

The 353rd meeting of the State Expert Appraisal Committee (SEAC) was held on 19th March, 2019 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. Dr. Jai Prakash Shukla, Member.
4. Dr. R. Maheshwari, Member.
5. Dr. Rubina Chaudhary, Member

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

1. **Case No.4761/15 Shri Naushad Bhagwagar, Partner, M/s The Central India Mining & Marketing Corporation (CIMMCO) R/o Gulab Rai Building, Opp. Nagar Nigam, District-Katni (MP)-483501. Prior Environment Clearance for Limestone & Dolomite Mine in an area of 4.13 ha. (40,000 TPA) at Khasra No.-418/1, 418/2, 418/3, Village-Bhatgawan Sunehra, Tehsil-Katni, District-Katni (MP)**

This is case of Limestone & Dolomite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra No.-418/1, 418/2, 418/3, Village-Bhatgawan Sunehra, Tehsil-Katni, District-Katni (MP) 4.13 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.1606, dated: 6/10/15 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 29.32 ha including this mine.

The case was presented by the PP in 11th SEAC-II meeting dated 09/03/2016. It's being a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Inventory of operating / proposed mines within 2 Km around the said mine.
2. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
3. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.

4. Any alternate route avoiding the nearby habitations.
5. Compliance of consent conditions of M. P. Pollution Control Board from concerned Regional officer.
6. Minimum six locations are considered for environmental monitoring.
7. Ground water level is recorded in underground sampling locations.

PP has submitted the EIA report vide letter dated 02/03/2019 which was forwarded through SEIAA vide letter no. 2583 dated 11/03/2019

In this meeting, the case was scheduled for the presentation 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. Committee decided to call the PP in subsequent meetings.

2. Case No. - 5523/2017 Govt. Bundelkhand Medical College, Shivaji Ward, Tili Road, Sagar, (M.P.) Prior Environment Clearance for Common Bio Medical Waste Treatment Facility through 100 kg per hour rotary kiln based bio medical incineration project at village Habsili, Distt. - Sagar, (M.P.) Cat. 7(da) Project. Env. Con. – Visiontek Consultancy Services, Pvt. Ltd.

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.

Earlier this case was Scheduled in 288th SEAC meeting dated-30/03/2017 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 of SEAC.

The case was scheduled again in the 289th SEAC meeting dated 28/04/2017 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. Earlier PP was also absent in the 288th SEAC meeting dated 30/03/2017.

Committee after deliberations decided to call the PP in subsequent meetings and if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Salient Features

Site Address	Khasara No. -166 Village- Habsili, Tehsil – Sagar, Distt.- Sagar(MP)
Proposed project	Bio Medical Waste Treatment Facility with the following : 1. Rotary Kiln – 01- 100 kg per hr 2. Autoclave - 02 - 0.25 m ³ 3. Shredder - 01 - 50 kg per hour 4. Effluent Treatment Plant - 01 - 6 KLD
Existing project	CBWTF facility with autoclave, shredder , etc
Cost of Project	Rs 2.05 Crore
Net fresh Water Requirement	5 KLD
Power Requirement	80 HP which will be sourced through Madhya Pradesh Vidyut Vitaran Company Ltd .
Capital Cost for Environmental measures (proposed)	25 Lacs
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.
Existing area of plantation	Nil
Alternative Source of Power	DG set of 25 KVA
Land acquired	6070 sq mt (1.5 Acres)
Proposed area for plantation	Total 33% area i.e. 2000 sq mt shall be dedicated for the green belt. Green belt will be developed according to CPCB/PCB guidelines

Environment Siting of the project

Particulars	Details
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Co-ordinate	23°50'39.63" N - 78°40' 22.61" E 23°50'38.07" N - 78°40' 23.59" E 23°50'41.25" N - 78°40' 25.88" E 23°50'39.84" N - 78°40' 26.78" E
Height above mean sea level	516 mRL
Nearest Town	Sagar - 6.30 km
Nearest Railway Station/Town	Ratona - 1.0 km
Nearest Airport	Bhopal - 146 km
Nearest Highway/Road	Khurai-Sagar SH-14 -1.15 km - N
Ecological Sensitive Zone	None in 10 km radius
Reserve Forest	Barkhera R.F. - 3.50 km -N Pagara R.F. - 3.80 km - NE Lalakpatan R.F. - 5.60 km -NW
Nearest Village	Habsili - 0.65 km - NW
Nearest River/ Nalla	Karawan Nadi-1.50 km - W Molali Nala-2.75 km -N Local Village pond- 1.75 km -NE
Surrounding Features	East- Open Mixed Jungle West- Open Mixed Jungle North-Open Land South- Open Mixed Jungle

Land Use Breakup of the Plant

Land use Break-Up for proposed unit	
Particulars	Total Area (Sq. mt.)
Plant and Machineries	348
Office and administration	100
Waste storage area	67
Fuel storage area	66
Road	100
Green belt area	2000
	2681 Sq.mt.
Open Land	3389

Total Land	6070 Sq.mt.
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The case was presented by the PP and their consultant in 290th SEAC meeting dated 22/05/2017, wherein committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TORs:

- a. DFO certificate regarding distances from National Parks/ Sanctuaries and Forest area in the format prescribed by MP, SEIAA should be submitted with the EIA report.
- 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. Facility should be complying all the norms prescribed in the Bio-Medical Waste Management Rules, 2016 and Revised Guidelines for Common Bio-medical Waste Treatment and Disposal Facilities published by CPCB for management and disposal of Bio medical waste.
- f. Wastes such as animal Carcass should not be handled and disposed at this site.
- g. Storm Water Management Plan should be discussed in the EIA report.

PP has submitted EIA/EMP vide letter no. 10205 dated 13/02/2019 which was forwarded through SEIAA vide letter no. 2339 dated 21/02/2019.

The case was scheduled for presentation in 346th SEAC meeting dated 26/02/2019, wherein neither the Project Proponent 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.

The case was scheduled for the presentation in the 352nd SEAC meeting dated 18/03/2019 wherein PP vide their letter dated 17/03/2019 requested for postponement of presentation and requested for rescheduling in next meeting. Committee accepted the request and rescheduled the presentation for tomorrow meeting if time permits.

The case was presented by the PP and their consultant wherein following details were provided by PP:

Chronology:

- Govt. Bundelkhand Medical College Sagar proposes Common Bio Medical Waste Treatment Facility at Khasara No. 166 Village-Habsili, Tehsil-Sagar in the Dist. of Sagar

(M.P.). The Bundelkhand Medical College were operating the bio medical waste treatment facility since 2012 comprises of auto clave, shredder etc. The waste requires incineration is being sent to CBWTF at Jabalpur (MP). The BMC were executed the above through operator M/s Devis Surgico .

- M/s Devis Surgico is operating CBWTF unit within the premises of Govt. Bundelkhand Medical College Sagar and providing treatment facility to bio medical waste of Hospital as well as other health care units of Sagar city.
- Proper Authorization were obtained by M/s Devis Surgico for operation of CBWTF facility at dist Sagar (MP). Municipal Corporation Sagar has allotted piece of land of 1.50 acres to BMC on dated 1.06.2009 at Village- Habsili, Dist. Sagar (MP) for up gradation and modernization of CBWTF..
- BMC has engaged M P housing corporation in year 26.02.2010 for construction of building and other infrastructure for installation of incinerator and allied facilities. The construction was completed on 15.04.2013.
- At present, it is estimated that 480 kg per day waste has been generated from the Sagar, Damoh, Tikamgarh, Bina, Vidisha, Narsinghpur, Chhatarpur and no CBWTF facility is in operation to treat the waste in the guided manner. After upgradation of facility, it is proposed to cover 10000 beds in 150 km radius. The subject proposal is the only one facility, therefore it is requested to provide recommendation for the project and oblige us.

The salient features of the project:

This is a case of proposed common Biomedical waste treatment facilities with treatment of 100kg per hour rotary kiln based bio medical incineration Project with following facilities: 1. Rotary Kiln – 01- 100 kg per hr , 2. Autoclave - 01+01 - 0.25 m³; 3. Shredder - 01 +01 - 50 kg hr; 4. Effluent Treatment Plant - 01 - 06 KLD. The project is covered as item 7(D) in the schedule of EIA notification 2006 , hence requires prior EC from SEIAA before commencement of any activity at site. The Form-1, PFR for pertaining to ToR was forwarded by SEIAA to SEAC for appraisal. PP and their consultant presented the case before the SEAC in this meeting. The submissions and the presentation made by the PP and his consultant revealed following:

The Bundelkhand Medical College were operating the bio medical waste treatment facility since 2012 comprises of auto clave, shredder etc. The waste requires incineration is being sent to CBWTF at Jabalpur (MP). The BMC were executed the above through operator M/s Devis

Surgico. M/s Devis Surgico is operating CBWTF unit within the premises of Govt. Bundelkhand Medical College Sagar and providing treatment facility to bio medical waste of Hospital as well as other health care units of Sagar city. Proper Authorization were obtained by M/s Devis Surgico for operation of CBWTF facility at dist Sagar (MP).

Municipal Corporation Sager has allotted piece of land of 1.50 acres to BMC on dated 1.06.2009 at Village- Habsili, Dist. Sagar (MP) for up gradation and modernization of CBWTF. BMC has engaged M P Housing Corporation in year 26.02.2010 for construction of building and other infrastructure for installation of incinerator and allied facilities.

At present, it is estimated that 480 kg per day waste has been generated from the Sagar, Damoh, Tikamgarh, Bina, Vidisha, Narsinghpur, Chhatarpur and no CBWTF facility is in operation to treat the waste in the guided manner. After upgradation of facility, it is proposed to cover 10000 beds in 150 km radius. The details are as follows :

The future planning for coverage area will be 150 K.M. radius area from new site:-

- 1- Ganjbasoda 104 K.M. from new site estimated Bed's covered by 1000 Bed's, (Ganjbasoda & other Rural area)
- 2- Begamganj 58 K.M. from new site estimated Bed's covered 500 Bed's. (Begamganj and other Rural area)
- 3- Gyarpur 75 K.M. from new site estimated Bed's will be covered 200 Bed's. (Gyarpur and other rural area)
- 4- Mugaoli 139 K.M. from new site estimated Bed's covered 500 Bed's. (Mugaoli and other Rural area)
- 5- Raisen 116 K.M. from new site estimated Bed's covered 500 Bed's. (Raisen and other Rural area.)
- 6- Narsinghpur 138 K.M. from new site estimated Bed's covered 500 Bed's. (Narsinghpur and other Rural area.)
- 7- Kareli 123 K.M. from new site estimated Bed's covered 500 Bed's. (Kareli and other Rural area.)
- 8- Sironj 142 K.M. from new site estimated Bed's covered 500 Bed's. (Sironj and other Rural area.)
- 9- Hirapur 85 K.M. from new site estimated Bed's covered 500 Bed's. (Hirapur and other Rural area.)
- 10- Vidisha- 112 K.M. from new site estimated Bed's covered 500 Bed's. (Vidisha and other Rural area.)

- 11- Katangi 150 K.M. from new site estimated Bed's covered 500 Bed's. (Katangi and other Rural area.)
 12- Gairatganj 83 K.M. from new site estimated Bed's covered 500 Bed's. (Gairatganj and other Rural area.)

Project at Glance

Site Address	Khasara No. -166 Village- Habsili, Tehsil – Sagar Dist.- Sagar (MP)
Proposed project	Treatment of 100 kg per hour rotary kiln based bio medical incineration Project: 1. Rotary Kiln – 01 - 100 kg per hr 2. Autoclave - 01+01 - 0.25 m ³ 3. Shredder - 01+01 - 50 kg per hour 4. Effluent Treatment Plant - 01 - 06 KLD
Existing project	CBWTF facility with autoclave, shredder, etc
Cost of Project	Rs 2.05 Crore
Water Requirement	5 KLD (Net fresh Water Requirement – 4.2KLD)
Power Requirement	80 HP which will be sourced through Madhya Pradesh Vidyut Vitaran Company Ltd .
Capital Cost for Environmental measures (proposed)	Rs 84.18 Lacs
Recurring cost for environmental management etc (Proposed)	Rs 6.90 @ 7.00 Lacs
Existing area of plantation	Nil
Alternative Source of Power	DG set of 25 KVA
Land acquired	1.5 acres
Proposed area for plantation	Total 33% area i.e. 2000 sq mt shall be dedicated for the green belt. Green belt will be developed according to CPCB/PCB guidelines
Direct employment generation	35-40 no.

- 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
- No interstate boundary is lying within 10 km radius from the site .

Environmental Setting of Project

Particulars	Details
Locations	Habsili, Sagar, Sagar, Madhya Pradesh
Co-ordinate	23°50'39.63" N - 78°40' 22.61" E 23°50'38.07" N - 78°40' 23.59" E 23°50'41.25" N - 78°40' 25.88" E 23°50'39.84" N - 78°40' 26.78" E
Height above mean sea level	516 mRL
Nearest Town	Sagar - 6.25 km
Nearest Railway Station/Town	Ratona - 1.00 km
Nearest Airport	Bhopal - 146 km
Nearest Highway/Road	Khurai-Sagar SH-14 -1.25 km - N
Ecological Sensitive Zone	None in 10 km radius
Reserve Forest	Barkhera R.F. - 3.50 km -N Pagara R.F. - 3.75 km - NE Lalakpatan R.F. - 5.50 km -NW
Nearest River	Karawan Nadi -1.50 km - W Molali Nala -2.75 km -N Village pond - 1.75 km -NE Pond - 250 mtrs - N Water Reservoir - 2.75km - SSW Nalla - 2.25km - SW Lakha Banjara Lake - 6.50km- E Nalla - 4.0km- ENE Dhasan River - 9.50km- W
Nearest Village	Habsili - 0.65 km - NW
Nearest major city with 100000 population	Sagar
Nearest Town / City within 10km radius	Sagar
Surrounding features	East - Waste land followed by Open Mixed Jungle West - Waste land followed by Open Mixed Jungle North - Waste land followed by Agricultural land

	South – Open Mixed Jungle
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Process & Treatment Technology

- Waste Segregation: Waste segregation will reduce the load of bio-medical waste and this also minimizes the environmental impacts associated with further processing. Waste will have to be segregated into domestic refuse, hazardous waste and infectious waste separately.
- Further the infectious waste will have to be segregated into plastics, metals, and other infectious waste generated. Segregation is done effectively if performed at source.
- Waste Collection and Transport: Facility / unit have to ensure that there are no environmental or human health impacts while collecting & transporting Bio-Medical waste.
- Treatment/ Storage/ Disposal: Treatment/ Storage and disposal of the waste have various options available. Waste treatment can be effectively performed by two operations running parallel to each other:
- A Disinfecting unit is one that will effectively kill all the microorganisms. Autoclaving, Microwaving, Hydro claving and Chemical disinfection processes are the most prevalent technologies used for disinfection of pathogens from the bio-medical waste.
- Autoclave used for the purpose of bio-medical waste management is expected to be dedicated for the purpose and is expected to operate under standards specified by CPCB. Medical Waste shall not be considered treated unless the time, temperature and pressure indicated in the standards are reached (for eg. 1210 C, 15 psi for 1 hour for normal autoclave).
- Chemical disinfection is a process of disinfection wherein chemical disinfectants like chlorine and its derivatives or their disinfectants are used in a closed process to attain complete killing of the pathogens
- A Destruction Unit: A Destruction unit is one that will completely destroy the waste into safe end products. High temperature incinerators are used to achieve this. Incineration is a process by which combustible materials are burnt, producing combustion gases and non-combustible residue and ash. The combustible gases are vented into the air after treatment through air pollution control devices. Ash and other non combustible residue remain after the destruction/ incineration process is disposed off securely into a landfill site.
- Waste disposal: Waste disposal is an option which remains to exist irrespective of the treatment options, in case of disinfection waste material post-disinfection needs to be land filled and in case of incineration the non combustible residue and ash needs to be disposed off into a landfill and thus landfill remains to be an integral part of an integrated bio-medical waste management facility.
- Incineration through rotary kiln - This is a high temperature thermal process employing combustion of the waste under controlled condition for converting it into inert material and gases. Incinerators can be oil fired or electrically powered or a combination of both.

- Rotary kiln : Burning of bio medical waste at 800°C to 950°C for de grading of organic
- Secondary chamber : Re burning of flue gas up to 1050 °c -1200°C de grading of in organic
- Gas dilution chamber : Reduce the concentration and temperature of thermal treated flue gas
- Fly ash control device : High temperature bag filter to prevent fly ash from thermal treated gas
- Ventury : High pressure ejector Venturi unit for liquid quenching treatment of thermal treated exhaust gas
- Flue gas treatment media tank : 6kl 5-7% NAOH water tank lined with isothalic FRP with high pressure pumping unit
- Mist eliminator : Post quenching and filtering of exhaust gas and seprat mist from gas (de misting)
- Id fan : High capacity ID fan for sucking the high quantity of negative pressure generating the whole unit
- Chimney : Discharge the treated gas from the machine to 35 mtr above from ground level

Air Pollution Control Measures

It is reported that AAQM of the area are complying with standard as given by the statutory authorities. Following measures are proposed to control the air pollution:

- The gases after being burnt at 1050° C shall run into a venturi scrubber followed by a scrubber with water quenching arrangement. The scrubber shall be an alkaline scrubber to neutralize the gases and ensure trapping of any pollutants escaping into the environment. The purpose of water quenching is to reduce the temperature of the gases which are at high temperature. The clean gases are let out into the environment. The scrubbed water shall be collected into a sump, where the water is neutralized, and then sent into a cooling tower from where the water is recirculated into the scrubber after cleaning of particulates by way of pressure sand filter and activated carbon filter. The system is thus a zero discharge system in terms of water discharges and is pollution free.
- The high pressure venturi scrubbing system shall be retrofitted to the incinerator. This Air Pollution Control device takes care of the flue gases exiting from the dilution chamber which shall pass through the scrubbing system where water and 5% caustic soda solution is sprayed on the flue gases by S.S. nozzles at a very high pressure. The venturi scrubber shall be High Pressure Type manufactured from S.S. 316L sheet. The system shall have venturi nozzles made from S.S. 316L. The pressure drop in system shall be 350 mm WC and scrubbing media circulation rate 3000 LPH. Outlet temperature of the flue gases shall be around 85 to 95°C. The complete accessories like valves, fittings shall also be provided. Centrifugal type re-circulation pump of suitable size. Casing and Impellor of the pump shall be

manufactured from stainless steel / HDPE. In addition to it a dosing pump unit shall be retrofitted to maintain the PH value of the scrubbing media.

- Droplet Separator: A sprat Tower Scrubber shall also be provided which is fitted (Mist eliminator) with the Venturi Scrubber to separate the water droplets from the flue gases. It shall be manufactured from mild steel internally FRP lined material and shall have the demister pad which separates the water droplets. The flue gases existing from the venturi scrubbing system shall travel through the droplet separator where they shall be again mix up with the water for more cooling. It shall be Cyclonic Static type with tangential entry to remove carry over water / drops. Water droplets usually are carried off by the gas stream exiting the scrubber known as a white plume. A mist eliminator is a stationary piece of equipment that removes most of the entrained water droplets from the gas and will reduce the moisture collected at the induced draft fan and other downstream equipment. The temperature shall be maintained between 85-90 °C at the exit. Following are the measures as proposed by PP:
 - Stack height shall be provided 30 mtrs
 - Wastes to be incinerated shall not be chemically treated with any chlorinated disinfectants.
 - Ash from incineration of biomedical waste shall be disposed of at common hazardous waste treatment and disposal facility.
 - 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.
 - 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.
 - Continuous emission monitoring system for the parameters as stipulated by MPPCB in authorization
 - Incinerators (combustion chambers) shall be operated with such temperature, retention time and turbulence, as to achieve Total Organic Carbon content in the slag and bottom ashes less than 3% or their loss on ignition shall be less than 5% of the dry weight.
 - Combustion gas analyzer to measure CO₂, CO and O₂ will be installed.
 - Internal roads will be concreted / asphalted to reduce dust emissions
 - Provision of flue stack of 30m height for wider dispersion of gaseous emissions
 - Provision of water spraying arrangement at raw material storage yard
 - Asphaltting of the roads within the plant area;
 - Adequate stack height of 15mt shall be provided for the DG set to keep the air pollutants well within the prescribed limits;
 - Idle running of vehicles shall not be allowed. Provision of periodical check of vehicles for pollutant emissions.

- Provision of enclosure for all the loading & unloading operations
- Provision of PPE's for all workers.
- Maintenance of air pollution control equipment on regular basis.
- Monitoring of work zone to check the air quality
- Green belt will be provided along the internal roads and plant boundary
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S.No.	Parameter	Standards	
		Limiting concentration in mg /Nm ³	Sampling Duration in minutes, unless stated
1	Particulate matter	50	30 or 1NM ³ of sample volume, whichever is more
2	Nitrogen Oxides NO NO ₂ expressed asNO ₂	400	30 for online sampling or grab sample
3	HCL	50	30 or 1NM ³ of sample volume, whichever is more
4	Total Dioxins and Furans	0.1ngTEQ/Nm ³ (at 11%O ₂)	8 hours or 5NM ³ of sample volume, whichever is more
5	Hg and its compounds	0.05	2 hours or 1NM ³ of sample volume, whichever is more
6	CO2 correction	12%	

Water Environment

The total fresh water requirement for unit is reported as 5 KLD

Water Balance for proposed unit		
Heads	Water Consumption	Waste Water Generation
	Proposed	Proposed
Incineration	1200 ltr	400 ltr
Floor washing	800 ltr	680 ltr
Vehicle washing	1000 ltr	900 ltr
Steam Generation	100 ltr	Nil
Green Belt	500 ltr	Nil
Domestic	1400 ltr	1300 ltr
Total	5000 ltr	3280 ltr

Treatment of Effluent:

- Effluent initially will be passed through screen & grit chamber for the removal of coarse particles before it enters into oil and grease trap. After this the effluent is being stored in an underground tank where partial aeration is being done to keep the solids into suspension for pumping ease.
- The effluent then will be pumped from underground tank to flash mixer where Lime, Alum and Polymer solution is being mixed. The capacity for the Reaction chamber/ Flash mixture cum flocculate is as per requirement. After chemical mixing the effluent will be transferred to Primary lamella clarifiers by gravity where settling of solids take place. The capacity of the lamella clarifiers will be as per requirement having minimum retention time for 1hr. Clarified water will be taken to aeration

Primary Treatment:

- This is the first steps of inlet waste water mainly consist of removal of coarse particles, oil and grease and mixing co-agents in the water for removal of suspended solids through sedimentations After this treatment scheme the BOD, TSS, COD & O& G levels come down to 25% of initial levels.

Secondary Treatment:

- This is the second step of wastewater treatment. it mainly consist of extensive aeration of the primary treated water , bacterial growth , addition of oxygen and chemical which help in bacterial growth and lastly settlement of the biological waste as sludge. Normally it is found that the reduction levels in TSS, BOD, O & G and COD after an efficient secondary treatment will be as under

Tertiary Treatment:

- This is the final stage of treatment where the effluent after secondary treatment first is mixed with Sodium Hypo Chloride and then effluent will be passed through (DMF) dual media filter and (ACF) activated carbon filter where sand, anthracite and activated carbon will be used as filtration media. Once the above limits achieved thereafter the final outlet water will also confirms the Bio Assay test of 90% of fish survival

Water Pollution Control Measures:

The main wastewater generations sources in the proposed project are cleaning of the floors and pavements of the facility and vehicles, vehicle wash area, etc will be treated in ETP. The domestic waste water will be treated in septic tank followed soak pit.

- Treatment plant of 6 KLD shall be installed for treatment of waste water. The treated effluent shall be utilized for green belt development, toilet flushing and ash quenching. Hence no effluent discharge will take place.
- Web based camera shall be installed to monitor the ZLD condition.
- A drain along the boundary wall shall be made, and shall be connected to settling tank to protect the flow of contaminant towards nearby land
- Regular monitoring and analysis of upstream and downstream of river Halali flowing nearby shall be carried out
- RCC dyke/platform should be constructed for storage of chemicals and oil drums to avoid spillage.

Following are the measures proposed for storm water management:

- Run-off from upstream areas will be diverted to proposed settling tank within the premises through drains.
- The run-off generation will be minimized by diverting run-off from areas external to the plant to storm water discharge points;
- A drain along the boundary wall shall be made, and shall be connected to settling tank to protect the flow of contaminant towards nearby land
- Run-off from area external to process areas of the plant will be contained within a storage system.
- Regular inspection and cleaning of storm water drains.
- Conducting routine inspections to ensure cleanliness.
- Preparation of spill response plans, particularly for fuel and oil storage areas.

Odor Control Measures:

The mitigation measures proposed to minimize and control odor are as follows.

- Dilution of odorant by odor counteraction or neutralize by spraying Ecosorb (organic and biodegradable chemical) around odor generation areas at regular intervals.
- Covering the landfill area under operation daily with layer of earth, clay or a similar material.
- Covering by using heavy duty hessian, plastics and foams odor can be minimized.

Compliance Status wrt to CPCB Guideline

PP has proposed the following compliances towards the CPCB guideline issued for CBWTF units

Design Parameter	CPCB Guidelines	Compliance status of Proposed Incinerator
Air Pollution Control Devices	Compulsory	All necessary air pollution Control devices(Quencher, Venturi Scrubber, Wet Alkaline Scrubber, etc.) are provided to meet the emission standards prescribed in Bio-Medical Waste Management Rules, 2016
Chambers	Only double chamber	Dual Chamber Incinerator is proposed.
Volume of primary chamber	5 times the volume of one batch	Volume of primary chamber is proposed to be at least 5 times the volume of one batch of bio-medical waste.
Size of opening	> size for waste bag to be fed	The size of opening shall be greater than size of the waste bags to be fed.
Pressure gauge	Mandatory	Necessary pressure gauges will be provided.
Double chamber incinerator design	Controlled air incinerator principle	Incinerator is designed on controlled air incineration principle.
Overall design	Minimum 100% excess air	Incinerator is designed considering minimum 100% excess air.
Air supply	Primary chamber: 30-80 % of stoichiometric Amount	Shall be Complied.
Flow meters on primary and secondary	Mandatory	Flow meters shall be provided as per guidelines.

ducting		
Pressure in incinerator	Lower than ambient pressure in incinerator room	Incinerator designed accordingly.
Draft height of WC column	Minimum 1.27 to 2.54 of water column	Incinerator designed accordingly.
Water column pressure measurement by U-tube manometer	Mandatory	Incinerator designed Accordingly
Residence time of waste in secondary chamber	Minimum 2 sec	Secondary chamber of the incinerator designed to maintain a minimum residence time of 2 seconds.
Temperature	Primary chamber : min of 1000°C	Shall be Complied.
	Secondary chamber : min of 1200°C	Shall be Complied.
Refractory bricks	Minimum thickness : 115 mm; IS: 8-1983 & IS:2042-1972	Provided
Incinerator shell thickness	Min 5 mm	Incinerator designed accordingly.
Incinerator thickness temperature with standing capacity	Min. 250°C and outside surface temp. < 20°C above ambient temperature	Incinerator designed accordingly.

Refractory lining of hot ducts	Shall be done with refractory castable (min, 45 mm thickness) and insulating castable (min. 80 mm thickness	Incinerator designed accordingly.
Thermocouple location	Primary chamber- Before admission of secondary air	. Incinerator designed accordingly.
	Secondary chamber: at the end of secondary chamber or before the admission of dilution medium	Complied. Incinerator designed accordingly.
Heat burning time prior to waste charge	Max. of 60 minutes	Incinerator designed accordingly.
TOC content in slag and bottom ash	< 3%	Incinerator designed accordingly.
LOI	<5 % of dry weight	Incinerator designed accordingly.
Automatic switch on/off for temperature control	Mandatory	Incinerator designed accordingly.
Handling during charging of waste	No manual handling/ waste shall be charged in bags through	Incinerator designed accordingly.

	automatic feeder system	
PLC system	Mandatory	PLC system provided.
Emergency vent	Mandatory	Emergency vent shall be provided.
Graphic or computer recording devices	Mandatory	Incinerator designed accordingly.
Continuous emission monitoring system	For CO, CO ₂ and O ₂	Continuous online monitoring system has been installed.
Structural design of chimney/stack	IS 65330-1989	Shall be Complied.
	Lining with min. 3mm thick natural hard rubber	
	IS: 4682 part I-1968(for avoiding corrosion)	
Instruction plates at suitable places	Mandatory	Shall be Complied..
Air Pollution Control Devices		
Acids	Acid gas scrubbers	Shall be Complied.
Oxides of nitrogen	Catalytic converter/ high temp reaction with ammonia	. Will be provided, if necessary.
Heavy metals	Adsorption on injected activated carbon powder	Shall be Complied.

Dioxins	Rapid quenching/ catalyst/adsorption by activated carbon	Sufficient capacity quencher has been provided.
Mist	Demister	Demister is provided
Oxygen correction	<Standard percentage oxygen concentration (11%)	Oxygen correction is as per guidelines.
Stack height requirement	> or = 30 m above the ground, BMW rules,2016	Shall be Complied.Stack height of 30 meters
Stack emission monitoring provision	As per Emission Regulations, Part-3 (COINDS/20/1984-85)	Shall be Complied.Stack emission monitoring provision has been ensured to be as per guidelines
	Separate monitoring provision for dioxins and furans	
Particulate Matter, HCl, NO _x , Hg & compounds and combustion	Frequency: Once in 3 months	Shall be followed
Dioxins and furan	Frequency: Once in a year	Shall be followed
Continuous emission monitoring system	Mandatory	Shall be Complied. Continuous emission monitoring system is considered in Incinerator

		design
Quench/ scrubber waste management	Wastewater shall be treated	Shall be Complied.Wastewater will be treated in ETP

Waste Management

- 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 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 precaution shall be taken during handling, loading and unloading of solid waste.

Name Of The Waste	Approximate Quantity (Tonnes/Year)	Waste Generating Point	Mode Of Handling & Transport
Used oil	50 Lit/Yr.	From DG Sets, Pumps, etc	Will be given to authrosised recyclers.
Incineration Ash	10 MT/Year	Incineration of Biomedical Waste	Authorized TSDF
Used carbon from ACF	01 MT/Year	ETP	Authorized TSDF
ETP Sludge	2 MT/Year	Effluent treatment plant	Authorized TSDF

Collection and Transportation of Bio medical Waste

- Biomedical Waste segregated in color coded containers as per Biomedical Waste Management and Handling Rules shall be collected from various Health Care Facilities located in the 75 Km radius (Covering 10000 beds) The collected waste shall be transported in specially designed closed vehicle to the proposed CBWTF for treatment and disposal.
- M/s BMW Solutions is intending to have 6+2 closed vehicles for the Collection & transportation of bio-medical waste to proposed facility.

Proposed Greenbelt Development:

Year	Area (Sq mt)	Number of Plants
Existing	Nil	Nil
1 st Year	2000	400
Total	2000	400

- As no wastewater will be discharged outside the premises, there will be insignificant impact on the ecology of the study area due to from the proposed project.
- Provision for regular watering during the summer period during the commissioning stage of the plant will be arranged from the local available resources.
- Presently land and surrounding is barren and the proposed green belt would help in reducing the adverse impacts further. On the periphery of the plant a series of trees will also be planted.
- Minimum of hedges/silencers shall be done.

Proposed Plantation Detail		
Description	Qty	Location
Trees		
Neem	25	Boundary Wall
Pipal	10	Boundary Wall
Makelia Champa	20	
Penta Forum	20	
Akash Neem	20	
Ficus Benzamin	20	

Pulp Trees		
Ashoka	35	Around ETP
Ornamental Trees		
Amaltash	30	Road Main Gate - Admin Block
Gulmohar	30	Road Main Gate - Admin Block
Satparni	30	In Around Admin Block
Ashoka Tree	40	In Around Admin Block
Fruit Trees		
Emly	20	Boundary wall
Jack Fruit	10	Boundary wall
Fragment		
Madhukamini	20	Boundary Wall
Green Champa	20	Boundary Wall
Rat Rani	20	Boundary Wall
Kaner	20	Boundary Wall
Mehandi	10	Boundary Wall
TOTAL	400	Boundary Wall

Socio Economic Environment:

S. no	Need Identified For CSR Plan	Activities	Duration	Budgetary Provision (Rs.) Per Annum
1	Provision of Infrastructure facility to nearby school	Chair, Table, Fan, drinking water facility, Medical check up facility, toilet facility at school located at Habsili, Dharamsi, Berkhari Khurd, Biharipura Arnawani, Fhutera, Jarara	Yearly	40,000/-
2	Medical camps at nearby villages	At nearby villages Further people of nearby villages will be given token so that medical facility shall be available to them in short period,	Yearly	15000/-
			Total	55,000/-

CER Calculation

Rs 2.5 % of project cost = Rs 205 Lacs

(Total CSR cost : 5.125 Lacs)

Rs 51,250 @55 000 per annum for 10 years

Segment	Plan	Action Plan	Budget allocation per Annum (Approx)
Air Environment	Monitoring of Environmental parameters of AAQM (Instruments) & Monitoring of stack emission	Continuous On line system for stack monitoring Quarterly AAQM monitoring	Rs. 25 + 25 Lacs (capital cost) Rs 1.25 Lacs (Recurring @ Rs 7000/- per sample for AAQM)

			@ Rs 25,000 for maintenance of on line system
Water Environment	<ul style="list-style-type: none"> i) Monitoring of ground water i) Monitoring of Surface water courses (River) i) Monitoring of treated effluent 	<ul style="list-style-type: none"> (Pre and post Monsoon) (Pre and post Monsoon) Monthly 	<ul style="list-style-type: none"> Rs. 1.0 Lacs (recurring @ Rs 8000 per sample for G/w & S/w Samples) Rs. 0.25 Lacs (recurring @ Rs 5000 per sample for treated water Samples)
Noise Environment	Monitoring of noise prone location	Quarterly	Rs 0.50 Lacs (recurring)
Soil Environment	Monitoring of soil quality of nearby locations	Yearly	Rs 0.20 Lacs (recurring)
Water Table Monitoring	-	-	Rs 0.25 Lacs (recurring)
TOTAL Environmental Monitoring)	-	-	Rs 50 Lacs (Capital) Rs 3.70 Lacs (recurring)
OHS Aspects	<ul style="list-style-type: none"> Regular Health check up of employees Personnel Protective equipments etc 	Once in year	<ul style="list-style-type: none"> Capital Cost Rs. 2.0 Recurring Cost : Rs 0.50 Lacs
Green Belt development Cost		(Pre and post Mansoon) for 05 years	<ul style="list-style-type: none"> Capital Cost : Rs 6.18 Recurring cost-Rs 0.30
Fund for CSR Activities	-	Rs 2.5 % of project cost = Rs 205 Lacs	<ul style="list-style-type: none"> (Total CSR cost : 5.125 Lacs) Rs 55,000 per annum for 10 years

Segment	Plan	Action Plan	Budget allocation per Annum (Approx)
OHS Aspects	Regular Health check up of employees Personnel Protective equipments etc	Once in year	Recurring Cost : Rs 0.50 Lacs
Green Belt development Cost		(Pre and post Mansoon) for 05 years	Capital Cost : Rs 0.50 Recurring cost-Rs 0.20
Fund for CSR Activities	-	Regular	Rs 2.5 % of project cost = Rs 205 Lacs (Total CSR cost : 5.125 Lacs) Rs 51,250 @ 52000 per annum for 10 years

Capital Investment for Environmental Protection

Sn	Particulars	Capital Approximate Cost (Rs Lacs)	Recurring cost Rs in Lacs
1	Air Pollution Control Systems Scrubber, spray drier, etc. online stack monitoring	25+25 =50	3.60
2	Effluent treatment plant and soak pit etc, pizometer installation	20	1.80
3	Odour Management	02	0.20
4	Noise Control (Acoustique enclosures etc.)	02	-
5	Green Belt développment	6.18	0.30

6	Occupational Health Management A. Occupational health Survey B. Provision of PPE	2.00 (1.50 + 0.50)	0.50
8	Miscellaneous	2.0	0.50
	Total	84.18	6.90
Total Cost Pertaining To Environmental Aspects			
	Environmental Protection	84.18	6.90
	CSR	5.125	55,000
Note: The Budgetary provision of Rs 75.35 Lacs has been sent by the nagar nigam to BMC for road construction from Incinerator house to Main Road. The expenditure in construction is not included in the EMP Budget.			

During discussion it was submitted by PP that the stack height is provided 30 ntrs for better dispersion of the treated gases in the atmosphere. It was further submitted that ventury scrubber, beg filter, droplet separator are proposed as APCD to control the emission as per standard given in the BMW Act, 2016 and guideline issued by the CPCB. It was also informed by the PP that considering the available quantity of waste and proposed route map, total 08 vehicles are required for collection of waste. Committee suggested that 02 more additional vehicles shall be kept as standby to meet out the requirement if any vehicle is under maintenance/ wear & tear problems. Regarding quantification & disposal of Ash, PP has submitted that the quantity of ash is reported as 4 to5% of the waste and to comply with the guideline of CPCB, agreements will be made with the operator of CTSDf, Pithampur, Dhar, M.P., for its disposal in land fill.

After presentation PP was asked to submit following information:

1. Revised layout map showing entry and exit gate, ETP, Washing Area, Ash Storage Room, Sharp Pit with their respective dimensions.
2. Water Management during rainy season.
3. Revised plantation scheme.

PP vide letter dated 19.03.2019 has submitted the reply of above required information which was placed before committee. The EIA/EMP was presented by the PP and their consultant

and other submissions made by the PP were found to be satisfactory and acceptable hence committee decided to recommend the case for grant of prior EC for proposed Development of Common Bio Medical Waste Treatment Facilities, at **Khasara No 166, Village Habsili, Tehsil & District Sagar (MP.)** in a land of about 1.5 acres of area, subject to the following special conditions:

The EC shall be valid for establishing a 100 kg per hours rotary kiln based Integrated Common Bio Medical Waste Treatment Facilities at Habsili Village, Sagar District, Madhya Pradesh apart from existing facility such as autoclave (01), shredder (01) & land fill. The proposed additional facilities are:

- | | | | | | |
|----|--------------------------|---|----|---|---------------------|
| 1. | Rotary Kiln | - | 01 | - | 100 kg per hr |
| 2. | Autoclave | - | 01 | - | 0.25 m ³ |
| 3. | Shredder | - | 01 | - | 50 kg per hour |
| 4. | Effluent Treatment Plant | - | 01 | - | 06 KLD |

(A) PRE-CONSTRUCTION PHASE

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

(B) CONSTRUCTION PHASE

5. PPE's such as helmet, ear muffs etc should be provide to the workers.
6. Fire extinguishers should be provided on site during construction period.
7. Black carpet road should be provided to reduce dust suppression.
8. All vehicles carrying raw material should be covered with tarpaulin and unloading/loading activities should be stopped during windy period.

9. During construction phase, a settling tank should be provided and settled water should be reused for construction purpose.
10. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
11. Waste construction material should be recycled as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
12. Peripheral plantation inclusive of avenue and sugandit 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 landscape plan & EMP 2000 sq mt of area will be developed as green belt. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
13. LED should be preferred over of tube lights.
14. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
15. PP should explore the possibility of providing solar street light.
16. 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

17. Fresh water requirement for the project shall not exceed 5 KLD.
18. Land use breakup details as proposed by PP for this facility are as follows:

Land use Break-Up for proposed unit	
Particulars	Total Area (Sq. mt.)
Plant and Machineries	348
Office and administration	100
Waste storage area	67
Fuel storage area	66
Road	100
Green belt area	2000
Total	2681
Open Land	3389
Total Land	6070 Sq.mt.

19. As proposed, the domestic waste water shall be treated in septic tank and soak pit system whereas waste water from scrubbing section and floor washing shall be treated in ETP of adequate capacity with provision of tertiary system. Recycling of treated water shall be ensured at maximum extent.
20. The CBWTF facility shall be developed as per the proposal submitted by PP and shall be in line with the CPCB guideline and CBWTF act 2016 and its subsequent amendment.
21. The PP will establish the pizometer for quality and level monitoring of ground water to achieve standard prescribed the M.P. Pollution Control Board (MPPCB) zero discharge norms.
22. As proposed, 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. On line continous monitoring system shall be insallted to monitor the stack emission. The height of the stack shall be provided not less than 30 mtrs.
24. 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.
25. 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.
26. Continuous emission monitoring system for the parameters as stipulated by MPPCB in authorization.
27. Incinerators (combustion chambers) shall be operated with such temperature, retention time and turbulence, as to achieve Total Organic Carbon content in the slag and bottom ashes less than 3% or their loss on ignition shall be less than 5% of the dry weight The runoff water from the site collected in working pit, settled water reused for construction activities and if any over flow is there, water will be diverted to nearby greenbelt/plantation area and for sprinkling on roads to control dust emission.

28. Ventury scrubber with mist eliminator, Beg Filter, Multicyclone and dust collector shall be provided as air pollution control equipment.
29. Combustion gas analyzer to measure CO₂, CO and O₂ will 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 odour 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 as laid down by CPCB and CBWTF act shall be complied.
37. No hazardous and biomedical waste should be disposed off in this facility.
38. As proposed, 2000 sq mt of the project area 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. All the commitments made in the Public Hearing shall be implemented by PP.
40. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
41. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

(D) ENTIRE LIFE OF THE PROJECT

42. PP has proposed Rs. 84.14 lakh for environmental monitoring and management inclusive of green belt development and OHS aspects and Rs. 6.90 lakh/year for recurring expenses in the proposed EMP of this project.
43. 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.

44. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
45. Necessary consents & authorization shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
46. 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.
47. 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.
48. All recommendations and pollution mitigative measures proposed in the EMP shall be binding for the project authorities.
49. The overall noise level in and around the facility area and D.G. Set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
50. Pucca flooring / impervious layer shall be provided in the work areas, chemical/waste oil storage areas and chemical handling areas to minimize soil contamination.
51. 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.
52. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.
53. 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.
54. 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.
55. 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.
56. 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.

3. Case No. - 5760/2018 Sarpanch, Gram Panchayat Bhavan Bahri, Tehsil Bahri, District Sidhi (MP) Prior Environment Clearance for Sand Quarry in an area of 7.00 ha, for production capacity of 54,000 cum/year at Khasra no.- 819, Village Bahri, Tehsil Bahri, District Sidhi (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. - 819, Village Bahri, Tehsil Bahri, District Sidhi (MP) 7.00 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 Collectors' Office (Ekal Praman-Patr) vide letter no. 365 dated: 23/04/2018 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

PP and their consultant presented the case in 330th SEAC meeting dated 24/10/2018 and during appraisal of the project it was observed by the committee that few coordinates are falling on the hill in the north-eastern side crossing river bed and few trees are also seen on Google image of October 2018. Thus after presentation, PP was asked to provide following informations:

1. District Survey Report which is not enclosed with application as per MoEF O.M. S.O. 3611 Dated 25th July 02018. However, PP has submitted Geological Survey Report wherein no relevant details of sand mining are provided.
2. Replenishment plan is not approved by the competent authority.
3. As per the co-ordinates provided by PP, some co-ordinates are falling on agricultural field, thus PP was asked to submit revised co-ordinates duly authenticated by the competent authority.

PP vide letter dated 06/11/2018 has submitted the reply which was placed before the committee in 336th SEAC meeting dated 04/12/2018 for discussion. On perusal of the reply submitted by PP committee observed that PP has submitted the replenishment report but the same has not been approved by the competent authority and even the RQP has not signed the report. Further the co-ordinates provided by PP are not authenticated by the competent authority and issued by the "Mining Surveyer" and are falling in Son Gariyal Wildlife Sanctuary. When the co-ordinates provided by PP matched with the co-ordinates mentioned in the DFO certificate it is observed that both the co-ordinated are also not matching. Hence

committee decides to call PP in the subsequent meeting with the above informations for further consideration of the case.

The case was presented by the PP and their consultant in 337th SEAC meeting dated 01/01/2019, wherein PP submitted that the co-ordinated provided by DFO are correct and shall be considered for this project. On perusal of DFO certificate issued vide letter dated 30/06/2018 it was observed by committee that the lease lies 160 meters away from the ESZ of son ghariyal abhyaran. As per the Google image of October, 2018, a natural stream from SW direction is joining the lease thus 50 meters of the both side shall be left as non mining area. Since the lease area is 7.00 ha and sanctioned volume is only 54,000 cum/year same can be evacuated even leaving 50 meters non mining area. It was further observed by the committee that replenishment plan is signed by the Asstt. Mining Officer for which PP submitted that as per M.P. state notification no. 495 dated 17.09.2018 Mining officer/ Asstt. Mining officer / Mining Inspector who have done their master degree in Geology / Applied Geology or Mining Engineering/ Diploma, they may be authorized by the collector to approve /recommend the mining plan and thus as per notification, AMO has signed the replenishment plan.

The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence Committee after deliberation found that The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC 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 54,000 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.
- A natural stream is joining the lease from the SW direction, thus 50 meters of the both side shall be left as non mining area.
- 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.
- The lease area should be clearly distinguished and earmarked at the site.
- A budgetary provision for Environmental management Plan of Rs. 4.75 Lakhs as capital and Rs. 3.20 Lakh as recurring
- In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
- Under CSR Rs. 2.80 lakh/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.

This case was scheduled in this meeting as SEIAA vide letter no 2355 dated 21/02/2019 forwarded this case to SEAC by stating that: After detailed discussion in 522nd SEIAA meeting dated 22.01.2019 it is noted that the lease area is more than 5 ha hence in compliance of Hon'ble NGT orders dated 13.09.2018 and MoEF&CC OM dated 12.12.2018, it is decided to return the case to SEAC for reappraisal as per above OM.

In this meeting the case was scheduled for the presentation 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. Committee decided to call the PP in subsequent meetings.

4. Case No. - 5930/2019 Smt. Manisha Patidar W/o Shri Mahendra Patidar, Village - Kukshi, Tehsil - Kukshi, Dist. Dhar, MP – 454331 Prior Environment Clearance for Stone Quarry in an area of 1.50 Ha. (14,550 cum per annum) (Khasra No. 546/3), Village- Kawadiya Kheda, Tehsil - Kukshi, Dist. Dhar (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 546/3), Village- Kawadiya Kheda, Tehsil - Kukshi, Dist. Dhar (MP) 1.50 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 2377 dated: 29/09/2018 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 3.50 ha including this mine.

The case was presented by the PP and their consultant wherein it was observed from the Google image (Octo. 2018) that a State Highway -39 is in existence on the North- West side of the lease at a distance of approx. 130 meters and natural drain in the eastern side of the vicinity off the lease for which garland drains & settling tanks shall be provided. It was further observed that trees are within and periphery of the lease.

After presentation the committee asked to submit following details:

- Commitment that the blasting shall be done through certified blaster.
- Undertaking from PP that no tree felling shall be done.
- Revised plantation scheme as suggested by committee.
- Revised CER activities as incorporate budget for water filter and sports kit in the appropriate quantity for the nearby school.

The PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 14,550 cum per annum.
2. Control blasting shall be done through certified blaster.
3. No overcharging during blasting to avoid vibration
4. The lease area should be clearly distinguished and permanent earmarked at the site.
5. Thick plantation shall be carryout in the periphery of the lease.
6. Crusher shall be installed minimum 100 meters away from the road with 03 meters MS wind breaking wall.
7. Six monthly occupational health survey shall be carryout

8. PP should explore possibility of using solar lights in office /rest areas.
9. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
10. Water body in the northern- East - southern- west side of the lease so proper fencing /precaution should be taken.
11. Mine water should not come out from the lease.
12. No explosive will be stored at mine site.
13. Kachha road from mine site to the highway shall be made pakka and maintained by PP.
14. No dump shall be stacked outside the lease area.
15. PP shall be displayed signage and caution board in the lease.
16. Top soil shall be simultaneously used for the plantation.
17. 1500 trees shall be planted by the PP in five years, at mine's safety barrier, approach road and at village road.
18. A budgetary provision for Environmental management Plan of Rs. 5.32 Lakh as capital and Rs1.62 lakh as recurring is proposed.
19. Under CSR Rs. 0.84 Lakh /year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

5. Case No. - 5915/2019 Shree Mahendra Singh Rathore, Pipalkhunta Crusher Stone Quarry, near Village - Pipalkhunta, Tehsil - Ratlam, Dist. Ratlam, MP – 457001 Prior Environment Clearance for Crusher Stone Quarry in an area of 4.00 Ha. (8,245 cum per annum) (Khasra No. 181/1), Village- Pipalkhunta, Tehsil - Ratlam, Dist. Ratlam (MP).

This is case of Crusher Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 181/1), Village- Pipalkhunta, Tehsil - Ratlam, Dist. Ratlam (MP) 4.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 1986 dated: 28/01/2019 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 4.00 ha including this mine.

The case was presented by the PP and their consultant wherein it was observed from the Google image (May. 2018) that a SH at >500 meters in the eastern end, a natural drain is existence in the southern- western and southern- eastern side of the lease at a distance varies from : 90 meters to 120 meters .

After presentation the committee asked to submit following details:

- Commitment that the blasting shall be done through certified blaster.
- Revised plantation species as suggested by committee.

The PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 8,245 cum/annum.
2. Control blasting shall be done through certified blaster.
3. No overcharging during blasting to avoid vibration
4. The lease area should be clearly distinguished and permanent earmarked at the site.
5. Thick plantation shall be carryout in the periphery of the lease.
6. Crusher shall be installed minimum 100 meters away from the road with 03 meters MS wind breaking wall.
7. Six monthly occupational health survey shall be carryout
8. PP should explore possibility of using solar lights in office /rest areas.
9. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
10. Water body in the northern- East - southern- west side of the lease so proper fencing /precaution should be taken.
11. Mine water should not come out from the lease.
12. No explosive will be stored at mine site.
13. Kachha road from mine site to the highway shall be made pakka and maintained by PP.
14. No dump shall be stacked outside the lease area.
15. PP shall be displayed signage and caution board in the lease.

16. Top soil shall be simultaneously used for the plantation.
17. 2000 trees shall be planted by the PP in five years, at mine's safety barrier, approach road and at village road.
18. A budgetary provision for Environmental management Plan of Rs. 5.03 Lakh as capital and Rs. 1.49 lakh as recurring is proposed.
19. Under CSR Rs. 0.84 Lakh /year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement

6. Case No. - 5937/2019 M/s Shiv Krupa Mining Mineral Group, Karaihiya, Tehsil - Gunaour, Dist. Panna, MP – 488001 Prior Environment Clearance for Flag Stone Quarry in an area of 2.20 Ha. (5,942 cum per annum) (Khasra No. 18/1, 18/2), Village-Bachchaun, Tehsil - Pawai, Dist. Panna (MP).

This is case of Flag Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 18/1, 18/2), Village- Bachchaun, Tehsil - Pawai, Dist. Panna (MP) 2.20 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 234 dated: 20/02/2019 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 4.20 ha., including this mine.

The case was presented by the PP and their consultant wherein it was observed from the Google image (May. 2018) that a SH at >500 meters in the eastern end, a natural drain is existence in the southern- western and southern- eastern side of the lease at a distance varies of 90 meters to 120 meters .

After presentation the committee asked to submit following details:

- Revised EMP incorporating provision of PUC of the deployed vehicle.
- Revised CER activities as suggested by committee.

The PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production of Flagstone as per mine plan with quantity not exceeding 5,942 cum per annum.
 2. The lease area should be clearly distinguished and earmarked at the site.
 3. PP should explore possibility of using solar lights in office /rest areas.
 4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
 5. Approach road from site to the main road will be maintained by the PP.
 6. Top soil shall be simultaneously used for the plantation.
 7. If any tree falling is proposed necessary permission from the competent authority must be obtained.
 8. A budgetary provision for Environmental management Plan of Rs. 15.56 lakh (capital) is made with a recurring expenditure of 2.17 Lakh. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
 9. Under CSR Rs. 0.30 lacks/year is proposed for various activities.
7. **Case No. - 5938/2019 Shri Parimal Singh Batham S/o Shri Vrandavan Singh, Gram - Kishanpur, Tehsil - Morena, Dist. Morena, MP – 477001 Prior Environment Clearance for Sand Quarry in an area of 4.00 Ha. (1,09,401 cum per annum) (Khasra No. 204), Village- Kaithoda, Tehsil - Gohad, Dist. Bhind (MP).**

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 204), Village- Kaithoda, Tehsil - Gohad, Dist. Bhind (MP) 4.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 7378 dated: 28/02/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant. The PP stated that this is a Khodu-Bharu type sand mine and such sand deposits are accumulated in the filled due to erosion and recurrence of flood in Asan River (Tributary of Sindh River) in the long course of time. PP further stated that, this lease was obtained under temporary permit (TP) for two years period & the method of mining will be open cast semi mechanized. During presentation, committee observed that as per the Google image (Dec. 2018) trees are seen within the lease, the PP submitted that no tree felling is proposed.

After presentation the committee asked to submit following details:

- Undertaking from PP that no tree felling shall be done.
- CER activities with appropriate budget as suggested by the committee

PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee after deliberation found that The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'C':

- Production of Sand as per mine plan with quantity not exceeding 1,09,401 cum/year.
- Evacuation of sand should not be allowed through the roads passing through the villages and approach road from site to the main road will be maintained by the PP.
- 4000 trees shall be planted in the barrier zone, approach road and at nearby villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- The lease area should be clearly distinguished and earmarked at the site.
- A budgetary provision for Environmental Management Plan of Rs. 25.94 Lakh as capital and Rs. 3.85 lakh/year as recurring cost.
- In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
- Under CSR Rs.0.30 Lakh/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR

activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
- Being a Temporary Permit (TP) validity of EC should be only up to the validity of TP.
- It being a case of TP, PP has to ensure the execution of closure plan.

8. Case No. - 5939/2019 Shri Parshuram Sharma S/o Shri Balmukund Sharma, Shiv Mandir Gali, Piparipura Road, Sanjay Colony, Morena, MP – 477001 Prior Environment Clearance for Sand Quarry in an area of 0.810 Ha. (22,020 cum per annum) (Khasra No. 71, 72), Village- Hilgawan, Tehsil - Raun, Dist. Bhind (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 71, 72), Village- Hilgawan, Tehsil - Raun, Dist. Bhind (MP) 0.810 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office (Ekal Praman-Patr) vide letter No. 05 dated: 03/01/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant. The PP stated that this is a Khodu-Bharu type sand mine and such sand deposits are accumulated in the filled due to erosion and recurrence of flood in Sindh River in the long course of time. PP further stated that, this lease was obtained under temporary permit (TP) for two years period & the method of mining will be open cast semi mechanized. During presentation, committee observed that as per the Google image (June 2018) trees are seen within the lease, the PP submitted that no tree felling is proposed.

After presentation the committee asked to submit following details:

- Undertaking from PP that no tree felling shall be done.
- CER activities with appropriate budget as suggested by the committee

PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee after deliberation found that The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'C':

- Production of Sand as per mine plan with quantity not exceeding 22.020 cum/year.
- Evacuation of sand should not be allowed through the roads passing through the villages and approach road from site to the main road will be maintained by the PP.
- 1000 trees shall be planted in the barrier zone, approach road and at nearby villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- The lease area should be clearly distinguished and earmarked at the site.
- A budgetary provision for Environmental Management Plan of Rs.7.57 Lakh as capital and Rs. 1.84 lakh/year as recurring cost.
- In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
- Under CSR Rs. 1.00 Lakh/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
- Being a Temporary Permit (TP) validity of EC should be only up to the validity of TP.
- It being a case of TP, PP has to ensure the execution of closure plan.

9. Case No. - 5942/2019 Shri Balendra Gautam S/o Shri Ramayan Prasad Gautam, Virat Nagar, Tehsil & Dist. Satna, MP – 485001 Prior Environment Clearance for Murum Mine in an area of 3.350 Ha. (10,000 cum per annum) (Khasra No. 43), Village-Mugawari, Tehsil - Majhgawa, Dist. Satna (MP).

This is case of Murum Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 43), Village- Mugawari, Tehsil - Majhgawa, Dist. Satna (MP) 3.350 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office letter No. 245 dated: 24/01/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant wherein it was observed in the Google map (Dec. 2018) that the lease are on the plateau and trees are seen within the lease and natural drain is approx. 65 meters in the south side, village is in the N-W direction is about 350 meters, kachha road is also in just vicinity of the lease. PP stated that no tree felling and no drilling blasting are proposed. During presentation PP deposited Forest NOC form the Ranger Officer instead of DFO. After presentation, PP was asked to submit following information:

1. Forest NOC from the competent authority.
2. Inventory of trees existing in the lease area and commitment of PP that no trees will be up-rooted.
3. Location of settling tanks on surface map.
4. Revised EMP for maintainence of road & SWM.
5. Revised plantation as suggested @500 trees / year by the committee.

Vide letter dated 19.03.2019, PP has submitted the desired information, which was placed before the committee. After deliberations, the EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Murrum 10,000 cum per annum.
2. No trees shall be up-rooted.
3. No drilling and blasting shall be carried out.
4. The lease area should be clearly distinguished and permanent earmarked at the site.

5. Thick plantation shall be carryout in the north side where village is situated and in the road side also in the periphery of the lease.
6. Six monthly occupational health survey shall be carryout
7. PP should explore possibility of using solar lights in office /rest areas.
8. Overhead sprinklers arrangements with solar power driven pumps should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
9. Mine water should not come out from the lease.
10. Kachha road from mine site to the highway shall be made pakka and maintained by PP.
11. No dump shall be stacked outside the lease area.
12. Top soil shall be simultaneously used for the plantation.
13. 500 trees / year shall be planted by the PP at mine's safety barrier, approach road and at village road.
14. A budgetary provision for Environmental management Plan of Rs. 6.195 Lakh as capital and Rs1.45 Lakh/year.
15. Under CSR Rs. 0.70 Lakh as capital cost /years recurring has proposed. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

10. Case No. - 5932/2019 Sarpanch/Sachiv, Gram Panchayat, Village - Baturawah, Tehsil - Manpur, Dist. Umaria, MP Prior Environment Clearance for Sand Mine in an area of 1.704 Ha. (34,128 cum per annum) (Khasra No. 252), Village- Baturawah, Tehsil - Manpur, Dist. Umaria (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 252), Village- Baturawah, Tehsil - Manpur, Dist. Umaria (MP) 1.704 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office vide letter No. NIL dated: NIL has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for the presentation 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. Committee decided to call the PP in subsequent meetings.

11. Case No. - 5950/2019 M/s Shri Manya Granite, Flat No. 1, Madan Mahal, Jabalpur, MP - 486661 Prior Environment Clearance for Sand Mine in an area of 1.30 Ha. (32,500 cum per annum) (Khasra No. 521, 545, 548, 550), Village - Odhara Urph Udharaa, Tehsil - Sihaval (Bahari), Dist. Sidhi (MP).

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 521, 545, 548, 550), Village - Odhara Urph Udharaa, Tehsil - Sihaval (Bahari), Dist. Sidhi (MP) 1.30 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Mining Surveyor vide letter No. NIL dated: 23/02/2019 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 4.99 ha., including this mine.

The case was presented by the PP and their consultant. The PP stated that this is a Khodu-Bharu type sand mine and such sand deposits are accumulated in the filled due to erosion and recurrence of flood in Son River in the long course of time. PP further stated that, this lease was obtained under temporary permit (TP) for two years period & the method of mining will be open cast semi mechanized. During presentation, committee observed that as per the Google image (May 2017) trees are seen within the lease, the PP submitted that no tree felling is proposed. Only manual mining will be carried.

After presentation the committee asked to submit following details:

- Revised water balance chart.
- Revised labor deployment number.
- Undertaking from PP that no tree felling shall be done.
- Revised EMP & CER activities with appropriate budget as suggested by the committee

PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence

committee after deliberation found that The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'C':

- Production of Sand as per mine plan with quantity not exceeding 32,500 cum/year.
- Evacuation of sand should not be allowed through the roads passing through the villages and approach road from site to the main road will be maintained by the PP.
- Mining will be carried out by manually.
- 300 trees/ year shall be planted in the barrier zone, approach road and at nearby villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- The lease area should be clearly distinguished and earmarked at the site.
- A budgetary provision for Environmental Management Plan of Rs. 7.20 Lakh as capital and Rs. 4.40 lakh/year as recurring cost.
- In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
- Under CER Rs. 1.64 Lakh/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
- Being a Temporary Permit (TP) validity of EC should be only up to the validity of TP.
- It being a case of TP, PP has to ensure the execution of closure plan.

12. Case No. - 5951/2019 Sarpanch, Gram Panchayat, Village - Khuteli, Tehsil - Sihaval, Dist. Sidhi, MP – 486661 Prior Environment Clearance for Sand Mine in an area of 2.24 Ha. (1,12,000 cum per annum) at (Khasra No. 390), Village - Khuttelii, Tehsil - Sihaval, Dist. Sidhi (MP).

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 390), Village - Khuttelii, Tehsil - Sihaval, Dist. Sidhi (MP) 2.24 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Mining Surveyor vide letter No. NIL dated: 23/02/2019 has reported that there is 02 more mines operating or proposed within 500 meters around the said mine with total area of 4.99 ha. including this mine.

The case was presented by the PP and their consultant. The PP stated that this is a Khodu-Bharu type sand mine and such sand deposits are accumulated in the filled due to erosion and recurrence of flood in Son River in the long course of time. PP further stated that, this lease was obtained under temporary permit (TP) for two years period & the method of mining will be open cast semi mechanized. During presentation, committee observed that as per the Google image (May 2017) trees are seen within the lease, the PP submitted that no tree felling is proposed. Only manual mining will be carried out.

After presentation the committee asked to submit following details:

- Covering letter of approved Mining plan.
- Revised water balance chart.
- Revised labor deployment number.
- Commitment from PP that evacuation road width shall be increased from 3 meters to 6 meters.
- Undertaking from PP that no tree felling shall be done.
- Revised EMP & CER activities with appropriate budget as suggested by the committee

PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee after deliberation found that The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'C':

- Production of Sand as per mine plan with quantity not exceeding 1, 12,000 cum/year.

- Evacuation of sand should not be allowed through the roads passing through the villages and approach road from site to the main road will be maintained by the PP.
- Mining will be carried out by manually.
- 800 trees/year shall be planted in the barrier zone, approach road and at nearby villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- The lease area should be clearly distinguished and earmarked at the site.
- A budgetary provision for Environmental Management Plan of Rs. 7.20 Lakh as capital and Rs. 4.40 lakh/year as recurring cost.
- In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
- Under CER Rs. 1.64 Lakh/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
- Being a Temporary Permit (TP) validity of EC should be only up to the validity of TP.
- It being a case of TP, PP has to ensure the execution of closure plan.

13. Case No. - 5934/2019 Shri Narendra Singh S/o Shri Mazboot Singh, House No. 382, E.W.S., Ayodhya Bypass, Bhopal, MP – 462041 Prior Environment Clearance for Crusher Stone Quarry in an area of 1.00 Ha. (15,000 cum per annum) (Khasra No. 203/136/1Kha, 211/135/1/1, 211/135/1/4/2), Village- Panari, Tehsil - Budhni, Dist. Sehore (MP).

This is case of Crusher Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 203/136/1Kha, 211/135/1/1, 211/135/1/4/2), Village- Panari, Tehsil - Budhni, Dist. Sehore (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 9370 dated: 02/01/2019 has reported that there are 02 more mine operating or proposed within 500 meters around the said mine with total area of 4.066 ha., including this mine.

The case was presented by the PP and their consultant wherein it was observed from the Google image (Sep. 2018) that the proposed mine is filled with water and need de-watering for which a plan is to be submitted by PP. During appraisal of the case it was also observed the most part of the lease is excavated for which PP submitted that un-excavated area is available. Committee asked PP to submit photographs of the mine area where mineral is available. During appraisal it was also discussed that mining will be done below 06 meter depth for which PP shall obtain DGMS approval. Considering the area of only 1.00 ha., and proposal of mining >06 meter depth, PP was also asked to submit available floor area at the pit depth for machine deployment and working. The other futures falling within the 500 meters of the lease are

1. In the western side of the lease a village pakki road at a distance of <30 meter.
2. NH-12 at >230 meters approx., in the southern end.
3. In the eastern end at a distance of > 180 meters another village pakki road is in existence.

After presentation the committee asked to submit following details:

- Submit dewatering plan.
- PP shall be submit copy of the application apply for DGMS permission as mining is proposed for more than 6 meter depth.
- Revised plantation scheme as suggested by committee as per suggestion total 950 plants.
- Considering the area of only 1.00 ha., and proposal of mining >06 meter depth, submit available floor area at the pit depth for machine deployment and working.
- Revised EMP incorporating provision of PUC of the deployed vehicle.
- Revised CER activities as incorporate budget for water filter, school furniture and sports kit in the appropriate quantity for the nearby school.
- Submit photographs of lease area.

14. Case No. - 5861/2019 Shri Abhishek Arora S/o Shri Ashok Arora, Kasturba Ward, Dist. Seoni, MP – 480661 Prior Environment Clearance for Stone Quarry in an area of 2.850 Ha. (60,834 cum per annum) (Khasra No. 211), Village- Chargaon, Tehsil - Kurai, Dist. Seoni (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 211), Village- Chargaon, Tehsil - Kurai, Dist. Seoni (MP) 2.850 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter no 1833 dated: 09/01/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

Earlier this case was scheduled in 345th SEAC meeting dated 21/02/2019 wherein neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

The case was scheduled for the presentation 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. Committee decided to call the PP in subsequent meetings.

15. Case No. - 5862/2019 Shri Rakesh Sanodiya S/o Shri Korsingh Sanodiya, Kidwai Ward, Dist. Seoni, MP – 480661 Prior Environment Clearance for Stone Quarry in an area of 2.790 Ha. (59,502 cum per annum) (Khasra No. 191), Village- Chargaon, Tehsil - Kurai, Dist. Seoni (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 191), Village- Chargaon, Tehsil - Kurai, Dist. Seoni (MP) 2.790 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 1833 dated: 09/01/2019 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 3.790 ha including this mine.

Earlier this case was scheduled in 345th SEAC meeting dated 21/02/2019 wherein neither the Project Proponent (PP) nor his representative was present to explain the query which might be

raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

The case was scheduled for the presentation 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. Committee decided to call the PP in subsequent meetings.

16. Case No. - 5936/2019 Sarpanch, Gram Panchayat, Village - Mowad, Tehsil - Khairlanji, Dist. Balaghat, MP Prior Environment Clearance for Sand Mine in an area of 4.202 Ha. (94,545 cum per annum) (Khasra No. 209/1 Part), Village- Mowad, Tehsil - Khairlanji, Dist. Balaghat (MP).

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 209/1 Part), Village- Mowad, Tehsil - Khairlanji, Dist. Balaghat (MP) 4.202 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. NIL dated: NIL has reported that there are no more mine operating or proposed within 500 meters around the said mine.

The case was scheduled for the presentation 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. Committee decided to call the PP in subsequent meetings.

17. Case No. - 5952/2019 M/s Hoswin Incinerator Pvt. Ltd, Plot No. 196 A & 196-B, Sector-F, Industrial Area, Sanwer Road, Indore, MP Prior Environment Clearance for Common Bio Medical Waste Treatment Facility through 500 Kg per hour rotary kiln based medical incineration project Land area- 4550 sq.mt. (1.125 acre) at Plot No. 196 A & 196-B, Sector-F, Industrial Area, Sanwer Road, Indore, (MP). Env.Cons-Creative Enviro Services.

The proposed project is for setting up of common bio-medical waste treatment facility and project falls under Category "B" Projects of activity 7 (da) as per EIA Notification

dated 14th September, 2006 and its subsequent amendments dated 17th April 2015, under Bio-Medical Waste Treatment Facilities. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

The executive summary of the project are as follows:

FOR industry PROJECTS																							
S. no.	Particular		Details																				
1	Name of the project & its location	:	Capacity expansion in manufacturing Of Chemicals and Drugs Intermediates PLOT NO. 1 & 2-2A, NEW INDUSTRIAL AREA 02, AB ROAD DEWAS MADHYA PRADESH																				
2	Name of the Company, Address Tele No. & E-mail		M/s, Hoswin Incinerators Pvt. Ltd. 363 A Mahalaxmi Nagar Main Road, Indore (MP)																				
3	Latitude and Longitude of the project		22°46'42.16"N- 75°51'05.46"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		Modernization , 1.125 Acres (4550 Sq Meter) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sl. No.</th> <th>Equipment</th> <th>Number</th> <th>Installed Capacity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Rotary Kiln</td> <td>01</td> <td>500 kg per hr</td> </tr> <tr> <td>2</td> <td>Autoclave</td> <td>01+01</td> <td>500 kg per batch</td> </tr> <tr> <td>3</td> <td>Shredder</td> <td>01+01+01+01</td> <td>300 kg per hour</td> </tr> <tr> <td>4</td> <td>Effluent Treatment Plant</td> <td>01</td> <td>15 KLD</td> </tr> </tbody> </table>	Sl. No.	Equipment	Number	Installed Capacity	1	Rotary Kiln	01	500 kg per hr	2	Autoclave	01+01	500 kg per batch	3	Shredder	01+01+01+01	300 kg per hour	4	Effluent Treatment Plant	01	15 KLD
Sl. No.	Equipment	Number	Installed Capacity																				
1	Rotary Kiln	01	500 kg per hr																				
2	Autoclave	01+01	500 kg per batch																				
3	Shredder	01+01+01+01	300 kg per hour																				
4	Effluent Treatment Plant	01	15 KLD																				
6	Cost of the project		Existing : 4.36Crore																				
7	Whether the project is in the Critically Polluted Area (CPA):		NA																				
8	If the project is for EC under EIA Notification, 2006																						
a)	For the first time appraisal by EAC		Yes																				
(i)	Date of ToR:		NA																				
(ii)	Date of Public Hearing, location		NA																				
(iii)	Major issues raised		NA																				

	during PH and response of PP		
b)	Second appraisal		NA
(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		NA
(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, (ii) status of clearance from National Board for wild life		NA
11	Waste Management		
(i)	Water requirement, source, status of clearance		The total fresh water requirement for the project will be approx. 15KLD, which will be sourced from IDC.
(ii)	Waste water quantity, treatment capacity, detail		Total waste water generation and treated in ETP will be 7.80 KL/day. The existing ETP is 15 KL/day
(iii)	Recycling / reuse of treated water and disposal		The treated water will be used for cooling towers, floor washing and gardening/green belt
(iv)	Solid Waste Management		<p>Collection and Transportation of Bio medical Waste</p> <ul style="list-style-type: none"> Biomedical Waste segregated in color coded containers as per Biomedical Waste Management and Handling Rules shall be collected from various Health Care Facilities located in the 150 Km radius (Covering 10000 beds) The collected waste shall be transported in specially designed closed vehicle to the proposed CBWTF for treatment and disposal. M/s BMW Solutions is intending to have 6- 7 closed vehicles for the Collection & transportation of bio-medical waste to proposed facility. Sewerage system-

			<ul style="list-style-type: none"> • Solid waste generated during the biomedical waste treatment process and wastewater treatment process is mainly ash and sludge which will be generated depending upon the hydraulic load. Sludge will be disposed off in secured landfill. The disinfected plastic waste shall send for recycling to registered recycler.
(v)	Hazardous Waste Management		HSD will used for the DG sets. The waste oil from DG set and machineries shall be stored in MS drums and shall be disposed of to authorize recyclers under direction of SPCB.
12	Other details		
(i)	Noise Modeling with noise control measures for airports		
(ii)	Details of water bodies, impact on drainage if ant		Khan River -1.50 km Local Nala- 0.75 km
(iii)	Details of tree cutting		NO
(iv)	Energy conservation measures with estimated saving		No
(v)	Green belt development (20 % of construction projects and 33 % for others)		Existing : 50sqm with 20 no. of plants. Proposed: 1500sqm Acers with 300 no of plants
(vi)	Parking requirement with provision made		Details will be given in EIA
13	If the project involves foreshore facilities		NA
(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		NA
(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		
(iii)	location of intake / outfall. Quantity,		
(iv)	detail of monitoring at outfall		
(v)	Any other relevant information		
15	Other information		
(i)	Investment/Cost of the project is Rs.....(in crore).		Existing : 2.36 Crore
(ii)	Employment potential.....		Existing 60
(iii)	Benefits of the project		Employment and CSR activities
16	Date of Ground water clearance		NA
17	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost		Given in EIA
18	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions		Existing : 50sqm with 20 no. of plants. Proposed: 1500sqm Acers with 300 no of plants
19	Any river/Nallha flowing near or adjacent to the proposed plant. If yes, please give details		Khan River -1.50 km Local Nala- 0.75 km

The case was presented by the PP and their consultant wherein PP submitted that this will be a new facility which will be developed. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TORs and as per Annexure-D:

1. Earlier CPCB complience is to be submitted in the final EIA report.

2. Detail of the gap analysis.
3. In EIA report PP should provide the details of equipment and machineries which will be relocated and used at the new site.
4. Detailed layout plan of the site should be discussed in the EIA report.
5. Storage plan for different kind of waste should be discussed in the EIA report.
6. PP should also provide the details of any waste material stored in the existing plant premises and their proposed disposal.
7. In case PP intends to use ground water, permission of CGWB should be obtained in accordance with the prevailing rules.
8. Facility should be developed in accordance with the provisions made in the Bio-Medical Waste Management Rules, 2016 published by GOI and Guidelines published by CPCB for Common Bio-medical Waste Treatment Facilities.
9. Justify in EIA report, how unit will remain zero discharge.
10. Disposal plan of autoclaved material should be discussed in the EIA report.

18. Case No. - 5955/2019 Shri Gotulal S/o Shri Ratan Lal Gurjar, Village - Savan, Tehsil & Dist. Neemuch, MP Prior Environment Clearance for Stone (Gitti) Quarry in an area of 2.00 Ha. (10,000 cum per annum) (Khasra No. 4, 5), Village - Thikriya, Tehsil - Neemuch, Dist. Neemuch (MP).

This is case of Stone (Gitti) Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 4, 5), Village - Thikriya, Tehsil - Neemuch, Dist. Neemuch (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 1557 dated: 04/02/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant wherein it was observed by the committee as per Google image (Dec. 2018) based on the co-ordinates provided by PP that proposed mine is in the close proximity of a dam (470 meters approx) which is on the River Borkhedi. Also the downstream river is just 50 meters away in the western side and as per MMR Rules 1996, minimum 100 meters area should be left from the water body. Committee having an apprehension that this mine may come into inundation during rainy season in case

there is discharge from the dam and will be threat to the safety of workers thus asked PP to submit NOC from competent authority of dam for operation of mine at this location which will also have impacts due to blasting. After presentation, committee asked PP to submit response on following:

1. A river is just 50 meters away in the western side of lease and as per MMR Rules 1996; minimum 100 meters area should be left from the water body. Thus revised operational production plan leaving 100 meters area as non mining area.
2. NOC from competent authority of dam for operation of mine at this location which will also have impacts due to blasting.
3. NOC from gram Sabah.

19. Case No. - 5958/2019 Shri Siddhgopal Ahirwar S/o Shri Shyamlal Ahirwar, Village - Barua, Tehsil - Gaurihar, Dist. Chhatarpur, MP Prior Environment Clearance for Sand Quarry in an area of 0.810 Ha. (27,918 cum per annum) (Khasra No. 610/13/2), Village - Barua, Tehsil - Gaurihar, Dist. Chhatarpur (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 610/13/2), Village - Barua, Tehsil - Gaurihar, Dist. Chhatarpur (MP) 0.810 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 1216 dated: 20/2/2019 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 4.928 ha including this mine.

The case was presented by the PP and their consultant. The PP stated that this is a Khodu-Bharu type sand mine and such sand deposits are accumulated in the filled due to erosion and recurrence of flood in Ken River in the long course of time. PP further stated that, this lease was obtained under temporary permit (TP) with two years validity & the method of mining will be open cast semi mechanized. As per the Google image it was observed that approx 08 to 10 trees are in existence in lessee. PP submitted that no tree will be uprooted during mining. After presentation the committee asked to submit following details:

- Revised budget for Occupational Health check- up, PPE's, First Aid, PUC, shelters & toilet for workers.

PP has submitted the response of above quarries same date vide letter dated 19.03.2019, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee after deliberation found that the EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'C':

- Production of Sand as per mine plan with quantity not exceeding 27,918 cum per annum.
- Evacuation of sand should not be allowed through the roads passing through the villages and approach road from site to the main road will be maintained by the PP.
- Total 1000 trees @ 500 per year in two year shall be planted in the barrier zone, approach road and at nearby village.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- The lease area should be clearly distinguished and earmarked at the site.
- Water sprinkling will be through over head sprinklers.
- A budgetary provision for Environmental Management Plan of Rs. 7.92 Lakh (capital) is made with a recurring expenditure of 2.24 Lakh /year.
- In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
- Under CSR Rs. 0.80 Lakh /year is proposed for Contribution for Infrastructure development like maintenance of classrooms & fencing of play ground of school nearby in the Rampurghat village. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
- Being a Temporary Permit (TP) validity of EC should be only up to the validity of TP.

- It being a case of TP, PP has to ensure the execution of closure plan.

20. Case No. 4070/15 Shri Om Prakash Rai R/o P.O. Maihar, District-Satna (MP)-485771 Prior Environment Clearance for approval of Barahiya Limestone Mine in an area of 2.017 ha. (Lime Stone – 17,600 TPA and Reject Stone – 10,000 TPA) at Khasra no.-206, 128, 204, 214, 133, 134, 126, 127, 205, 212, 213, Village-Barahiya, Tehsil-Maihar, District-Satna (MP).

The case was presented by the PP and their consultant in 267th SEAC meeting dated 15/01/2016. It being a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Inventory of operating / proposed mines within 2 Km around the said mine.
2. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
3. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
4. Any alternate route avoiding the nearby habitations.

The case was discussed in 344th SEAC meeting dated 30/01/2019 as ToR Valid was up to 14/01/2019. Since PP neither has applied for TOR validity expansion nor has submitted EIA report, case may be deleted.

SEIAA forwarded this case file to SEAC vide letter no 2439 dated 01/03/2019 stating that: PP has submitted an application on 21.01.2019 with revised Form-I and PFR for reconsideration the case as per OM dated 29.08.2017 issued by MoEF&CC and requested to extend ToR validity for one year from the completion of three years with additional capacity of Reject Stone 10,000 TPA.

The case was presented by the PP and their consultant wherein during discussion PP informed that there is no change in the production and requested committee that in the light of the above notification dated 29/08/2017 for extension in the validity of TOR for one year. After deliberations, the committee recommends that the TOR validity may be extended for one year with validity up to 13/01/2020 based on revised from-1 and PFR submitted by PP as per MoEF&CC OM No. J-11013/41/2006-IA-II (I) (part) dated 29/08/2017.

21. Case No.4192/15 Shri Sanjeev Kumar Pathak R/o Chanakyapuri, Semariya Chowk, P.O. & District-Satna (MP)-485001. Prior Environment Clearance for approval of

Lakhanwah Limestone, Laterite & Reject Stone Mine in an area of 4.047 ha. (50,000 TPA) at Khasra No.- 298P, 299P, Village-Lakhanwah, Tehsil-Rampur Baghelan, District-Satna (MP)

This is case of Limestone, Laterite & Reject Stone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.- 298P, 299P, Village-Lakhanwah, Tehsil-Rampur Baghelan, District-Satna (MP) 4.047 ha. The project requires prior EC before commencement of any activity at site.

The case was presented by the PP and their consultant in 03rd SEAC-II meeting dated 04/02/2016. Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Inventory of operating / proposed mines within 2 Km around the said mine.
2. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
3. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
4. Any alternate route avoiding the nearby habitations.
5. Top soil management plan.
6. Compliance of the conditions of working permissions of DGMS.
7. Compliance of consent conditions issued by M. P. Pollution Control Board from the concerned Regional Officer.

This case was scheduled in this meeting as the ToR validity of this case was lapse whereas it was recorded by the committee from the submitted documents that:PP has submitted an application on 10.01.2019 with revised Form-I and PFR for reconsideration the case as per OM dated 29.08.2017 issued by MoEF&CC and requested to extend ToR validity for one year from the completion of three years, which was forwarded through SEIAA vide letter no 2561 dated 08/03/2019.

The case was presented by the PP and their consultant wherein during discussion PP informed that there is no change in the production and requested committee that in the light of the above notification dated 29/08/2017 for extension in the validity of TOR for one year. After deliberations, the committee recommends that the TOR validity may be extended for one year with validity up to 08.03.2020 based on revised from-1 and PFR submitted by PP as per MoEF&CC OM No. J-11013/41/2006-IA-II (I) (part) dated 29/08/2017.

Query Reply Discussion

22. Case No. - 5887/2019 Shri Ravi Pratap Singh, S/o Shri Jangbahadur Singh, R/o Hirapur, Tehsil - Shahganh, Dist. Chhatarpur, MP Prior Environment Clearance for Stone Quarry

in an area of 2.255 Ha. (5,002 cum per annum) (Khasra No. 196P), Village- Mandhpur, Tehsil - Buxwaha, Dist. Chhatarpur (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 196P), Village- Mandhpur, Tehsil - Buxwaha, Dist. Chhatarpur (MP) 2.255 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter dated: 19/07/2018 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant in the 347th SEAC meeting dated 28/02/2019. During presentation, committee observed in the Google image that a village road in the south-west side at a distance of approx. 60mts and it was also observed that a natural drain is in existence about 150 meters away from the lease thus garland drains and settling tanks of suitable sizes shall be provided. After presentation the committee was asked to PP to submit following information:

1. Revised EMP with appropriate budget for fixed pipe sprinklers, PPE's, first aid, SWM and fire fighting with its capital and recurring cost.
2. O.B. management plan with its estimation of soil and waste in O.B.
3. Proposal for garland drains and settling tank with its dimension.
4. Litholog of the area.
5. Method of mining with details of machines deployed and number of workers with them.
6. No maps (such as surface, production, environment etc) are submitted with mine plan. However, during presentation PP presented the case as per original maps. Copy of all the approved maps shall be submitted.
7. Revised CSR as suggested during presentation.

The PP has submitted the response of above quarries vides dated 05/03/2019 letter, which was placed before the committee in this meeting and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 5,002 cum per annum.
2. Control blasting shall be done through certified blaster.

3. No overcharging during blasting to avoid vibration
4. The lease area should be clearly distinguished and permanent earmarked at the site.
5. Thick plantation shall be carryout in the periphery of the lease.
6. Crushed shall be installed minimum 100 meters away from the road with 03 meters high MS wind breaking wall.
7. Six monthly occupational health survey shall be carryout
8. PP should explore possibility of using solar lights in office /rest areas.
9. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
10. Mine water should not come out from the lease.
11. No explosive will be stored at mine site.
12. Kachha road from mine site to the highway shall be made pakka and maintained by PP.
13. No dump shall be stacked outside the lease area.
14. PP shall be displayed signage and caution board in the lease.
15. Top soil shall be simultaneously used for the plantation.
16. 2000 trees shall be planted by the PP in five years, at mine's safety barrier, approach road and at village road.
17. A budgetary provision for Environmental management Plan of Rs. 10.82 Lakh is proposed.
18. Under CSR Rs. 0.5 Lakh /year as capital and Rs. 1.0 Lakh /year as recurring cost for cattleshed, food and safety is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

23. Case No. - 5896/2019 Shri Sudhir Yadav S/o Shri Ram Singh Yadav, R/o Maraimaliya, Dist. Sagar, MP Prior Environment Clearance for Stone Quarry in an area of 2.00 Ha. (9,738 cum per annum) (Khasra No. 125/1), Village- Madanpura, Tehsil - Sagar, Dist. Sagar (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 125/1), Village- Madanpura, Tehsil - Sagar, Dist. Sagar (MP) 2.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, 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 Office vide letter No. 615 dated: 04/01/2018 has reported that there are no mores mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant in the 348th SEAC meeting dated 01/03/2019. During presentation it was recorded that as per Google image that a Kachcha road is passing from the western side of the lease which is approx. 55 meters away. For the safety of road, committee recommends that the mine shall be advanced from east side and phase shall be oriented from west to east with three row plantation. It was also observed that a natural drain is in existence towards North- Eastern side of the lease approx. 20 meters away thus garland drains and settling tanks of suitable sizes shall be provided. After presentation the committee was asked to PP to submit following information:

1. Copy of Gram Sabah NOC is to be submitted by the PP.
2. Revised CSR incorporating infrastructure development, smart classes, and vocational women training in nearby villages as suggested during presentation.
3. Revised EMP by incorporating OHS, PPE's, solid waste treatment plan, shelters for labors and fire safety precautions.
4. Revised plantation as suggested by the committee.
5. Method of mining with details of machines deployed and number of workers with them.
6. Location and dimensions of Garland drain and settling tank as per the contour.

Vide letter dtd. 05.03.2019, the PP has submitted the desired information, which was placed before the committee. After deliberations committee decided that as the EMS and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 9,738 cum/annum.
2. The lease area should be clearly distinguished and permanent earmarked at the site.
3. Thick plantation (three rows at road side) shall be carryout in the periphery of the lease.
4. Bench configuration shall be 3x4.5 meters considering the safety and movement of man & machines.
5. Transportation of material shall be done in covered vehicles.
6. Transportation of minerals shall not be carried out through forest area.
7. Six monthly occupational health surveys shall be carryout.

8. PP should explore possibility of using solar lights in office /rest areas.
9. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
10. No overcharging during blasting to avoid vibration.
11. Muffle blasting shall be adopted.
12. Mine water should not come out from the lease without proper settling.
13. No explosive will be stored at mine site.
14. No dump shall be stacked outside the lease area.
15. Top soil shall be simultaneously used for the plantation.
16. A crusher is also proposed within the lease area for which wind breaking wall of minimum 03 meters height of MS should be erected all around the crusher to avoid fugitive emissions and crusher shall be minimum 100 meters away from the road.
17. 2000 trees shall be planted by the PP in five years, at mine's safety barrier, approach road and at village road.
18. A budgetary provision for Environmental management Plan of Rs. 9.52 Lakh per year is proposed.
19. Under CSR Rs. 1.50 lakh/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

(Dr. Mohd. Akram Khan)
Member

(Dr. A.K. Sharma)
Member

(Dr. J. P. Shukla)
Member

(Dr. Rubina Chaudhary)
Member

(Mohd. Kasam Khan)
Chairman

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

Annexure- 'A'

Standard conditions applicable to Stone/Murrum and Soil quarries:

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

Annexure- 'B'

Standard conditions applicable for the sand Mine Quarries*

1. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Plantation shall be carried out on the banks for stabilization of the banks.
5. The mining activity shall be done manually.
6. No heavy vehicles shall be allowed to enter the river bed and the transportation of the sand from the excavation pits of the leased area to the loading point shall be through trollies (tractor trollies) and not by heavy vehicles. Only registered tractor trollies which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
7. NOC of gram panchayat should be obtained for the water requirement.
8. Transport vehicles will be covered with 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. Heavy vehicles shall not be allowed for removal of sand.
7. The sand shall be transported by small trolleys up to the main transport vehicle.
8. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
9. No Mining shall be carried out during Monsoon season.
10. PP shall take Socio-economic activity in the region through the 'Gram Panchayat'.
11. NOC of gram panchayat should be obtained for the water requirement.
12. EC will be valid for mine lease period/mine plan subject to a ceiling of 5 years.
13. The mining shall be carried out strictly as per the approved mining plan.

Annexure- 'D'

General conditions applicable for the granting of TOR

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
3. An inventory of flora & fauna based on actual ground survey shall be presented.
4. Risk factors with their management plan should be discussed in the EIA report.
5. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
6. The EIA document shall be printed on both sides, as far as possible.
7. All documents should be properly indexed, page numbered.
8. Period/date of data collection should be clearly indicated.

9. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
10. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
11. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
12. Grant of TOR does not mean grant of EC.
13. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
14. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
15. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
16. All the necessary NOC's duly verified by the competent authority should be annexed.
17. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
18. 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.
19. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
20. 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.
21. 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.
22. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
23. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

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

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