

The 433rd meeting of the State Expert Appraisal Committee (SEAC) was held on 19th May, 2020 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting in person or through video conferencing -

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

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

1. Case No. – 6394/2019 M/s. Medilux Laboratories Pvt. Ltd, Plot No. 98 - 99, Sector - 1, Industrial Area, Pithampur, Dist. Dhar, MP – 454775. Prior Environment Clearance for Capacity Expansion from 400 TPA to 1,000 TPA in Bulk Drugs, Fine Chemicals, API & its Intermediates Production facility at Plot No. 98-99, Pithampur Industrial Area, Sector-1, Pithampur, Dist. Dhar , MP.

This is case of Prior Environment Clearance for Capacity Expansion from 400 TPA to 1,000 TPA in Bulk Drugs, Fine Chemicals, API & its Intermediates Production facility at Plot No. 98-99, Pithampur Industrial Area, Sector-1, Pithampur, Dist. Dhar, MP. The project requires prior EC before commencement of any activity at site.

Earlier this case was scheduled for presentation and discussion in 389th SEAC meeting dated 09/08/2019, wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 02/05/2020 which was forwarded through SEIAA vide letter no. 5 dated 04/05/2020, which was placed before the committee.

This case was scheduled for the EIA presentation and discussion where PP and their consultant were present through video conferencing. In commencement of the presentation committee has observed that PP vide letter 01.05.2020 has requested that in the context of pandemic COVID - 19, GoI's MoEF&CC issued a OM vide dated 13.04.2020, for considering the API & Bulk drug Projects will be considered as B-2 category. Then after, PP has submitted following project details:

- Medilux Laboratories Pvt. Ltd. received Environment Clearance for Expansion of Bulk Drugs Vide letter no. J-11011/1141/2007-IA dated 09/04/2008 in the name of Medilux Life Sciences (A unit of Medilux Laboratories Pvt. Ltd.) for manufacturing of Bulk drugs and Intermediates for 400 TPA.
- The unit is having Plant-I and Plant-II and it is proposed to utilize certain equipment of Plant and new plant will be established over plot no 98 to achieve the proposed increase of 600 TPA whereas plant –II will be remained with capacity of 400 TPA.
- Medilux Laboratories Pvt. Ltd. Bulk Drugs, Fine Chemicals API, & its Intermediates manufacturing company based at Indore in Central India, is in the business of development, production and marketing of research-based APIs. It is an operational unit and producing bulk drug and intermediates in the tune of 400 TPA. Considering the market scenario, Medilux is proposing expansion in production from 400 TPA to 1000 TPA at plot no. 98-99, Sector-1, Industrial area Pithampur dist. Dhār (M.P.)
- Medilux Laboratories Pvt. Ltd. received Environment Clearance for Expansion of Bulk Drugs Vide letter no. J-11011/1141/2007-IA dated 09/04/2008 in the name of Medilux Life Sciences (A unit of Medilux Laboratories Pvt. Ltd.) for manufacturing of Bulk drugs and Intermediates for 400 TPA.
- The unit is having Plant-I and Plant-II and it is proposed to utilize certain equipment of Plant and new plant will be established over plot no 98 to achieve the proposed increase of 600 TPA whereas plant –II will be remained with capacity of 400 TPA. The total area of the plot is 17000 sq meters. The total fixed cost of the project is estimated as INR 66 Crore for existing and 27 Crores for proposed project.
- The major facilities involved are Boiler, MEE, Reactors, Cooling Towers, Effluent Treatment Plant (ETP), and R.O Plant Facilities like administrative office, parking and greenbelt/plantation will also be developed as per plan/requirement.
- The industrial water requirement for the existing project is 151 KL per day which will be increased to 355 KLD and sourced from AKVN supply. Total cumulative waste water generation from existing and proposed unit will be 104.5 to 229 KLD.
- The existing capacity of ETP, RO and MEE is 100 KLD, 150 KLD, 12 KLD, respectively and after capacity expansion the capacity will be 150 KLD, 200 KLD, 50 KLD respectively.
- Presently 51 KLD water is being recycled and therefore net fresh water requirement is observed as 116 KLD whereas after capacity expansion 119 KLD water will be

recycled and net fresh water requirement will be 236 KLD. The rejected water will be reused for floor washing and gardening/green belt.

- Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility, as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008 (Amendment 2016). M/s MLPL will take authorization Under Hazardous Waste (Management, Handling & Transboundary Movement), Rules.
- Power requirement is/will be sourced from existing line of 'Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company'. The company is already authorized to use power load of 2000 KVA. In case of power failure, D.G. set (Existing 320 KVA x 2 and proposed 500- KVA) will be used as a backup power source.
- The M/s MLPL is having existing workers 375 numbers and will have total manpower of approx. 500 after expansion and are/will be from Pithampur and nearby villages/area and therefore no residential planning has been incorporated.
- **Rs. 1390 Lacs** (capital cost) is allocated for environmental management systems and the annual re-occurring cost for the same is **Rs 39.10 Lacs/annum**, as well as **Rs. 27.4 Lacs** is allocated for Corporate Environment Responsibility (CER) Activities.

Salient Features of the Project		
Sr. No.	Component	Status
1	Name	M/s Medilux Laboratories Pvt. Ltd.
2	Location	Pithampur
3	Product type	Bulk Drugs, Fine Chemicals API, & its Intermediates
4	Project Type	Expansion
5	Schedule as per EIA notification	5 (f)
6	Category of Project	MSME
7	Area Details in Sq Meter	
I	Total Plot Area	17000sq meter
ii	Built up Area	13072.20 sqm
iii	Green belt Area	1606.00sqm + 4100 Sq mtrs
8	Production Details	
i	Production Capacity	From 400 to 1000TPA
9	Budgetary Allocation	
i	Project Cost	27.0258 Cr for capacity expansion
II	EMP Cost	Capital – 3.90 Cr, Recurring – 0.39 Cr
10	Power Requirement	
i	Proposed Connected Load (KW)	
ii	Total Power Requirement	2000kva
iii	Source	MPSEB

11	Fuel Requirement			
i	Briquette/Coal	0.60T/day		
ii	HSD For DG Set	60lit/hour		
12	DG Set Details			
i	D.G. Set	Existing – 320KVA (02No.) Proposed – 500KVA (01No.s)		
13	Utility Capacity			
i	Steam Boiler	Sr. No.	Capacity	Fuel Type
		1	3000kg/hr	Briquette/coal
		2	1500kg/hr	LDO
14	Scrubber Details			
i	Acid scrubber	1200CMH		
ii	Alkali Scrubber	1200CMH		
15	Stack Details			
i	Boiler Stack	550 MM DIA.X 28M HEIGHT (FOR 1500KG/HR) 550 MM DIA.X 28 M HEIGHT (FOR 3000 KG/HR)		
ii	Scrubber Stack	4 m from roof top level		
iii	D.G. Set	4meter above roof		
16	Man Power Details			
i	Man Power	Construction phase		100-150
		Operation phase		500 workers per day (60workers per shift)
17	Water Details			
i	Total Water Requirement	355 KLD		
18	Effluent Details			
	Total effluent generation from process	229 KLD		
19	ETP Details			
i	HCOD/HTDS Effluent	Effluent will be segregated as High COD/High TDS & Low COD/Low TDS Effluent		
		High COD/high TDS Effluent will be treated in stripper column followed by MEE with Agitated thin film dryer. The effluent will further be treated in ETP followed by RO system.		
		Low COD/Low TDS Effluent will be treated in a Effluent Treatment Plant comprising of Primary, Secondary & Tertiary treatment like sand filter carbon filter and then RO system. Effluent further will be treated in RO System The effluent after treatment in ETP and RO system will be reused within the company premises as cooling tower makeup water and boiler feed.		

Details of Products

Sr. No.	Existing Products & Production Capacity		Proposed Products & Production Capacity	
	Product Name	Capacity (MTPA)	Product Name	Capacity (MTPA)
1.	Baclofen	400	Defrasirox	600
2.	Trazadone Hydrochloride		Hydroquinone	
3.	Torsemide		Raloxifene Hydrochloride	
4.	Xipamide (Product To be deleted)		Timolol maleate	
5.			Inosine pranobex	

6.			Bisoprolol Fumarate	
7.			Tofisopam	
8.			Penfluridol	
9.			Dapsone	
10.			Glimepiride	
11.			Azosemide	
12.			Anagliptin	
13.			Rivastigmine tartrate	
14.			Iproniazide phosphate	
15.			Buspirone hydrochloride	
16.			Mirtazapine	
17.			Pentetate calcium trisodium	
18.			Ziprasidone Hydrochloride	
			Products Under Development	
19.			Iguratimod	
20.			Garenoxacin	
21.			Denatonium Benzoate	
22.			Potassium Iodide	
23.			Metacresol	
24.			Maropitant	
25.			Iversol	
26.			Clozapine	
		Total	400	600
		Grand Total (Existing + Proposed)	1000 MT/Annum (400 MTPA+600 MTPA)	

During presentation PP submitted that they have applied for MoEF&CC compliance report of earlier EC conditions but same could not be issued due to lockdown and their case shall not be detained due to this compliance report as they are helpless in this situation. PP further submitted that MoEF&CC has also issued instruction for API projects as B2 (dated 27/03/2020) and thus their case may be recommended to SEIAA with a condition to submit compliance report as it is issued by authority. Committee discussed the issue and recommends that on the above request of PP, case may be recommended to SEIAA with a condition that EC may be issued only after the receipt of MoEF&CC compliance report of earlier EC conditions. After presentation, PP was asked to submit of following details:

1. Copy of form-4 related to generation and disposal of hazardous wastes shall be submitted.
2. A copy of manifest document for disposal of hazardous wastes shall be submitted.
3. Copy of agreement done with brick manufacturers for disposal of fly ash.
4. Details of coal consumption and ash generation during last three financial years shall be submitted.
5. Revised CER Incorporate awareness/ training activities including of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic as suggested by the committee during presentation.

PP vide letter dated 19/05/2020 submitted reply of the above query. The query reply was placed before the committee, after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Capacity Expansion of Manufacturing of Bulk Drug & Intermediate from 400 TPA to 1000 TPA below mentioned products at Plot No. 98-99 Sector-I, Pithampur Dist Dhar - (M.P.) Cat. 5(f) Synthetic Organic Chemicals Industry (Bulk Drug) Project subject to the following special conditions:

Details of Products

Sr. No.	Existing Products & Production Capacity		Proposed Products & Production Capacity	
	Product Name	Capacity (MTPA)	Product Name	Capacity (MTPA)
1.	Baclofen	400	Defrasirox	600
2.	Trazadone Hydrochloride		Hydroquinone	
3.	Torsemide		Raloxifene Hydrochloride	
4.	Xipamide (Product To be deleted)		Timolol maleate	
5.			Inosine pranobex	
6.			Bisoprolol Fumarate	
7.			Tofisopam	
8.			Penfluridol	
9.			Dapsone	
10.			Glimepiride	
11.			Azosemide	
12.			Anagliptin	
13.			Rivastigmine tatrata	
14.			Ipronazide phosphate	
15.			Buspirone hydrochloride	
16.			Mirtazapine	
17.			Pentetate calcium trisodium	
18.			Ziprasidone Hydrochloride	
			Products Under Development	
19.			Iguratiomod	
20.			Garenoxacin	
21.			Denatonium Benzoate	

22.			Potassium Iodide	
23.			Metacresol	
24.			Maropitant	
25.			Iversol	
26.			Clozapine	
	Total	400		600
	Grand Total (Exiting + Proposed)		1000 MT/Annum (400 MTPA+600 MTPA)	

(A) Statutory compliance:

1. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Madhya Pradesh Pollution Control Board (MPPCB).
2. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time & permission of competent authority if ant tree falling is to be carried out.
3. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(B) Air quality monitoring and preservation

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to MPPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
3. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions

within permissible limits (as applicable). The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

4. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
5. The DG sets (340 KVAX2 (Existing) and 500 KVA-Proposed) shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
6. Additional proposed boiler of 3 TPH shall be provided with bag filter to control the emission limit as prescribed by MPPCB.
7. DG exhaust will be discharged at height stipulated by CPCB.
8. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
9. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(C) Water quality monitoring and preservation

1. The project proponent shall provide online continuous monitoring of effluent (if applicable), the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
2. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
3. The net fresh water requirement shall be 236 KLD. The rejected water will be reused for floor washing and gardening/green belt. The treated water will be used for cooling towers, floor washing and gardening/green belt.
4. The waste water generation shall be (229 KLD) be segregated as high COD/high TDS, Low COD, Low TDS and domestic effluents. The HCOD/HTDS shall be neutralized and sent to stripper followed by MEE and ATFD. LCOD/LTDS effluent shall be treated in ETP with domestic effluent followed by RO system. The treated effluent shall be entirely reused and recycled in cooling tower make-up.
5. The industrial water requirement for the existing and proposed project is 236 KL per day sourced from surface water supply. Total cumulative waste water generation from

existing and proposed unit will be 229 KLD and treated in ETP of 150 KLD, RO of 200 KLD and MEE of 50 KL/day respectively.

6. Adhere to 'Zero Liquid Discharge and No industrial effluent from the unit shall be discharged outside the plant premises. 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.
7. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the Madhya Pradesh Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
8. Total fresh water requirement shall not exceed 236 KLD.
9. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
10. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
11. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

(C) Noise monitoring and prevention

1. Acoustic enclosure shall be provided to proposed 500 KVA DG sets for controlling the noise pollution.
2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
3. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

(E) Energy Conservation measures

1. The energy sources for lighting purposes shall preferably be LED based.
2. The total power requirements for project will be 2000 KVA. The power will be supplied by Power Generator i.e. Grid power.

(F)Waste management

1. PP will explore the possibility of using cleaner fuel option like gas in place of coal in future.
2. The generated fly ash will be given to the bricks manufacture.
3. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
4. As proposed, 95% solvent recovery shall be achieved and recovered solvent shall be reused in the process.
5. Hazardous wastes such as spent solvents, organic incinerable wastes/residues, used filter bags, packaging materials, rejected/expired raw materials and off specification/ rejected finished products from the manufacturing plants shall be directly sent to CTSDf, Dhar.
6. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
7. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
8. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
9. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
10. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
11. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
12. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
13. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
14. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.

15. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
16. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
17. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
18. The company shall undertake waste minimization measures as below:
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(G) Green Belt

1. $1606 + 4100 = 5706$ sq. meter area will be covered with the good green belt and 1430 trees will be planted apart from the existing plans of 230 number. The green belt of 5-10 m width will be developed mainly along the periphery and road side. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department.
2. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
3. PP shall also develop green belt along the road with 100 numbers of trees. Further PP shall develop green belt over community places in consultation with DIC or IMC.

(H) Safety, Public hearing and Human health issues

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
3. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
4. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
5. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
6. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
7. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

(I) Corporate Environment Responsibility

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
5. The proposed EMP cost is Rs. 390 Lakhs as capital and 39.10 Lakhs /year as recurring cost.
6. Under CER activity, Rs. 38.31163 Lakhs as capital has proposed for different activities. PP shall complied with the commitment of providing infrastructure facility at school and skill development programme.
7. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
8. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

J. Miscellaneous

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.
3. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, and also that during their presentation to the Expert Appraisal Committee.
4. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
5. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other

orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.

2. Case No. - 5839/2019 M/s. Suneeta Chemicals, Plot No. 24, Sector-A, Industrial Area, Sanwer road, Indore, MP – 452015 Prior Environment Clearance for Manufacturing of Bulk Drug & Intermediate with production capacity of 26,500 kg/month and 29.30 kg/day of by-product at Plot No. 16, 17, 20 & 24, Sanwer Road, Industrial Area, Sector-A, Indore .Cat. - 5(f) Project Synthetic Organic Chemicals Industry (Bulk Drug).

This is a case Prior Environment Clearance for Manufacturing of Bulk Drug & Intermediate with Production Capacity – 26,500 kg/month and 29.30 kg/day of by-product at Plot No. 16, 17, 20 & 24, Sanwer Road, Industrial Area, Sector-A, Indore, (M.P.) The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project.

Earlier this case was scheduled for presentation in 342nd SEAC meeting dated 18/02/2019, 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.

SALIENT FEATURE OF PROJECT:

Project Name	Manufacturing of Bulk drug and Intermediates
Production capacity	318 TPA of bulk drug and drug Intermediate & 9.669 TPA as by product
Estimated Project Cost	7 Crore
EMP Cost (Capital)	1.50 Crores
Acquired Land	11445.65 Sq Mtr.
Total Water Consumption	63 KLD
Net fresh Water Consumption	50 KLD
Source of Water Supply	Water Tankers
Waste Water Generation	19 KLD
Proposed Treatment Facility	Unit will install in ETP of 30 KLD, RO of 15 KLD, MEE of 10 KL/day. The treated water will be used for cooling towers, floor washing and green belt.

Source of power supply	Madhya Kshetra Vidyut Vitaran Company
Power Requirement	Existing : 250 KVA
Fuel Options	FO : 25 L/hr Coal : 2000 Kg/ Day for 2 TPH Boiler Coal : 1000 Kg/ Day for 1 TPH Boiler
Major equipments	Reactors, Centrifuge, Vacuum Try Dryer, Filters, Boiler, Cooling Tower, MEE, ETP and RO etc.
Green belt (sq mt)	6637 .50 Sq mt
Employment generation	135

Earlier this case was scheduled for presentation and discussion in 352th SEAC meeting dated 18/03/2019, wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 09/03/2020 which was forwarded through SEIAA vide letter no. 5078 dated 12/03/2020, which was placed before the committee.

This case was scheduled for the EIA presentation and discussion where PP and their consultant were present through video conferencing. In commencement of the presentation PP has requested that in the context of pandemic COVID -19, GoI's MoEF&CC issued a OM vide dated 13.04.2020, for considering the API & Bulk drug Projects will be considered as B-2 category. Then after, PP has submitted following project details:

Salient Feature of Project -

Project Name	Manufacturing of Bulk drug and Intermediates
Production capacity	318 TPA of bulk drug and drug Intermediate & 9.669 TPA as by product
Estimated Project Cost	7 Crore
EMP Cost (Capital)	3 Crores
Acquired Land	11445.65 Sq Mtr.
Total Water Consumption	63 KLD
Net fresh Water Consumption	50 KLD

Source of Water Supply	Water Tankers
Waste Water Generation	19 KLD
Proposed Treatment Facility	Unit will install in ETP of 30 KLD, RO of 15 KLD, MEE of 10 KL/day. The treated water will be used for cooling towers, floor washing and green belt.
Source of power supply	Madhya Kshetra Vidyut Vitaran Company
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Major equipments	Reactors, Centrifuge, Vacuum Try Dryer, Filters, Boiler, Cooling Tower, MEE, ETP and RO etc.
Green belt (sq mt)	1637 .50 Sq mt
Employment generation	135

- The existing production capacity is 318 TPA and unit is proposing new range of bulk drug and drug intermediates at same capacity of 318 TPA with 9.669 TPA of by product
- The project is proposed in the company's existing premises having land of 11445.65 sq mt. The total fixed cost of proposed expansion project will be INR 7 Crore.
- The major facilities will be involved as Boiler, MEE, Reactors, Cooling Towers, Effluent Treatment Plant (ETP), and R.O Plant Facilities like administrative office, parking and greenbelt/plantation will also be developed as per plan/requirement.
- The industrial water requirement for the project is 63 KLD and sourced from surface water supply. Total waste water generation from proposed unit will be 19 KLD and treated in ETP of 30 KLD, RO of 15 KLD, MEE of 10KL/day respectively. The net fresh water requirement shall be 50 KLD. The rejected water will be reused for floor washing and gardening/green belt. The treated water will be used for cooling towers, floor washing and gardening/green belt.
- Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility, Pre processing, Co processing in cement plant, as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008 (Amendment 2016).
- At present the total connected load of power is about 250 KVA. In case of power failure, D.G. set (250 KVA) will be used as a backup power source.

The M/s Suneeta Chemical will have total manpower of approx. 135, who will be from nearby villages/area and therefore no residential planning has been incorporate

List of Products

Existing product	
Name of the Product	Quantity in T/Month
Phenyl Acetic acid	5.00
Sodium gas	5.00
Nicotinic acid IP (TECH Grade)	6.00
Methyl Mercuric Acetate	1.00
Chloropropamide	3.00
Toleutamide	1.50
Thiactazone IP	0.5
Chloro Methenice	1.00
Mepro Bamse	1.50
2-Methyl Znpropile	1.00
P.C.B.S.V	1.00
Total	26.5
Total per year	318.00

Proposed product		
S.No	Name of the Product	Quantity in Kg/Month
1	Abacavir Sulfate	50
2	Abiraterone acetate	50
3	Acyclovir	500
4	Amiodarone Hydrochloride	500
5	Aprepitant	50
6	Benzathine Benzyl	600

	Penicillin	
7	Bicalutamide	40
8	Calcium Folate	100
9	Capecitabine	200
10	Carboplatin	5
11	Cisplatin	5
12	Cyclophosphamide	75
13	Diltiazem Hydrochloride	1000
14	Docetaxel	5
15	Dorepenem	50
16	Efavirenz	600
17	Emtricitabine	150
18	Entecavir monohydrate	125
19	Ertapenem	50
20	Gefitinib	20
21	Gemcitabine Hydrochloride	50
22	Glimepiride	500
23	Hydrocortisone Acetate	100
24	Hydroxy Urea	500
25	Ifosfamide	50
26	Imipenem	20
27	Irbesartan	50
28	Lamivudine	500
29	Ledipasvir	50
30	Lisinopril Dihydrate	300
31	Luliconazole	100
32	Mebeverine Hcl	500
33	Medroxyprogesterone Acetate	150
34	Mercaptopurine	50
35	Meropenem	1000
36	Mesna	50
37	Methotrexate	50
38	Methyl Prednisolone /Acetate	100

39	Nitrofurantoin	1000
40	Osetlamivir Phosphate	200
41	Pantoprazole Sodium	1000
42	Procaine Hcl	450
43	Procaine Penicillin G	500
44	Progesterone	900
45	Rabeprazole Sodium	600
46	Ranolazine Hcl	100
47	Sofosbuvir	10
48	Solifenacin	50
49	Tazobactam+Piperacillin	200
50	Tenefovir Disoproxil Fumarate	50
51	Teneligliptin Penta Hydro bromide Hydrate	20
52	Testosterone & Salts	1200
53	Tradazone Hydrochloride	300
54	Valacyclovir Hydrochloride Monohydrate	1000
55	Valsartan	2000
56	Verapamil Hydrochloride	1000
57	Vitamin C (Ascorbic Acid)	1000
58	Voriconazole	100
59	Zodovidine	500
60	Carbamezapine	3000
61	Impiramine Hcl/Pamoate	1000
62	Praziquintal	500
63	Acamprosate Calcium	300
64	Homotorine	1000
65	Triamcilone /Acetonide	20
66	Estradiol & Derivatives	25
67	Clotrimazole	100
68	Dutristride	10
69	Tepentalol	20
70	Rosuvastitin	50

	Total	318 TPA or 26500 Kg per month
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By product		
Name of the Product	Name of the By-Product	Quantity In Kg/Day
Cyclophosphamide	TEA HCl	12.30
Zidovudine	Trityl alcohol	17.00

After presentation and discussion PP was asked to submit following revised details:

1. Copy of form-4 related to generation and disposal of hazardous wastes shall be submitted.
2. A copy of manifest document for disposal of hazardous wastes shall be submitted.
3. Copy of agreement done with brick manufacturers for disposal of fly ash.
4. Revised CER Incorporate awareness/ training activities including of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic as suggested by the committee during presentation.

PP vide letter dated 19/05/2020 submitted reply of the above query. The query reply was placed before the committee, after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Manufacturing of Bulk Drug & Intermediate with production capacity of 26,500 kg/month or 318 MTPA and 29.30 kg/day or 9.669 TPA of by-product mentioned below at Plot No. 16, 17, 20 & 24, Sanwer Road, Industrial Area, Sector-A, Indore M.P., Cat. 5(f) Synthetic Organic Chemicals Industry (Bulk Drug) Project subject to the following special conditions:

Proposed product		
S.No	Name of the Product	Quantity in Kg/Month
1	Abacavir Sulfate	50
2	Abiraterone acetate	50
3	Acyclovir	500
4	Amiodarone Hydrochloride	500
5	Aprepitant	50
6	Benzathine Benzyl Penicillin	600
7	Bicalutamide	40
8	Calcium Folate	100

9	Capecitabine	200
10	Carboplatin	5
11	Cisplatin	5
12	Cyclophosphamide	75
13	Diltiazem Hydrochloride	1000
14	Docetaxel	5
15	Dorepenem	50
16	Efavirenz	600
17	Emtricitabine	150
18	Entecavir monohydrate	125
19	Ertapenem	50
20	Gefitinib	20
21	Gemcitabine Hydrochloride	50
22	Glimepiride	500
23	Hydrocortisone Acetate	100
24	Hydroxy Urea	500
25	Ifosfamide	50
26	Imipenem	20
27	Irbesartan	50
28	Lamivudine	500
29	Ledipasvir	50
30	Lisnopril Dihydrate	300
31	Luliconazole	100
32	Mebeverine Hcl	500
33	Medroxyprogesterone Acetate	150
34	Mercaptopurine	50
35	Meropenem	1000
36	Mesna	50
37	Methotrexate	50
38	Methyl Prednisolone /Acetate	100
39	Nitrofurantoin	1000
40	Osetlamivir Phosphate	200
41	Pantoprazole Sodium	1000
42	Procaine Hcl	450
43	Procaine Penicillin G	500

44	Progesterone	900
45	Rabeprazole Sodium	600
46	Ranolazine Hcl	100
47	Sofosbuvir	10
48	Solifenacin	50
49	Tazobactam+Piperacillin	200
50	Tenefovir Disoproxil Fumarate	50
51	Teneligliptin Penta Hydro bromide Hydrate	20
52	Testosterone & Salts	1200
53	Tradazone Hydrochloride	300
54	Valacyclovir Hydrochloride Monohydrate	1000
55	Valsartan	2000
56	Verapamil Hydrochloride	1000
57	Vitamin C (Ascorbic Acid)	1000
58	Voriconazole	100
59	Zodovidine	500
60	Carbamezapine	3000
61	Impiramine Hcl/Pamoate	1000
62	Praziquintal	500
63	Acamprosate Calcium	300
64	Homotorine	1000
65	Triamcilone /Acetonide	20
66	Estradiol & Derivatives	25
67	Clotrimazole	100
68	Dutristride	10
69	Tepentalol	20
70	Rosuvastitin	50
	Total	318 TPA or 26500 Kg per month

By product		
Name of the Product	Name of the By-Product	Quantity In Kg/Day
Cyclophosphamide	TEA HCl	12.30

Zidoviudine	Trityl alcohol	17.00
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(A) Statutory compliance:

1. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Madhya Pradesh Pollution Control Board (MPPCB).
2. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
3. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(B) Air quality monitoring and preservation

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to MPPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
3. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released e.g. PM10 and PM2.5 in reference to PM emission and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions.
4. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions from the boiler, DG set

and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

5. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
6. The DG sets (1 X 250 KVA) shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
7. The boilers shall be provided with bag filter to control the emission limit as prescribed by MPPCB and maintained its efficiency.
8. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
9. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(C) Water quality monitoring and preservation

1. The project proponent shall provide online continuous monitoring of effluent (if applicable) , the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
2. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
3. The net fresh water requirement shall be 50 KLD. The rejected water will be reused for floor washing and gardening/green belt. The treated water will be used for cooling towers, floor washing and gardening/green belt.
4. The waste water generation shall be (19 KLD) be segregated as high COD/high TDS, Low COD, Low TDS and domestic effluents. The HCOD/HTDS shall be neutralized and sent to stripper followed by MEE and ATFD. LCOD/LTDS effluent shall be treated in ETP with domestic effluent followed by RO system. The treated effluent shall be entirely reused and recycled in cooling tower make-up.
5. The industrial and domestic water requirement for the proposed project is 63 KL per day sourced from surface water supply. Total waste water will be treated in ETP of 30 KLD, RO of 15 KLD and MEE of 10 KL/day respectively.
6. Adhere to 'Zero Liquid Discharge and No industrial effluent from the unit shall be discharged outside the plant premises. 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.

7. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the Madhya Pradesh Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
8. Total fresh water requirement shall not exceed 50 KLD.
9. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
10. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
11. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

(D) Noise monitoring and prevention

1. Acoustic enclosure shall be provided to DG (1 X 250KVA) set for controlling the noise pollution.
2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
3. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

(E) Energy Conservation measures

1. The energy sources for lighting purposes shall preferably be LED based.
2. The total power requirements for project will be 250 KVA . The power will be supplied by Madhya Pradesh Electricity Board. Furnace Oil Consumption 25 lit/hours (Source Indigeneous)

(F) Waste management

1. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
2. As proposed, 95% solvent recovery shall be achieved and recovered solvent shall be reused in the process.

3. Hazardous wastes such as spent solvents, organic incinerable wastes/residues, used filter bags, packaging materials, rejected/expired raw materials and off specification/rejected finished products from the manufacturing plants shall be directly sent to CTSDf, Dhar.
4. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
5. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
6. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
7. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
8. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
9. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
10. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
11. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
12. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
13. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
14. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
15. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
16. The company shall undertake waste minimization measures as below:

- a. Metering and control of quantities of active ingredients to minimize waste.
- b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- c. Use of automated filling to minimize spillage.
- d. Use of Close Feed system into batch reactors.
- e. Venting equipment through vapour recovery system.
- f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(G) Green Belt

1. The green belt of 5-10 m width shall be developed in 1637.50 sq. meters within plant with the 427 number in the project area, mainly along the plant periphery, in downward wind direction and along road sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department.
2. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the EIA 427 no's trees (327+100 no) in four years shall be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

(H) Safety, Public hearing and Human health issues

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
3. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
4. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
5. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

6. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
7. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

(I) Corporate Environment Responsibility

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
5. The proposed EMP cost is Rs. 300.0 Lakhs as capital and 7.72 Lakhs /year as recurring cost.
6. Under CER activity, Rs. 7.0 Lakhs and 0.50 Lakhs /year as capital and recurring costs has proposed for different activities. PP shall comply with the commitment of providing infrastructure facility at school and skill development programme.
7. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

8. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.
3. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, and also that during their presentation to the Expert Appraisal Committee.
4. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
5. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.

3. Case No. - 6284/2019 M/s. Ripride Remedies Pvt. Ltd, 16/8/1, Race Course Road, Indore, (M.P.) Prior Environment Clearance for Proposed Manufacturing of Bulk Drug and Intermediate facility at plot no. 40, Pithampur Industrial Area, Sector-3, Sagor Village, Pithampur, Dist. Dhar (M.P.) Cat. 5 (f) Synthetic Organic Chemicals Industry. Env. Con. – Creative Enviro Services.

This is a case for Prior Environment Clearance. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project.

Project Description

S. no.	Particular	Details
1	Name of the project & its location	Manufacturing Of Bulk Drugs & Intermediates PLOT NO. 40, Pithampur Industiral area, Sector-3, sagor village, Dist. Dhar (MP)

2	Name of the Company, Address Tele No. & E-mail	M/S. Ripride Remedies Pvt Limited (RRPL), 16/8/1 race course road , Indore (MP)
3	Latitude and Longitude of the project	22°37'00.0"N 75°36'07.4"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	New, 8083.00 Sq Meter 600TPA
6	Cost of the project	Proposed : 11 Crores
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:	
(ii)	Date of Public Hearing, location	NA
(iii)	Major issues raised during PH and response of PP	NA
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. 111 KLD, which will be sourced from tanker supply and IMC, Indore.															
(ii)	Waste water quantity, treatment capacity, detail	Proposed : 31 KLD RRPL will install in ETP of 50 KLD, RO of 20 KLD, and MEE of 20KL/day. The treated water will be used for cooling towers, floor washing and green belt.															
(iii)	Recycling / reuse of treated water and disposal	The treated water will be used for cooling towers, floor washing and green belt															
(iv)	Solid Waste Management	Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility, as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008 (Amendment 2016). M/s RRPIL will take authorization Under Hazardous Waste (Management, Handling & Transboundary Movement), Rules															
(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	<table> <tr> <td>Chambal River</td><td>– 5.75km</td><td>- SW</td></tr> <tr> <td>Angrer Nadi</td><td>- 1.00km</td><td>– SE</td></tr> <tr> <td>Nulikhl Nalla</td><td>– 6.750km</td><td>- NNW</td></tr> <tr> <td>Kishan pura Talab</td><td>– 7.750km</td><td>– NE</td></tr> <tr> <td>Sanjay Jalashay</td><td>– 7.25km</td><td>- ESE</td></tr> </table>	Chambal River	– 5.75km	- SW	Angrer Nadi	- 1.00km	– SE	Nulikhl Nalla	– 6.750km	- NNW	Kishan pura Talab	– 7.750km	– NE	Sanjay Jalashay	– 7.25km	- ESE
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Kishan pura Talab	– 7.750km	– NE															
Sanjay Jalashay	– 7.25km	- ESE															
(iii)	Details of tree cutting																
(iv)	Energy conservation measures with estimated saving																
(v)	Green belt development (20 % of construction projects and 33 % for others)	Proposed: 2459sqm															
(vi)	Parking requirement with	Details will be given in EIA															

	provision made	
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).	Proposed : 11.00 Crores
(ii)	Employment potential.....	Proposed : 180
(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	Proposed : 1.12 Crores Details given in EIA report
18	Numbers of plantation with name of species proposed &	Proposed: 2459sqm Details given in EIA report

	area allocated for plantation with budgetary provisions	
19	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details	Angrer Nadi - 1.00km – SE

Earlier this case was scheduled for presentation and discussion in 376rd SEAC meeting dated 01/07/2019, wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 04/5/2020 which was forwarded through SEIAA vide letter no. 111 dated 12/5/2020, which was placed before the committee.

This case was scheduled for the EIA presentation and discussion where PP and their consultant were present through video conferencing. In commencement of the presentation committee has observed that PP vide letter 04.05.2020 has requested that in the context of pandemic COVID - 19, GoI's MoEF&CC issued a OM vide dated 13.04.2020, for considering the API & Bulk drug Projects will be considered as B-2 category. Then after, PP has submitted following project details:

Salient Feature of Project

- The unit will manufacture bulk drug and drug intermediates for 600 TPA .The project occupies a plot Area of 8083 sq mt of land. The total fixed cost of the project is estimated as INR 11 Crore.
- The major facilities involved are Boiler, MEE, Reactors, Cooling Towers, Effluent Treatment Plant (ETP), and R.O Plant Facilities like administrative office, parking and greenbelt/plantation will also be developed as per plan/requirement.
- The total water requirement for the project is approx. 111.4 KLD which will be sourced from AKVN., whereas after recycling and reuse total fresh water requirement will be 58 KLD. Total waste water generation will be 31 KL/day, which will be and treated in ETP of 50 KLD.
- RRPL will install Multi Effective Evaporator with treatment capacity of 20 KL/Day. The treated water will be used for cooling towers, floor washing and gardening/green belt.
- Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility, as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008

(Amendment 2016). M/s RRPIL will take authorization Under Hazardous Waste (Management, Handling & Transboundary Movement), Rules.

- Power will be sourced from existing line of 'Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company'. The total requirement will be 1600 KVA. In case of power failure, D.G. set (500 KVA) will be used as a backup power source.
- The M/s RRPL will have total manpower of approx. 180 who will be from Pithampur and nearby villages/area and therefore no residential planning has been incorporated..
- The total estimated cost of the proposed project Rs. **11 Crore** out of which **Rs. 140.5 Lacs** (capital cost) is allocated for environmental management systems and the annual re-occurring cost for the same is **Rs 29 Lacs/annum**. **Rs. 22 Lacs** is allocated for Corporate Environment Responsibility (CER) Activities.

Salient Features of the Project		
Sr. No.	Component	Status
1	Name	M/s Ripride Remedies Pvt. Ltd.
2	Location	Pithampur
3	Product type	Active Pharmaceutical Ingredients (APIs)
4	Project Type	New
5	Schedule as per EIA notification	5 (f)
6	Catagory of Project	MSME
7	Area Details in Sq Meter	
i	Total Plot Area	8083 sq . meter
ii	Built up Area	4849.8
iii	Green belt Area	2459
8	Production Details	
i	Production Capacity	600MTA
9	Budgetary Allocation	
i	Project Cast	11cr in primary phase
II	EMP Cast	1.4050
10	Power Requirement	
i	Proposed Connected Load(KW)	
ii	Total Power Requirement	1600kva
iii	Source	MPEB
11	Fuel Requirement	

I	Briquette/Coal	6.0T/day
ii	HSD For DG Set	96lit/hour
12	DG Set Details	
i	D.G. Set (1No.)	500KVA

List of Products

S.N.	Name Of Proposed Product	Quantity in TPA	Major Uses/ End Use
(A)	Anti-Diabetic Drug		
1	Alogliptin and intermediate		Anti-diabetic drug
2	Canagliflozin		Treatment of diabetes
3	Empagliflozine		Treatment of type 2 diabetes
4	Gliclazide		Treatment of type 2 diabetes
5	Glimepride and Intermediate		Anti-diabetic
6	Vildagliptin and intermediate		Antidiabetic agent
7	Sitagliptin		Antihyperglycemic
8	Saxagliptin		Hypoglycaemic
9	Tenlegliptin		Antidiabetic agent
10	Calcium dobesilate		Diabetic retinopathy& haemorrhoids
11	Dapagliflozin		Blood sugar treatment
	Sub-Total	160	
(B)			
1	Diphenhydramine hydrochloride		Treatment of Hypertension
2	Chlorzoxazone		Treatment of hypertension
3	Mefenamic Acid		Treatment of high blood pressure
4	Levetiracetam		anti-hypertensive
	Sub-Total	360	
(C)			
1	Azilsartan and Intermediate		Cardiovascular disease.
2	Chlorthalidone and intermediate		Used to treat high blood

S.N.	Name Of Proposed Product	Quantity in TPA	Major Uses/ End Use
			pressure and edema
3	Benidipine hydrochloride		Antihypertensive
4	cilnidipine		Antihypertensive
5	Finofibrate		Antihypertensive
6	Torsemide		High, Blood Pressure
7	Perindopril		Remark: Total proposed Production will be 70 MTA in this category
8	Betoxolol and Intermediate		Antihistamine
9	Lercanidipine		Respiratory disease
10	Olmesartan		Bronchodilator
11	Acebrophylline		Respiratory disease
12	Ambroxol Hydrochloride		Antihistamine
13	Doxylamine succinate		Antihistamine
14	Levocetazine		Antihistamine
15	Montelukast		Allergic , Asthama
16	Baclofen		
17	Roflumilast		Antihistamine
18	Meloxicam		Antihistamine
19	dexketoprofen		Antihistamine
20	Nitrofurantoin		Antihistamine
21	Nitrofurazone		Antihistamine
22	Moxifloxacin		Antihistamine
23	Nitazoxanide		Antihistamine
24	Alendronate sodium		Antihistamine
25	Allopurinol and intermediate		Antihistamine
26	Apixaban and intermediate		Antihistamine
27	Aprepitant and intermediate		Antihistamine
28	Bisacodyl		Antihistamine
29	Dabigartan and intermediate		Antihistamine
30	Diacerin and intermediate		Antihistamine
31	Etamsylate		Antihistamine
32	Fabuxostat		Antihistamine
33	Silver Sulfadiazine		Antihistamine
34	Tadalafil and intermediate		Antihistamine

S.N.	Name Of Proposed Product	Quantity in TPA	Major Uses/ End Use
35	Trenexamic acid and intermediate		Antihistamine
36	Bopetestine hydrochloride		Antihistamine
37	Quetiapine hemifumarate		Antihistamine
38	Brinzolamide		Antihistamine
39	Phenylephrine Hydrochloride		Antihistamine
40	Sodium Picosulpahte		Antihistamine
41	Levosulpride		Antihistamine
42	Dorzolamide & Intermediates		Antihistamine
	Sub-Total	60	Antihistamine
(D)			Antihistamine
1	Adapelene and its Intermediate		Antihistamine
2	Glycopyrrolate		Antihistamine
3	Granisetron		Antihistamine
4	Tamsulosin hydrochloride		Antihistamine
5	Ticagrelor and intermediate		Antihistamine
6	Thyroxine sodium		Antihistamine
7	Voglibose		Antihistamine
8	Melatonin		Antihistamine
9	Tretinoin		Antihistamine
10	Isotretinoin		Antihistamine
11	R&D Product		Antihistamine
	Sub-Total	20	
	GRAND TOTAL (A+B+C+D)	600	

After presentation and discussion PP was asked to submit following revised details:

1. Revised plantation species as suggested by the committee.
2. Revised CER Incorporate awareness/ training activities including of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic as suggested by the committee during presentation.

PP vide letter dated 19/05/2020 submitted reply of the above query. The query reply was placed before the committee, after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of

Prior Environment Clearance for Proposed Manufacturing of Bulk Drug and Intermediate facility at Plot no. 40, Pithampur Industrial Area, Sector-3, Sagor Village, Pithampur, Dist. Dhar (M.P.), Plot area - 8083 sq.m. , Proposed capacity-600 TPA for below mentioned products Cat. 5 (f) Synthetic Organic Chemicals Industry. Industry (Bulk Drug) Project subject to the following special conditions:

S.N.	Name Of Proposed Product	Quantity in TPA
(A)	Anti-Diabetic Drug	
1	Alogliptin and intermediate	
2	Canagliflozin	
3	Empagliflozine	
4	Gliclazide	
5	Glimepride and Intermediate	
6	Vildagliptin and intermediate	
7	Sitagliptin	
8	Saxagliptin	
9	Tenlegliptin	
10	Calcium dobesilate	
11	Dapagliflozin	
	Sub-Total	160
(B)		
1	Diphenhydramine hydrochloride	
2	Chlorzoxazone	
3	Mefenamic Acid	
4	Levetiracetam	
	Sub-Total	360
(C)		
1	Azilsartan and Intermediate	
2	Chlorthalidone and intermediate	
3	Benidipine hydrochloride	
4	cilnidipine	
5	Finofibrate	
6	Torsemide	
7	Perindopril	
8	Betoxolol and Intermediate	
9	Lercanidipine	
10	Olmesartan	

S.N.	Name Of Proposed Product	Quantity in TPA
11	Acebrophylline	
12	Ambroxol Hydrochloride	
13	Doxylamine succinate	
14	Levocetrezine	
15	Montelukast	
16	Baclofen	
17	Roflumilast	
18	Meloxicam	
19	dexketprofen	
20	Nitrofurantoin	
21	Nitrofurazone	
22	Moxifloxacin	
23	Nitazoxanide	
24	Alendronate sodium	
25	Allopurinol and intermediate	
26	Apixaban and intermediate	
27	Aprepitant and intermediate	
28	Bisacodyl	
29	Dabigartan and intermediate	
30	Diacerin and intermediate	
31	Etamsylate	
32	Fabuxostat	
33	Silver Sulfadiazine	
34	Tadalafil and intermediate	
35	Trenexamic acid and intermediate	
36	Bopetestine hydrochloride	
37	Quetiapine hemifumarate	
38	Brinzolamide	
39	Phenylephrine Hydrochloride	
40	Sodium Picosulpahte	
41	Levosulpride	
42	Dorzolamide & Intermediates	
	Sub-Total	60
(D)		
1	Adapelene and its Intermediate	
2	Glycopyrrolate	

S.N.	Name Of Proposed Product	Quantity in TPA
3	Granisetron	
4	Tamsulosin hydrochloride	
5	Ticagrelor and intermediate	
6	Thyroxine sodium	
7	Voglibose	
8	Melatonin	
9	Tretinoin	
10	Isotretinoin	
11	R&D Product	
	Sub-Total	20
	GRAND TOTAL (A+B+C+D)	600

(A) Statutory compliance:

1. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Madhya Pradesh Pollution Control Board (MPPCB).
2. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
3. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(B) Air quality monitoring and preservation

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to MPPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
3. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released e.g. PM10 and PM2.5 in reference to PM emission and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions.
4. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
5. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
6. The DG sets (1 X 500 KVA) shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
7. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
8. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(C) Water quality monitoring and preservation

1. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
2. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
3. The effluent shall (58 KLD) be segregated as high COD/High TDS and Low COD/Low TDS effluents. The HCOD/HTDS shall be neutralized and sent to stripper

followed by MEE and ATFD. LCOD/LTDS effluent shall be treated in ETP with domestic effluent followed by RO system. The treated effluent shall be entirely reused and recycled in cooling tower make-up.

4. The industrial water requirement for the existing and proposed project is 236 KL per day sourced from surface water supply. Total cumulative waste water generation from proposed unit will be 58 KLD and treated in ETP of 10 KLD, RO and MEE of 20 KL/day respectively.
5. Adhere to 'Zero Liquid Discharge and No industrial effluent from the unit shall be discharged outside the plant premises. 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.
6. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the Madhya Pradesh Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
7. Total fresh water requirement shall not exceed 58 KLD and as proposed MPAKVN shall provide the fresh water.
8. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
9. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
10. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

(D) Noise monitoring and prevention

1. Acoustic enclosure shall be provided to DG (1 X 500 KVA) set for controlling the noise pollution.
2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
3. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

(E) Energy Conservation measures

1. The energy sources for lighting purposes shall preferably be LED based.
2. The total power requirements for project will be 1600 KVA . The power will be supplied by Madhya Pradesh Electricity Board. Furnace Oil Consumption 96lit/hours, whereas the coal consumption will be 6 TPD. (Source Indigeneous)

(F) Waste management

1. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
2. As proposed, 95% solvent recovery shall be achieved and recovered solvent shall be reused in the process.
3. Hazardous wastes such as spent solvents, organic incinerable wastes/residues, used filter bags, packaging materials, rejected/expired raw materials and off specification/ rejected finished products from the manufacturing plants shall be directly sent to CTSDf, Dhar.
4. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
5. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
6. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
7. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
8. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
9. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
10. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
11. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.

12. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
13. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
14. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
15. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
16. The company shall undertake waste minimization measures as below:
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c) Use of automated filling to minimize spillage.
 - d) Use of Close Feed system into batch reactors.
 - e) Venting equipment through vapour recovery system.
 - f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(G) Green Belt

1. The green belt of 5-10 m width shall be developed 2971 sq. meter within plant and 1468 along the road in the project area, mainly along the plant periphery, in downward wind direction and along road sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department.
2. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the EIA 1140 no's trees (540+600 no) in four years shall be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

(H) Safety, Public hearing and Human health issues

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
3. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
4. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
5. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
6. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
7. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

(I) Corporate Environment Responsibility

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
5. The proposed EMP cost is Rs. 140.50 Lakhs as capital and 29 Lakhs /year as recurring cost.
6. Under CER activity, Rs. 22.00 Lakhs and 02.0 Lakhs /year as capital and recurring costs has proposed for different activities. PP shall comply with the commitment of providing infrastructure facility at school and skill development programme.
7. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
8. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.
3. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
4. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
5. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other

orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.

4. Case No. – 6258/2019 M/s Jai Bhadra Kali Granite, R/o Village - Badaura Kalan, Tehsil - Gaurihar, Dist. Chhatarpur, MP Prior Environment Clearance for Crusher Stone Quarry in an area of 4.00 ha. (3,08,536 cum per annum) (Khasra No. 946 Parts), Village - Badaura Kalan, Tehsil - Gaurihar, Dist. Chhatarpur (MP).

This is case of Crusher Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 946 Parts), Village - Badaura Kalan, Tehsil - Gaurihar, Dist. Chhatarpur (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 letter No. 1940 dated: 08/04/19 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine with total area of 13.8 ha., including this mine.

Earlier this case was scheduled for presentation and discussion in 393th SEAC meeting dated 30/08/2019, wherein ToR was recommended.

PP has submitted the EIA report vide letter dated NIL which was forwarded through SEIAA vide letter no. 5353 dated 23/03/2020, which was placed before the committee.

The case was presented by the PP and their consultant wherein it was observed by the committee through Google image that this is fresh mine which is surrounded by human settlement. For protection of human settlement, PP submitted that they have proposed a wall all around the lease boundary towards human settlement. Committee after deliberation decided that apart from the retaining wall, PP has to leave 50 meters setback as non mining area towards settlement side. Committee also recommends that PP has to carryout ground vibration study within 06 months and outcome of the study shall be implemented by the PP. The ground vibration study shall be submitted with six monthly compliance reports. After presentation, PP was asked to provide response on following:

1. Revised CER Incorporate awareness/ training activities including of distribution of masks, sanitizers, and mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic as suggested by the committee during presentation.

PP vide their letter dated 19.05.2020 submitted query reply which was placed before the committee which was found satisfactory and acceptable to the committee. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for approval Crusher Stone Quarry in an area of 4.00 ha. (3,08,536 cum per annum) (Khasra No. 946 Parts), Village - Badaura Kalan, Tehsil - Gaurihar, Dist. Chhatarpur (MP). (M.P.) subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.
9. Slope stability study shall be carried out before commencing the mining activities.
10. Reject stone shall be sold only after approval of the State Government as per the prevailing rules & regulations.

(B) MINING OPERATIONAL PHASE

11. No overcharging during blasting to avoid vibration.
12. Controlled and muffle blasting shall be carried out considering habitation northern side of the lease.
13. Protection plan w.r.t. to the habitation and as shown on map 50 meters area will be left as no mining zone and retaining wall shall also be provided.
14. Ground vibration study shall be submitted within 06 months from the commencement of production.
15. Working height of the loading machines shall be compatible with bench configuration.
16. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
17. No explosive will be stored at the mine site.

18. No intermediate stacking is permitted at the mine site.
19. No dump shall be stacked outside the lease area.
20. Overhead sprinklers shall be provided in mine.
21. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
22. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 2250 nos. of trees (area: 1.1256 ha.) shall be planted on barrier zone, backfilled area and along the transportation route.
23. Transportation of material shall be done in covered vehicles.
24. Transportation of minerals shall not be carried out through forest area.
25. Two garland drains will be proposed in and around the lease area. Details are given below table.

Garland drain no.	Location of Garland drain	Size mL X mW X mD
PGD_1	BP-1 to BP-4	393.00 X 1.00 X 1.00
PGD_2	BP-4 to BP-1	396.00 X 1.00 X 1.00

26. It is proposed to make **5numbers** of settling pits within the garland drain and proposed to connect drains to large settling tanks through these pits to avoid silt discharge from open ended drains. Following settling pits have been suggested to control sedimentation problem –

Identified Drain With No.	No. of Settling Pit	Size of Settling Pit (M) W X L X D
PGD_1	PSP_1 to PSP_3	0.5x0.35x1.5
PGD_1 & PGD_2	PSP_4	0.5x0.35x1.5
PGD_2	PSP_5	0.5x0.35x1.5

27. One settling tank is suggested to control sedimentation problem

Details of Proposed settling Tank			
Settling tank no.	Location	Size	Capacity of tank in KL
PST_1	Between P_3 & P_4	0.12ha x 5mD	6000KL

28. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.

29. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.

30. The existing and proposed land use plan of the mine is as follows:

Items	Existing	Conceptual Period
Total lease area	4.00 ha	
Ultimate depth of mining	Nil	23 m bgl (139 m MSL)
Ultimate pit slope		45 degree
Area under dumps	Nil	0.00ha
Area under pits	Nil	3.3593ha
Infrastructure & Road	Nil	Nil
Mineral storage	Nil	Nil
Plantation	Nil	0.250 ha
Un-worked area	4.00ha	0.3907ha
Total	4.00 ha	4.00 ha
Water body	Nil	2.3087ha
Area to be reclaimed	Nil	Nil
Plantation		

Un-worked area	Nil	0.25 Ha (500No.)
Backfilled area	Nil	Nil
Bench area	Nil	0.8756ha (1750No.)
Total area for plantation	Nil	1.1256 Ha (2250No.)

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

(C) ENTIRE LIFE OF THE PROJECT

36. In the proposed EMP, capital cost is Rs. 31.24 Lakh is proposed and Rs.11.98 Lakh /year as recurring expenses.
37. Under CSR activity, Rs 04.00 Lakh /year are proposed as capital and Rs. 01.00 lakhs/year recurring expenses respectively in different activities and should be implemented through respective committees.
38. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
39. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
40. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
41. PP will comply with all the commitments made vide letter dated 19.05.2020.
42. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/

project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

5. Case No. – 6724/2019 M/s. Amir Chem Pvt. Ltd, Plot No. 41- 42, Sector III, Industrial Area, Pithampur, Dist. Dhar, MP – 454774. Prior Environment Clearance for Manufacturing of Synthetic Organic Chemicals, Bulk Drug & its Intermediates Total Plot area 9181 sq.m. Proposed Capacity- 300 MT per month (category 5(f)), at Plot No. 41-42, Sector 3, Industrial Area, Pithampur, Dist. Dhar, (MP).

The project is a Manufacturing of Synthetic Organic Chemicals, Bulk Drug & its intermediates in category 5(f). The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project.

Earlier this case was scheduled for presentation and discussion in 425th SEAC meeting dated 26/02/2020, wherein ToR was recommended.

PP has submitted the EIA report which was forwarded by SEIAA online dated 30.04.2020 which was placed before the committee.

During presentation it was submitted by PP that they have revised their form-1 to SEIAA adding another product “Hydroxychloroquine Sulphate and this additional product shall be added in the EC. During deliberations it was noticed that the revised form-1 is yet not received in SEAC thus PP was asked to provide a copy of revised form-1 submitted to SEIAA so that same can be added in the product list. After presentation PP was asked to submit response on following:

1. Copy of revised form-1 submitted to SEIAA adding another product “Hydroxychloroquine Sulphate with its quantity.
2. Details of safety measures proposed for “hydrogenation” process.
3. Cost of proposed safety precautions due to hydrogenation process shall be added in EMP and revised EMP be submitted.
4. Existing boiler is coal fired while proposed boiler is gas fired. Commitment of PP that existing boiler will also be converted in to gas fired boiler if feasible and mostly gas fired boiler will be used and coal fired boiler will be used standby.
5. Revised CER (@ 1.5%) of project cost additionally incorporating awareness/ training activities including of distribution of masks, sanitizers, and mass sanitization programme in the project affected villages’ w.r.t. COVID-19 pandemic as suggested by the committee during presentation.
6. Commitment of PP that numbering will be done on existing tree with identification mark.

7. Commitment that Solvent Recovery shall be achieved up to 96 %.

PP vide letter dated 19/05/2020 submitted reply of the above query. The query reply was discussed and after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Manufacturing of Synthetic Organic Chemicals, Bulk Drug & its Intermediates Total Plot area 9181 sq.m. category 5(f) at Plot No. 41-42, Sector 3, Industrial Area, Pithampur, Dist. Dhar, (MP)., Cat. - 5(f) Project. Synthetic Organic Chemicals, Bulk drugs & its Intermediates Industry subject to the following special conditions and production capacity:

S.No.	Product/Activity (Capacity/Area)	Quantity	Unit
(1.)	Anti-Fungal & Its Intermediates & Formulation	180	Tons per Annum
(2.)	Anti-Protozoal & its intermediates & Formulation	12	Tons per Annum
(3.)	Antitussives & Its intermediates & Formulation	60	Tons per Annum
(4.)	Control High Blood Sugar & Formulation	60	Tons per Annum
(5.)	API Intermediates	600	Tons per Annum
(6.)	Anti allergic drugs & Its intermediates & Formulation	360	Tons per Annum
(7.)	Anesthetic & Its Intermediates & Formulation	180	Tons per Annum
(8.)	Anti-Hypertension & Its intermediates & Formulation	180	Tons per Annum
(9.)	Anti-Convulsant & Its intermediates & Formulation	120	Tons per Annum
(10.)	Intermediates Of Perfumery	360	Tons per Annum
(11.)	Water Purification Chemical	480	Tons per Annum
(12.)	Anti-Parasitic Worm & Its intermediates & Formulation	180	Tons per Annum
(13.)	Gastrointestinal Tract & Its intermediates & Formulation	180	Tons per Annum
(14.)	Anti-Inflammatory & its intermediates & Formulation	156	Tons per Annum
(15.)	Phase Transfer Catalyst & Intermediate	180	Tons per Annum

(16.)	Anti-Respiratory Disorders & its intermediates & Formulation	180	Tons per Annum
(17)	Anti emetics and Anti nauseates & Its intermediates & Formulation	60	Tons per Annum
(18.)	Treat High Cholesterol & Its intermediates & Formulation	120	Tons per Annum
(19.)	Anti Diabetes & Its intermediates & Formulation	120	Tons per Annum
(20.)	Anti-mold agent bactericide& Its intermediates & Formulation	60	Tons per Annum
(21.)	Food Supplements, vitamins & Formulation	60	Tons per Annum
(22)	R & D Products (Hydrogenation, Bromination etc)	12	Tons per Annum

(A) Statutory compliance:

1. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Madhya Pradesh Pollution Control Board (MPPCB).
2. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time & permission of competent authority if ant tree falling is to be carriedout.
3. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(B) Air quality monitoring and preservation

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to MPPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
3. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed

0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

4. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
5. The company is requesting to allow for the existing Coal fuel as it is difficult for them in this COVID -19 crisis to switch to Gas option immediately, but in the future the company shall switch/add gas option in existing boiler.
6. The DG sets 82 KVA (Existing) and 380 KVA (Proposed) shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
7. DG exhaust will be discharged at height stipulated by CPCB.
8. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
9. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(C) Water quality monitoring and preservation

1. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
2. As already committed by the project proponent Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
3. 98 KLD water will be consumed from AKVN. The effluent shall be segregated as high COD/High TDS(2KLD) process effluent and Low COD/Low TDS (67 KLD)effluents. The HCOD/HTDS shall be neutralized and sent to MEE followed by ATFD. LCOD/LTDS effluent shall be treated in ETP with domestic effluent followed by RO system. The treated effluent shall be entirely reused and recycled inhouse. The rejected RO effluent HCOD(18 KLD) will enter in MEE followed by ATFD for treatment.
4. Adhere to 'Zero Liquid Discharge and No industrial effluent from the unit shall be discharged outside the plant premises. 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.

5. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the Madhya Pradesh Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
6. Total fresh water requirement shall not exceed 98 KLD and as proposed MPAKVN shall provide the fresh water.
7. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
8. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
9. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

(D) Noise monitoring and prevention

1. Acoustic enclosure shall be provided to 82 KVA & 380 KVA DG set for controlling the noise pollution.
2. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
3. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

(E) Energy Conservation measures

1. The energy sources for lighting purposes shall preferably be LED based.
2. The total power requirements for project will be 300 KVA.
3. The power will be supplied by Madhya Pradesh Electricity Board.

(F) Waste management

1. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
2. Hazardous wastes such as Spillage chemical soaked cotton, ETP Sludge, Used oil, Empty barrels/ containers/liners contaminated with hazardous chemicals, process waste/ residue, sludge from scrubber(Inorganic salt), spent catalyst, MEE salt, distillation residue, spent carbon, spent solvent, chemical waste, sent for distillation job worker to authorized recycler, for suitable disposal.

3. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
4. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
5. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
6. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
7. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
8. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
9. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
10. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
11. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
12. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
13. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
14. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
15. The company shall undertake waste minimization measures as below:
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.

- e. Venting equipment through vapour recovery system.
- f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(G) Green Belt

1. Out of 9181 Sq. Mt. area, 3100 Sq. Mt. (33%) area will be covered with the good green belt and desired trees will be planted. The green belt of 5-10 m width will be developed mainly along the periphery and road side. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department.
2. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

(H) Safety, Public hearing and Human health issues

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
3. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
4. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
5. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
6. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
7. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

(I) Corporate Environment Responsibility

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
5. The proposed EMP cost is Rs. 102.0 lakhs as capital and 10.6 lakhs/year as recurring cost.
6. Under CER activity, Rs 26.25 lakhs per year are proposed for different activities.
7. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
8. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

J. Miscellaneous

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.

3. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
4. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
5. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.
6. **Case No. – 6113/2019 Shri Malkan Singh, Haal Mukam, A.M. 111, D.D. Nagar, Dist. Gwalior, MP – 474012 Prior Environment Clearance for Stone Quarry in an area of 2.25 ha. (50,844 cum per annum) (Khasra No. 4174), Village - Parsen, Tehsil - Gwalior, Dist. Gwalior (MP).**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 4174), Village - Parsen, Tehsil - Gwalior, Dist. Gwalior (MP) 2.25 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. QL 30 dated: 25/02/2019 has reported that there are 07 more mines operating or proposed within 500 meters around the said mine with total area of 31.96 ha., including this mine.

The case was scheduled in 367th SEAC meeting dated 01/05/2019 wherein TOR was recommended.

PP has submitted the EIA report vide letter dated 03/03/2020 which was forwarded through SEIAA vide letter no. 4992 dated 09/03/2020.

The case was scheduled for the presentation in 431th SEAC meeting dated 18/03/2020 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.

The case was presented by the PP and their consultant wherein it was observed by the committee through Google image that this is fresh mine. After presentation, PP was asked to provide response on following:

1. Revised CER Incorporate awareness/ training activities including of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic as suggested by the committee during presentation.

PP vide their letter dated 19.05.2020 submitted query reply which was placed before the committee which was found satisfactory and acceptable to the committee. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for, Stone Quarry in an area of 2.25 ha. (50,844 cum per annum) (Khasra No. 4174), Village - Parsen, Tehsil - Gwalior, Dist. Gwalior (MP), subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.
9. Slope stability study shall be carried out before commencing the mining activities.
10. Reject stone shall be sold only after approval of the State Government as per the prevailing rules & regulations.

(B) MINING OPERATIONAL PHASE

11. No overcharging during blasting to avoid vibration.
12. Controlled and muffle blasting shall be carried out considering habitation northern side of the lease.
13. Working height of the loading machines shall be compatible with bench configuration.
14. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
15. No explosive will be stored at the mine site.
16. No intermediate stacking is permitted at the mine site.
17. No dump shall be stacked outside the lease area.
18. Overhead sprinklers shall be provided in mine.
19. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
20. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 2225 nos. of trees (area: 0.75 ha.) shall be planted on barrier zone, backfilled area and along the transportation route.
21. Transportation of material shall be done in covered vehicles.
22. Transportation of minerals shall not be carried out through forest area.
23. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the mine. The size of the drain will be 700 M X 2M X 1.5M. The settling tank will be 01 in number of size 10mx 02m x 02m.
24. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
25. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
26. The existing and proposed land use plan of the mine is as follows:

S. N	Land use	Present Land Use (Area In Hact.)	Land Use After Lease (Area In Hact.)	Land Use After End of Mine Life (Area In Hact.)

1	Pits	0.000	1.500	1.500*
2	Plantation	0.000	0.600	0.750
4	Crusher plant, site office, Rest room, dumps,etc.	0.000	0.150	0.000
5	Un-used	2.250	0.000	Nil
	Total	2.250	2.250	2.250

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

(C) ENTIRE LIFE OF THE PROJECT

32. In the proposed EMP, capital cost is Rs. 8.91 Lakh is proposed and Rs. 07.11 Lakh /year as recurring expenses.
33. Under CSR activity, Rs 0.60 Lakh /year are proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
34. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
35. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
36. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

37. PP will comply with all the commitments made vide letter dated 19.05.2020.
38. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

7. Case No. – 6400/2019 Shri Surjeet Singh, Haal Mukam, A.M. 111, D.D. Nagar, Dist. Gwalior, MP - 474012, Email - ssurjeetsinghh8@gmail.com, Mobile – 9131578376 Prior Environment Clearance for Stone Quarry in an area of 2.00 ha. (57,000 cum per annum for 1st 3 year, 41,610 cum per annum for last 2 years) (Khasra No. 4173), Village - Parsen, Tehsil - Gwalior, Dist. Gwalior (MP).

This is case of Metal Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 4173), Village - Parsen, Tehsil - Gwalior, Dist. Gwalior (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 letter No. QL54 dated: 25/02/19 has reported that there are 07 more mines operating or proposed within 500 meters around the said mine total area of 31.960 ha., including this mine.

The case was presented by the PP and their consultant in 388th SEAC meeting dated 08/08/2019 wherein TOR was recommended.

PP has submitted the EIA report vide letter dated 03/03/2020 which was forwarded through SEIAA vide letter no. 4990 dated 09/03/2020

The case was scheduled for the presentation in 431th SEAC meeting dated 18/03/2020 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.

The case was presented by the PP and their consultant wherein it was observed by the in the Google image that there are no any significant sensitive features within and surrounding of the lease.

After presentation, PP was asked to provide response on following:

1. Revised CER Incorporate awareness/ training activities including of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic as suggested by the committee during presentation.

PP vide their letter dated 19.05.2020 submitted query reply which was placed before the committee which was found satisfactory and acceptable to the committee. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC Stone Quarry in an area of 2.00 ha. (57,000 cum per annum for 1st 3 year, 41,610 cum per annum for last 2 years) (Khasra No. 4173), Village - Parsen, Tehsil - Gwalior, Dist. Gwalior (MP), subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.
9. Slope stability study shall be carried out before commencing the mining activities.
10. Reject stone shall be sold only after approval of the State Government as per the prevailing rules & regulations.

(B) MINING OPERATIONAL PHASE

11. No overcharging during blasting to avoid vibration.
12. Controlled and muffle blasting shall be carried out considering habitation northern side of the lease.
13. Working height of the loading machines shall be compatible with bench configuration.
14. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.

15. No explosive will be stored at the mine site.
16. No intermediate stacking is permitted at the mine site.
17. No dump shall be stacked outside the lease area.
18. Overhead sprinklers shall be provided in mine.
19. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
20. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 2000 nos. of trees (area: 0.405 ha.) shall be planted on barrier zone, backfilled area and along the transportation route.
21. Transportation of material shall be done in covered vehicles.
22. Transportation of minerals shall not be carried out through forest area.
23. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the mine. The size of the drain will be 613 M X 2M X 1.5M. The settling tank will be 01 in number of size 10mx 02m x 02m.
24. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
25. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
26. The existing and proposed land use plan of the mine is as follows:

S. No.	Area Under	Proposed Land Use (Area In Hact.)	Land Use After 5 Year (Area In Hact.)	Land Use After End Of Mine Life (Area In Hact.)
1	Pits	Nil	1.595	0.00
2	Plantation	Nil	0.39	0.405
3	Water reservoir	0.00	0.00	1.595
4	Others (site office etc.)	0.00	0.015	0.00

5	Un used	2.00	0.00	0.00
	Total	2.00	2.00	2.00

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

(C) ENTIRE LIFE OF THE PROJECT

32. In the proposed EMP, capital cost is Rs. 7.56 Lakh is proposed and Rs. 06.59 Lakh /year as recurring expenses.
33. Under CSR activity, Rs 0.60Lakh /year are proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
34. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
35. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
36. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
37. PP will comply with all the commitments made vide letter dated 19.05.2020.
38. 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.

8. Case No 6948/2020 Ku. Meenal Solanki D/o SHree Hirendra Singh, R/o 97, Ward No. 7, Bada Rawla, Tehsil - Alote, Dist. Ratlam, MP Prior Environment Clearance for Stone Quarry and Sealable Murrum in an area of 2.0 ha. (Stone - 3395 cum per annum, Sealable Murrum - 1750 cum per annum) (Khasra No. 4), Village - Khamariya, Tehsil – Alote, Dist. Ratlam (MP)

This is case of Stone Quarry and Sealable Murrum. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 4), Village - Khamariya, Tehsil - Alote, Dist. Ratlam (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 letter no. 3095 dated: 28/3/2019 has reported that there are 06 more mines operating or proposed within 500 meters around the said mine with total area of 13.620 ha., including this mine.

The case was presented by the PP and their consultant, being it's a case Stone Quarry and Murrum with total area of 13.620 ha., including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

- Incorporate awareness/ training activities including of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

9. Case No 6947/2020 Shri Akil Hussain, R/o Pir Gali, Pansemal, Dist. Barwani, MP - 451770, Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (2470 cum per annum) (Khasra No. 131/4, 133/2), Village - Dondwada, Tehsil - Pansemal, Dist. Barwani (MP)

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 131/4, 133/2), Village - Dondwada, Tehsil - Pansemal, Dist. Barwani (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 letter no. 328 dated: 29/2/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

During presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	>76	South -West	Setback of 25 meters and Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Human settlement	>140	West	Protection plan & muffle blasting with arrangements of sand bags and three rows of Plantation in this side.

After presentation the committee asked to submit following details:

- Commitment for leaving setback of 25 meter towards human settlement side.
- Revised blasting parameters with details of sand bags to be deployed.
- Proposed safety measures during blasting.
- Revised EMP as suggested during presentation.
- Revised CER- incorporate awareness/ training activities including of distribution of masks, sanitizers and mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 2470 cum/annum.
2. Setback of 25 meter to be left towards human settlement side.
3. A budgetary provision for Environmental management Plan of Rs.06.29 Lakh as capital and Rs. 02.85 Lakh/year and under CSR Rs. 0.60 Lakh/years has proposed.

10. Case No 6794/2020 Shri Santosh Nayak, Village - Gudali, Tehsil - Meghnagar, Dist. Jhabua, MP – 457772 Prior Environment Clearance for Stone Quarry in an area of 4.00 ha. (24,832 cum per annum) (Khasra No. 68), Village - Tejpura, Tehsil - Thandla, Dist. Jhabua (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 68), Village - Tejpura, Tehsil - Thandla, Dist. Jhabua (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 Tehsildar Office letter No. 690 dated: 28/06/19 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for presentation, wherein neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. PP was also absent in the 426th SEAC meeting dated 27/2/2020 & 424th SEAC meeting dated 12/02/2020 and. Committee decided to call the PP in subsequent meetings giving last chance to present their case and even if PP remains absent the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was scheduled for 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. Earlier PP was also absent in SEAC meeting 426th SEAC meeting dated 27/2/2020 & 424th SEAC meeting dated 12/02/2020. Committee decided that since sufficient opportunities has been given to the PP for appraisal of their case but PP remains absent thus committee decided that case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

11. Case No 6980/2020 Shri Pradeep Kumar Keshari, Village - Raghunathgarh, Tehsil - Hanumana, Dist. Rewa, MP Prior Environment Clearance for Stone Quarry in an area

of 3.0 ha. (As per Mine Plan 42134 cum per annum) (Khasra No. 239/2), Village - Raghunathgarh, Tehsil - Hanumana, Dist. Rewa (MP)

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 239/2), Village - Raghunathgarh, Tehsil - Hanumana, Dist. Rewa (MP) 3.0 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 letter no. 5553 dated: 26/9/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

During presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	>370	east	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Revised layout on Environmental map.
- Revised blasting parameters with details of sand bags to be deployed.
- Revised CER- incorporate awareness/ training activities including of distribution of masks, sanitizers and mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 42,134cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 10.62 Lakh as capital and Rs. 4.862 Lakh/year and under CSR Rs. 0.60 Lakh/years has proposed.

12. Case No 6990/2020 M/s S.R.Traders, Shri Subodh Dwivedi, Kusum Kunj, Suncity, Choubey Colony, Dist. Chhatarpur, MP – 471001 Prior Environment Clearance for Stone Quarry in an area of 1.450 ha. (79235 cum per annum) (Khasra No. 366/1/Ka), Village - Jhinna, Tehsil - Lavkhush Nagar, 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. 366/1/Ka), Village - Jhinna, Tehsil - Lavkhush Nagar, Dist. Chhatarpur (MP) 1.450 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 letter no. NIL dated: NIL has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 4.4 ha., including this mine.

During presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
03 Trees	Within lease	West	Inventory of the trees and One tree falling is proposed. PP will take permission from competent authority.
Pucca Road	>400	NW- SW	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Human settlement	>370	SW	

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After presentation the committee asked to submit following details:

- PP will submit revised DFO certificate.
- Revised blasting details adding sand bags.
- One tree falling is proposed commitment from PP that permission will be taken from competent authority.
- Proposal for 2000 plantation.
- Revised CER- incorporate awareness/ training activities including of distribution of masks, sanitizers and mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 79,235 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.41 Lakh as capital and Rs. 3.836 Lakh/year and under CSR Rs. 0.60 Lakh has proposed.

13. Case No 6788/2020 M/s Nakoda Construction Company, Partner - Shri Ahhay Jain, 3-4, Diamond Colony, Dist. Indore, MP – 452001 Prior Environment Clearance for Construction of Proposed "Golden Palm" (Total Plot Area – 30,687.30 sqm, Total Proposed Built up Area – 50,765.88 sqm) at Khasra No. – 200/1, 201, 203, 204, 206, 207, 214/1, 214/2, Village - Niranjanpur, Tehsil - Indore, Dist. Indore, MP. Category: 8(a) Building & Construction Project.

This is case of Prior Environment Clearance for Construction of Proposed "Golden Palm" (Total Plot Area – 30,687.30 sqm, Total Proposed Built up Area – 50,765.88 sqm) at Village - Niranjanpur, Tehsil - Indore, Dist. Indore, M.P. Cat. - 8(a) Building and Construction Projects.

Earlier this case was scheduled for presentation in 422th SEAC meeting dated 10/02/2019, 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 and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was scheduled again for 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. PP was also absent in the 427th SEAC meeting dated 28/2/2020 & 422th SEAC meeting dated 10/02/2019. Committee decided to give last chance to PP for making presentation in the subsequent meetings of SEAC after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

This case was presented by PP and their consultant starting with chronology of the project as-

The “Golden Palm” Group Housing (Residential Project) at Khasra 200/1, 201, 203, 204, 206, 207, 214/1, 214/2, Village-Niranjanpur, Tehsil & Dist. Indore, MP is proposed by “M/s. Shree Nakoda Construction Company” Address: 3-4, Diamond Colony, Indore, M.P in which total 888 units are proposed where 840 units are already constructed and 48 are remaining for construction. At present there are 462 units in which possession have been already given nearly 52 % of the total proposed units. This case was submitted to SEIAA on 03.08.2017 which is between the violation window periods between 14.03.2017 to 13.04.2018. During discussion and perusals of the documents it was observed by the committee that it is a case of violation of EIA Notification, 2006 as PP has already started construction activities. Committee observed that according to the latest MoEF &CC Notification dated 09/Sep/2019 only those proposals of

violation may be taken up for consideration under the provisions of MoEF&CC notifications on no. F/22-10/2019-1d-III dated 22.09.2019 dated 14/03/2017 to 03/09/2017 & 08/03/2018 to 13/04/2018.

Committee considering the recent GoI, MoEF & CC Notification dated 8th March, 2018 recommends that case may be dealt as per the provisions laid down in this notification and the project may granted Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as a independent chapter in the EIA report by the accredited consultant and the collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory accredited by the National Accreditation Board for Testing and Calibration Laboratories.

Hence committee recommended to issue additional TOR as per notification dated 08th March 2018 along with standard TOR prescribed by the MoEF&CC for conducting the EIA as follows:-

1. Project description, its importance and the benefits.
2. Project site detail (location, toposheet of the study area of 10 Km, coordinates, Google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage.
3. Land use as per the approved Master Plan of the area, permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water Supply & Sewerage Board etc.
4. Land acquisition status, R & R details.
5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 Km Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.
6. Baseline environmental study for ambient air (PM10, PN2.5, SO₂, NO_x & CO), water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF & CC/CPCB guidelines at minimum 5 locations in the study area of 10 Km.
7. Details on flora and fauna and socio-economic aspects in the study area.
8. Likely impact of the project on the environmental parameters (ambient air, surface and ground water, land, flora and fauna and socio-economic, etc.)
9. Sources of water for different identified purpose with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.

10. Waste water management (treatment, reuse and disposal) for the project and also the study area
11. Management of solid waste and the construction & demolition waste for the project vis-à-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
12. Energy efficient measures (LED lights, solar power, etc) during construction as well as during operational phase of the project.
13. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environmental (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
14. Preparation of EMP comprising remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
15. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

14. Case No 6946/2020 M/s Indore Municipal Corporation, 107, 109, First Floor, Palika Plaza, Dist. Indore, MP – 452007 Prior Environment Clearance for Development of Residential Township Comprising of EWS and LIG units at Palash Parisar Phase-II (Total Plot Area = 76650.00 sqm, Total Built up Area = 109274.182 sqm) at Village - Rau and Nihalpurmundi, Tehsil - Rau, Dist. Indore, (MP)

This is case of Prior Environment Clearance for Development of Residential Township Comprising of EWS and LIG units at Palash Parisar Phase-II (Total Plot Area = 76650.00 sqm, Total Built up Area = 109274.182 sqm) at Village - Rau and Nihalpurmundi, Tehsil - Rau, Dist. Indore, (MP)

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 6991/2020 Shri Abhishek Singh S/o Shri Awadh Singh, R/o H.No. 17, Ward No. 23, Shital Homes, Mandideep, Dist. Raisen, MP – 462042 Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (11628 cum per annum) (Khasra No. 31, 32 Parts), Village - Pipaliya Kesho, Tehsil - Kolar, Dist. Bhopal (MP)

This is case of Murrum Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 31, 32 Parts), Village - Pipaliya Kesho, Tehsil - Kolar, Dist. Bhopal (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 Tehsildar Office letter no. NIL dated: 4/1/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

During presentation as per Google image based on coordinates provided by PP, the lease area is already mined out before 2019, PP stated that the lease is allotted to them in 2019 and volume of extracted material has deducted from the available reserve in the mine plan and thus they have got the mine in this condition. Within 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
School	>400	SW	No blasting is proposed.
Human settlement	>400	SE	Three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Revised CER- incorporate awareness/ training activities including of distribution of masks, sanitizers and mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Murrum 11,628 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 9.90 Lakh as capital and Rs. 3.40 Lakh/year and under CSR Rs. 0.40 Lakh/years has proposed.

16. Case No 6949/2020 Shri Bhagchand Nebhnani S/o Shri Manakchand Nebhnani, R/o 109, Padam Nagar, Dist. Khandwa, MP Prior Environment Clearance for Stone Quarry in an area of 2.250 ha. (40000 cum per annum) (Khasra No. 138), Village - Saktapur, Tehsil - Harsud, Dist. Khandwa (MP)

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 138), Village - Saktapur, Tehsil - Harsud, Dist. Khandwa (MP) 2.250 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. 9594 dated: 29/5/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

During presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Kachcha Road	60 & 60	West & East	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

During presentation it was observed from the Google image that a trench cutting is done for lying of pipeline which is passing through the lease for which PP was unable to provide any details. After presentation the committee asked to submit following details:

- Details about trench like structure passing from the lease and its photographs.

- Commitment from PP that they will be sowing of prosopis seeds on garland drain soil to protect top soil.
- Revised CER- incorporate awareness/ training activities including of distribution of masks, sanitizers and mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

17. Case No 6952/2020 Shri Sunil Kumar, Village - Sothar, Tehsil - Goharganj, Dist. Raisen, MP – 464551 Prior Environment Clearance for Murrum Quarry in an area of 1.0 ha. (5767 cum per annum) (Khasra No. 84/2/1), Village - Sothar, Tehsil - Goharganj, Dist. Raisen (MP)

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 84/2/1), Village - Sothar, Tehsil - Goharganj, Dist. Raisen (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 letter no. 1492 dated: 20/1/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

During presentation as per Google image based on coordinates provided by PP, the lease area is already mined out since 2019, PP stated that volume of extracted material has deducted from the available reserve. Within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	100	North	No blasting is proposed. Three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Revised EMP, add proposal of grazing land and sprinklers though overhead.
- Revised plantation as suggested by committee.

- Revised CER- incorporate awareness/ training activities related to traffic and also include of distribution of masks, sanitizers in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Murrum 5767 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 3.62 Lakh as capital and Rs. 1.58 Lakh/year and under CSR Rs. 0.50 Lakh has proposed.

18. Case No 6951/2020 Mohd. Salman Khan, Ward No. 9, Talab Muhalla, Dist. Raisen, MP - 464551 Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (7700 cum per annum) (Khasra No. 223, 225), Village - Parsoura, Tehsil - Raisen, Dist. Raisen (MP)

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 223, 225), Village - Parsoura, Tehsil - Raisen, Dist. Raisen (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 Mining Inspector letter dated: 10/10/2019 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, during appraisal of the case it was observed that in the mining plan coordinates were not provided thus, unable to locate the lease on Google map as well as assess the sensitive features. Hence committee asked PP to submit coordinates duly verified by the competent authority.

19. Case No 6928/2020 Shri Amit Kumar Jain, H.No. 181, Mahakali Ward, Deori, Dist. Sagar, MP Prior Environment Clearance for Stone Quarry in an area of 4.00 ha. (1,800 cum per annum) (Khasra No. 01), Village - Semrakhedi, Tehsil - Deori, 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. 01), Village - Semrakhedi, Tehsil - Deori, Dist. Sagar (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 letter no. 1507 dated: 13/11/2019 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 in 431th SEAC meeting dated 18/03/2020 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.

The case was presented by the PP and their consultant, during appraisal of the case file it was observed that the Mining Officer has mentioned that there are no mines within 500 meters of this mine while on Google map two more mine can be seen hence, committee asked PP to submit revised MO certificate related to give information of mines within 500 meters.

20. Case No 7005/2020 Shri Narayan Singh Thakur, Tehsil - Banda, Dist. Sagar, MP - 480001, Prior Environment Clearance for Flag Stone Quarry in an area of 1.21 ha. (1641 cum per annum) (Khasra No. 294, 303), Village - Ratanpur, Tehsil - Shahgarh, 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. 294, 303), Village - Ratanpur, Tehsil - Shahgarh, Dist. Sagar (MP) 1.21 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. 1646 dated: 30/12/2019 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine with total area of 4.97 ha., including this mine.

During presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Natural Drain	On boundary of the lease	North- East	Provision of Garland drain & settling tanks.

After presentation the committee asked to submit following details:

- PP will proposed revised method of mining wherein no blasting should be proposed as Flagstone doesn't required blasting operation.
- Revised CER- incorporate awareness/ training activities related to traffic and also include of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Flag Stone 1641 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 10.59 Lakh as capital and Rs. 0.95 Lakh/year and under CSR Rs. 0.30 Lakh/years has proposed.

21. Case No 7008/2020 Smt. Kiran Mishra, Village - Rampur, Tehsil - Rampur Nakin, Dist. Sidhi, MP – 486661 Prior Environment Clearance for Earth Quarry in an area of 2.0 ha. (10000 cum per annum) (Khasra No. 298/1, 298/2), Village - Rampur, Tehsil - Rampur Naikin, Dist. Sidhi (MP)

This is case of Earth Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 298/1, 298/2), Village - Rampur, Tehsil - Rampur Naikin, Dist. Sidhi (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 letter no. NIL dated: NIL has reported that there are no more mines operating or proposed within 500 meters around the said mine with.

During presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
About 18 Trees	Within lease	Disperse within lease	Inventory of the trees and commitment that no mining shall be performed in the trees occupied area.
Human settlement	>150	NW	Protection Plan

During presentation it was also observed that on north-east side some trees are in existence for which PP submitted that these trees will be protected as it's a earth query. After presentation the committee asked to submit following details:

- Commitment that no tree will be uprooted.
- Revised CER- incorporate awareness/ training activities related to traffic and also include of distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

PP has submitted the response of above quarries same date vide letter dated 19.05.2020, 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for bentonite earth 10,000 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 1.50 Lakh as capital and Rs. 0.60 Lakh/year and under CSR Rs. 0.30 Lakh/years has proposed.

(Dr. Anil Sharma)
Member

(Dr. Mohd. Akram Khan)
Member

(Dr. Sonal Mehta)
Member

(Dr. R. Maheshwari)
Member

(Dr. Jai Prakash Shukla)
Member

(R.S.Kori)
Secretary

(Mohd. Kasam Khan)
Chairman

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions and cases appraised for grant of TOR:

Annexure- 'A'

Standard conditions applicable to Stone/Murram and Soil quarries:

1. Mining should be carried out as per the submitted land use plan and approved mine plan.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and fenced from all around the site. Necessary safety signage & caution boards shall be displayed at mine site.
3. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
5. Mineral evacuation road shall be made pucca (WBM/black top) by PP.
6. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
7. Crusher with inbuilt APCD & water sprinkling system shall be installed minimum 100 meters away from the road and 500 meters away from the habitations only after the permissions of MP Pollution Control Board with atleast 03 meters high wind breaking wall of suitable material to avoid fugitive emissions.
8. Thick plantation shall be carryout in the periphery/barrier zone of the lease, mineral evacuation road and common area in the village. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
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/competent authority.
10. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
11. 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. 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.
12. To avoid vibration, no overcharging shall be carried out during blasting and muffle blasting shall be adopted. Blasting shall be carried out through certified blaster only and no explosive will be stored at mine site without permission from the competent authority.
13. Mine water should not be discharged from the lease and be used for sprinkling & plantations. For surface runoff and storm water garland drains and settling tanks (SS pattern) of suitable sizes shall be provided.
14. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
15. 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.
16. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.

17. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
18. 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.
19. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
20. All the mines where production is > 50,000 cum/year, PP shall develop its own website to display various mining related activities proposed in EMP & CER along with budgetary allocations. All the six monthly progress report shall also be uploads on this website along with MoEF&CC & SEIAA, MP with relevant photographs of various activities such as garland drains, settling tanks, plantation, water sprinkling arrangements, transportation & haul road etc. PP or Mine Manager shall be made responsible for its maintenance & regular updation.
21. All the soil queries, the maximum permitted depth shall not exceed 02 meters below general ground level & other provisions laid down in MoEF&CC OM No. L-11011/47/2011-IA.II(M) dated 24/06/2013.
22. The mining lease holders shall after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Moreover, A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.

Annexure- 'B'

Standard conditions applicable for the Sand Mine Quarries*

1. District Authority should annually record the deposition of sand in the lease area (at an interval of 100 meters for leases 10 ha or > 10.00 ha and at an interval of 50 meters for leases < 10 ha.) before monsoon & in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority shall allow lease holder to excavate only the replenished quantity of sand in the subsequent year.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars. Necessary safety signage & caution boards shall be displayed at mine site.
3. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. The mining activity shall be done manually and as per the land use plan & approved mine plan submitted by PP.
5. 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 trolleys (tractor trolleys) and not by heavy vehicles. Only registered tractor trolleys 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.
6. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
7. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.

8. 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.
9. No Mining shall be carried out during Monsoon season.
10. The depth of mining shall be restricted to 3m or water level, whichever is less. No in-stream mining is allowed. Established water conveyance channels should not be relocated, straightened, or modified.
11. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC ensuring 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.
12. 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.
13. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
14. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
15. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
16. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
17. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
18. 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. 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.
19. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
20. 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.
21. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
22. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
23. 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.
24. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
25. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020

Annexure- 'C'

Standard conditions applicable for the Sand deposits on Agricultural Land/ Khodu Bharu Type Sand Mine Quarries*

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
3. The mining shall be carried out strictly as per the approved mining plan.
4. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and necessary safety signage & caution boards shall be displayed at mine site.
5. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
6. The mining activity shall be done as per approved mine plan and as per the land use plan submitted by PP.
7. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
8. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
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 mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
12. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
13. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
14. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
15. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
16. 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. 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.
17. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
18. 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.
19. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.

20. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
21. 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.
22. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
23. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020

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. During monitoring, photographs shall be taken as a proof of the activity with latitude & longitude, date, time & place and same shall be attached with the EIA report. A drone video showing various sensitivities of the lease and nearby area shall also be shown during EIA presentation.
3. 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.
4. An inventory of flora & fauna based on actual ground survey shall be presented.
5. Risk factors with their management plan should be discussed in the EIA report.
6. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
7. The EIA document shall be printed on both sides, as far as possible.
8. All documents should be properly indexed, page numbered.
9. Period/date of data collection should be clearly indicated.
10. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
11. 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.
12. 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.
13. Grant of TOR does not mean grant of EC.
14. 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. If consultant has engaged other laboratory for carrying out the task of monitoring and analysis of pollutants, a representative from laboratory shall also be present to answer the site specific queries.
15. 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.
16. 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.
17. All the necessary NOC's duly verified by the competent authority should be annexed.
 18. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
 19. 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.
 20. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
 21. 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.
 22. 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.
 23. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
 24. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006. The issues raised in public hearing shall be properly addressed in the EMP and suitable budgetary allocations shall be made in the EMP and CER based on their nature.
 25. Actual measurement of top soil shall be carried out in the lease area at minimum 05 locations and additionally N, P, K and Heavy Metals shall be analyzed in all soil samples.
 26. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
 27. PP shall submit biological diversity report stating that there is no adverse impact in- situ and on surrounding area by this project on local flora and fauna's habitat, breeding ground, corridor/ route etc. This report shall be filed annually with six-monthly compliance report.

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.

28. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
29. Detailed analysis of availability and quality of the drinking water resources available in the block.
30. 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.
31. The consent of Gram Sabha of the villages in the area where project is proposed shall be obtain.