260.0 KLD.
20. Land use breakup details as proposed by PP for this facility are as follows:

Land use Break-Up for proposed unit	
Particulars	Total Area 20006 Sq. mt.
BMW Incinerator	1424.37
BMW Laundry	302.62
Incinerator Stack	16.00
Parking and Washing	71.02
ETP	279.42
Boiler Area	23.00
Green Area	1875.15
Road and Circulation	3228.64
Future Expansion	12785.78

21. As proposed, the domestic waste water shall be treated in septic tank and soak pit system whereas industrial waste water shall be treated in ETP of 300 KLD (in two phases of 200 KLD and 100 KLD) with provision of tertiary system. Recycling of treated water shall be ensured to maintain zero discharge conditions.
22. 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. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. The ground water quality monitoring shall be monitored as per the MPPCB norms. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhopal and MPPCB.
24. On line continuous 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.

25. The height of the stack shall be not less than 30 mtrs.
26. 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.
27. 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.
28. Ventury scrubber with mist eliminator, Bag Filter, Multicyclone and dust collector shall be provided as air pollution control equipment.
29. Combustion gas analyzer to measure CO₂, CO and O₂ should be installed.
30. Internal roads will be concreted / asphalted to reduce dust emissions.
31. Spraying of "Ecosorb" should be performed on regular intervals to avoid any odor nuisance.
32. Magnetic flow meters shall be provided at the inlet/outlet of water supply point and records for the same shall be maintained and submitted to MPPCB regularly.
33. The PP should comply with the provisions made in Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016.
34. 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.
35. PP shall ensure that 02 additional vehicle shall be available all the time in addition to the required number of vehicle for collection and transportation of bio medical waste.
36. 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.
37. No hazardous waste should be disposed off in this facility.
38. As proposed, in the EMP 320 trees are to be planted with budgetary provisions of Rs. 1.72 lakhs in the project area which shall be developed as green belt within plant premises with at least 5 meter wide green belt on all sides along the periphery of the project area and along road sides etc. Selection of plant species shall be as per the CPCB guidelines and in consultation with the DFO.
39. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
40. 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.

41. 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 conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
42. For avoiding vehicle congestion /traffic jam within facility premises or outside road proper turning and parking space be provided. Also all internal roads shall be made pucca/bituminous top to avoid fugitive emissions.
43. All recommendations and pollution mitigative measures proposed in the EMP shall be binding for the project authorities.
44. Pucca flooring / impervious layer shall be provided in the work areas, chemical/waste oil storage areas and chemical handling areas to minimize soil contamination.
45. 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.
46. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.

(D) ENTIRE LIFE OF THE PROJECT

47. PP has proposed Rs. 70.00 lacks for environmental monitoring and management inclusive of green belt development and Rs. 7.00 lacks/year for recurring expenses in the proposed EMP of this project.
48. Under CSR activity, minimum 02% of the annual profit are proposed in different activities and should be implemented through respective committees.
49. 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.
50. 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.
51. 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.
52. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

53. 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.

9. Case No.4550/15 M/s. S.R. Traders, Sub Lessee, M.P. State Mining Corp. Ltd., Shri Atul Gondal, E-5, Shop NO. 12 Metro Plaza, Bittan Market, Bhopal (M.P.) – 462 004. Prior Environment Clearance for approval of Sand Quarry in an area of 7.0 ha. (70,000 cum/Year) at Khasra No. 896/1 at Vill. Shahganj, Teshil – Budhni, Distt. Sehore (M.P.)

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra No. 896/1 at Vill. Shahganj, Teshil – Budhni, Distt. Sehore (M.P.) 7.00 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 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vides letter no.-1784 dated: -10/7/15, has reported that there is no more mine operating or proposed within 1000 meters around the said mine.

SEIAA vides their letter no. 307/SEIAA/16 dated 02/04/2016 have forwarded the replenishment plan of the above lease.

Earlier this case was presented by PP and their consultant 17th SEAC-II meeting dated: 06/04/2016. During presentation, it was observed that as per the certificate issued by the DFO, Ratapani Abhayaran is at a distance of 8.0 kms (a Notified PA) Clearance from NBWL is therefore needed. PP has submitted the copy of online application made for wild life clearance with proposal no. FP/MP/MIN/324/2015 and date of submission is 09/11/2015. It was also observed during presentation as per the Google image of January, 2016 based on the co-ordinates provided by the PP that some parts of the lease area is submerged in the water and thus committee decided that 30 meters area of lease from the river side be left as no mining area as it is submerged in water. The other submissions made by PP were found satisfactory and acceptable and thus the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 70,000 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 50 meters annually in the last week of September and maintain the records in RL

(Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.

- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.

This case was scheduled in today's agenda as SEIAA has forwarded this case vide letter No. 1458 dated 04/01/2018 stating that: **The case was discussed 461th SEIAA Meeting 26.12.2017 it was recorded that** *“PP has submitted a request letter dtd. 22.11.2017 mentioning that in the ESZ Notification of Ratapani & Singhori Wildlife Sanctuary published by MoEF & CC, GoI on dtd. 11.08.2017. The Eco Sensitive Zone in case of Ratapani & Singhori Wildlife Sanctuary has been fixed with an extend of 2 km. from the boundary of the Ratapani & Singhori Wildlife Sanctuary and it was requested that the ML area lies at distance of about 8.0 km from the Ratapani Wildlife Sanctuary & the specific conditions (no 13 & 14) as mentioned in Prior EC vide letter no. 1181 dt. 03.05.16 for Wild Life Clearance from NBWL may be withdrawn by SEIAA.*

This case was discussed in the 319th SEIAA meeting dtd. 20.04.2016 and granted Prior EC subject to following specific conditions pertaining to the necessary wild life clearance from NBWL was imposed as under.

1. *SEAC has put a condition for obtaining Wild Life Clearance from NBWL and PP has submitted application also. No mining activity shall commence till the Wild Life Clearance is given by the National Board for Wild Life. The OM dated 02.12.2009 shall be applicable in this particular case. Mining Officer, Sehore shall be responsible for compliance.*
2. *Grant of environmental clearance does not necessarily implies that wildlife clearance shall be granted to the project and that their proposals for wildlife clearance will be considered by the respective authorities on their merits and decision taken.”*

Based on above submission case was placed before committee for discussion wherein it was observed 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 if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

10. Case No. - 5626/2017 Mr. Lalli Ram Rai, Ward No. 14, Krishnapuram, Dist. Shivpuri, MP – 473551 Prior Environment Clearance for Sand Deposit Quarry in an area of 16.340 Ha. (40,000 cum per annum) (Khasra no. 137) at Village- Dangra, Tehsil - Badoni, Dist. Datia (MP)

This is case of Sand Deposit Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located (Khasra no. 137) at Village- Dangra, Tehsil - Badoni, Dist. Datia (MP) 16.340 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 (Ekal Praman Patra) vide letter no. 65 dated: 21/1/2016 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 57.58ha including this mine.

The case was presented by the PP and their consultant wherein it was observed by the committee that PP has filed an application for the "modernization" while in Form-1, PP has also proposed for capacity expansion. Thus PP was asked to submit revised Form-1 for capacity expansion. PP was also advised to submit MoEF&CC compliance report for compliance for earlier EC conditions. It being a case of mechanized mining and mine was operational since grant of EC as informed by PP, it was also advised to consider following issues in their proposal:

1. Revised form-1 for capacity expansion.
2. MoRF&CC compliance report for compliance for earlier EC conditions.
3. Year wise details of amount expanded till date for EMP and CSR with justification and evidence such as photographs.
4. Photographs showing the lease boundary with co-ordinates.
5. Details of royalty paid for the volume of sand evacuated.
6. A detail of training and PPE's imparted to the workers.
7. As per PFR point no. 2 and in the EMP under heading "Land Use planning", it appears that till date mining is not carried out at site as area shown under pit is 0.00 and area under approach road is also shown as 0.00, which requires proper justification.
8. Approved maps such as surface, production are not attached with the mine plan.

9. As per Mining Plan's chapter 6 the proposed method of mining is semi-mechanized using 2 JCBs (pockland) and one 1 hywa. However, unladen weight and laden weight of both the machine (empty/ full with sand) not given, this information is essential to assess the amount of load that will be put on river bed and also to assess the level of "Bed compaction" for which report on bed compaction should be submitted.
10. Method of mining in EMP is given as Open cast manually and mechanized both which requires proper justification?
11. In EMP it is proposed that 33% area will be afforested which need proper justification with details of area.
12. Details of proposed safety measures during mechanized mining.

11. Case No. - 5627/2017 Mr. Amit Raghuwanshi, 337, Ward No. 15, Dayanand, Dist. Shivpuri, MP – 473551 Prior Environment Clearance for Sand Deposit Quarry in an area of 24.400 Ha. (2,50,000 cum per annum) (Khasra no. 410) at Village- Niwasi Ridiya, Tehsil - Roun, Dist. Bhind (MP)

This is case of Sand Deposit Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located (Khasra no. 410) at Village- Niwasi Ridiya, Tehsil - Roun, Dist. Bhind (MP) 24.400 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 (Ekal Praman Patra) vide letter no. 248 dated: 26/3/16 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine with total area of 66.400 ha including this mine.

The case was presented by the PP and their consultant wherein it was observed by the committee that PP has filed an application for the "modernization" while in Form-1, PP has also proposed for capacity expansion. Thus PP was asked to submit revised Form-1 for capacity expansion. PP was also advised to submit MoEF&CC compliance report for compliance for earlier EC conditions. It being a case of mechanized mining and mine was operational since grant of EC as informed by PP, it was also advised to consider following issues in their proposal:

1. Revised Form-1 for capacity expansion.
2. MoEF&CC compliance report for compliance for earlier EC conditions.
3. Year wise details of amount expanded till date for EMP and CSR with justification and evidence such as photographs.

4. Photographs showing the lease boundary with co-ordinates.
5. Details of royalty paid for the volume of sand evacuated.
6. A detail of training and PPE's imparted to the workers.
7. As per PFR point no. 2 and in the EMP under heading "Land Use planning", it appears that till date mining is not carried out at site as area shown under pit is 0.00 and area under approach road is also shown as 0.00, which requires proper justification.
8. Approved maps such as surface, production attached with the mine plan are not readable thus legible copies of these maps should be provided.
9. As per Mining Plan's chapter 6 the proposed method of mining is semi-mechanized using 2 JCBs (pockland) and one 1 hywa. However, unladen weight and laden weight of both the machine (empty/ full with sand) not given, this information is essential to assess the amount of load that will be put on river bed and also to assess the level of "Bed compaction" for which report on bed compaction should be submitted.
10. Method of mining in EMP is given as Open cast manually and mechanized both which requires proper justification?
11. In EMP it is proposed that 33% area will be afforested which need proper justification with details of area.
12. Details of proposed safety measures during mechanized mining.

(Mohd. Akram Khan)
Member

(Dr. A.K. Sharma)
Member

(Dr. J. P. Shukla)
Member

(R. Maheshwari)
Member

(Prashant Shrivastava)
Member

(Mohd. Kasam Khan)
Chairman

(A. A. Mishra)
Secretary

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/Murram 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 tarpoline 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 tarpoline 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.