

The 529th meeting of the State Expert Appraisal Committee (SEAC) was held on 24th November, 2021 under the Chairmanship of Dr. Praveen Chandra Dubey for the projects / issues received from SEIAA. The following members attended the meeting in person or through video conferencing –

1. Shri Raghvendra Shrivastava, Member.
2. Prof. (Dr.) Rubina Chaudhary, Member
3. Dr. A. K. Sharma, Member.
4. Prof. Anil Prakash, Member.
5. Prof. (Dr.) Alok Mittal, Member
6. Dr. Jai Prakash Shukla, Member.
7. Dr. Ravi Bihari Srivastava, Member.
8. Shri A.A. Mishra, Member Secretary.

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

1. Case No 7271/2020 Smt. Lata Mishra W/o Late Shri Prabhakar Mishra R/o Civil Line Road, Infront of Sindhi Dharmshala, Tikamgarh (MP), Prior Environment Clearance for approval of Nadanwara Pyrophyllite & Diaspore Mine in an area of 8.640 ha. (21005 TPA) (Khasra No. 1, 3 & 10) at Village- Nadanwara, Tehsil- Jatar, District- Tikamgarh (MP). M/s. Creative Enviro Services , Bhopal.

This is case of Pyrophyllite & Diaspore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 1, 3 & 10) at Village- Nadanwara, Tehsil- Jatar, District- Tikamgarh (MP) 8.640 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. 855 dated 29/8/2016 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 18.312 ha., including this mine.

Earlier this case was scheduled for presentation and discussion in 449th SEAC dated 24/07/2020 wherein ToR was recommended. PP has submitted the EIA report forwarded through SEIAA on-line and the same was scheduled in the agenda.

The case was presented by Env. Consultant Shri Umesh Mishra from M/s. Creative Enviro Services, Bhopal and shri Harsh Mishra on behalf of PP wherein PP submitted

that this is case of mining of Pyrophyllite & Diaspore. During presentation, following salient features and background of project submitted by PP:

- Initially the environment clearance for the project was applied in the year 2013 under Category B-1. Draft ToR was received on 30-07-13 and ToR was approved on 05-08-13.
- After submission of draft EIA report, public hearing was conducted on 28.08.2014. Public Hearing report received from MPPCB on 25.11.14 and sent to SEAC on 1.12.14.
- The final EIA was submitted at SEIAA on 06.06.15 & sent to SEAC on 23.06.15. Due to family crisis, final appraisal could not be done and case was delisted.
- The project was again applied under category B-2 on 16.11.2016 and was appraised at SEAC in its 297th meeting dated 8.11.2017.
- The case was appraised and recommended with condition of submission of valid mining plan and due to non submission of mining plan, the case was delisted on 15.12.2017
- Since mining is not operated till date, proponent has proposed to apply fresh with increased capacity to meet out the viability and again apply fresh for ToR under B-1 Category 22.06.2020. The public hearing was conducted on 13.08.2021 and final EIA was submitted to SEIAA for appraisal on 06.11.2021.
- About nine pit are observed in northern hillock and two pits are located in southern hillock. Existence of Pyrophyllite is seen along with quartzite, traces of diasporas are also seen in this pits. Pyrophyllite of the area is light greenish and brownish in color and diaspore of the area is grayish white in color. The trend of rocks in the area is north east –south west having 35 to 45 degree dip towards north west.

Objective	To obtain EC for Nandanwara Pyrophyllite And Diaspore Mine
Name of mine	Nandanwara Pyrophyllite And Diaspore Mine (8.640 ha)
Project Proponent	Smt. Lata Mishra W/o Late. Shri Prabhakar Mishra
New mine/ existing mine	50 years from 04.06.1987 to 03.06.2037
Name of the mineral	Pyrophyllite And Diaspore
Location of Project & Khasra No.	Khasara No. : 1, 3, 10 Village - Nandanwara, Tehsil- Mohangarh, Dist. Tikamgarh(MP)

Lease area and Production	Area : 8.640 ha Production : ROM -44500m ³ per year (Pyrophyllite – 19447TPA, Diaspore- 1558TPA, Waste – 35600cubic meter per year)
land use of lease area	Gov. Waste Land
No. of mine located with 500m radius	1.) Eastern Mineral (9.672 ha) – EC granted Total area- 18.312ha
Elevation	340-300 M
Surrounding features	East- Agricultural land followed by Other Mine & Talab West – Canal followed by agricultural land and Village North –Agricultural land South – Agricultural land

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	8.64ha
Mineable Area	1.2950 ha
Existing Pits & Quarries	0.3761ha
Existing Dumps	0.3114 ha
Infrastructure and road	0.008ha
Mineral Storage	Nil
Total Minalbe Reserve	Pyrophyllite – 49363T, Diaspore- 3954T
Proposed Capacity	ROM - 44500m ³ (Pyrophyllite – 19447TPA, Diaspore- 1558TPA, Waste – 35600m ³ per year)
Method of mining	Manual
Ultimate Depth of Mining	8m bgl (292 mRL)
Expected Life of Mines	4 years

Lease Period	50 years up to 2037
Area to be covered under dumps in proposal period	Nil
Area covered under pit in conceptual period	1.4283 ha
Area to be reclaimed by conceptual period	0.3364ha
Area to be rehabilitated by afforestation in CP	3.00 ha
Area to be covered under water reservoir	0.4222 ha
Ground water table (Pre-monsoon)	20m bgl (280mRL) to 22m bgl (278mRL)
Ground water table (Post-monsoon)	15m bgl (285mRL) to 18m bgl (282mRL)
Assumed per day production @300days	70 MT
Per day dumper requirement with capacity	3 dumper per day, capacity of dumper 24 t
End user of mineral	Pesticide, refractory industries

During presentation PP submitted that area on the northern side is very narrow and occupied by trees thus this area will not be mined out and will left as non mining area. PP further submitted that rock breaker will be used for mining and blasting will not be carried out. For two-three houses within the lease, PP submitted that this is a government lease and occupancy is illegal, however, they are agree for shifting and some compensation will be provided by the PP. A pucca road is crossing the lease for which PP submitted that 45 meters setback is proposed on the both sides of road within the lease. Committee recommends that 50-50 meters setback shall be left on the both sides of the lease and high density plantation shall be carried out on this non mining area. PP further submitted that OB will be simultaneously backfilled and maximum storage will be for a week. For pits in existence within the lease, PP submitted that these old pits are due to prospecting and since mine was sanctioned in the 1987 it was partially operated till 1994. After presentation committee asked PP to submit response on following information provided such as:

1. Detailed reply on public hearing issues.
2. Address additional TOR point no. 1,4 & 6.
3. Justification for existing dump.

4. Revised Green belt plan (plants with broad leaves of ever green species) with species as suggested by committee.
5. Revised EMP with addition plantation cost as high density plantation in the non – mining area in northern side of the lease.
6. Revised CER add proposal for oral hygiene, hand pumps for villagers and distribution of water saucer 10 nos. in the wild life habitat near Kundesswar with consultation of local DFO.

PP vide their letter dated 24/11/2021 submitted hard copy. The point wise query reply. PP submitted that they made necessary corrections in the proposal/documents and submitted desired information. The EMP and other submissions made by the PP were found 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 as per approved mine plan with quantity not exceeding for Pyrophyllite & Diaspore – 21,005 TPA.
2. A budgetary provision for Environmental management Plan of Rs. 40.04 Lakh as capital and Rs. 17.55 Lakh/year as recurring has proposed by PP.
3. As proposed, a minimum of 11,600 trees shall be planted as per the submitted plantation scheme.
4. Under CER following activities were submitted by PP:

Commitment towards public hearing Issue in terms of Physical Target		
SN	Issues	Recurring Cost
1	Providing two handpumps at village Shankargarh and Nadanwara (Aganwadi center)	3.00 lakh
2	To organized health camp at village Nadanwara, shankargarh (half yearly basis) including vaccination and oral hygienic aspects	1.0 lakh
3	Through R&R is not applicable however 1.0 Lakh shall be given to each house on humanity ground	2.00 lakh
4	Development of water saucer (5 no) for Chital Kundeshwar Forest area	0.25
	Total	6.25

2. Case No 8780/2021 M/s Sagar Services and Resources Pvt. Ltd, Shri Siddharth Agrawal, Director, E-2/4, Arera Colony, Dist. Bhopal, MP - 462016 Prior Environment Clearance for Construction of 300 Bedded Sagar Multispecialty Hospital Project at Khasra no. 328/2/2/2, 330, 331, 332, 328/2/4, 330, 331, 332, 328/2/5, 330, 331, 328/330/331/2/3, at Village - Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal (MP) [Total Land Area = 5377.620 sq. mtrs.], [Total Proposed Built Up area- 25539.6 sqmt] , Cat.-8(a) Building Construction. M/s. Creative Enviro Services , Bhopal.

This is case of Prior Environment Clearance for Construction of 300 Bedded Sagar Multispecialty Hospital Project at Village - Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal (MP).

The case was presented by Env. Consultant Shri Umesh Mishra, M/s. Creative Enviro Services , Bhopal and PP Shri Pulkit M/s. Sagar Services and Resources Pvt. Ltd. It is a multispecialty hospital project with provision of green features like solar power plant (20 KW), MBBR technology based STP (220 KLD) and ETP of 40 KLD, MSW management, energy conservation measures, rain water harvesting system etc. PP has obtained permission from BMC for water supply, sewage disposal and MSW disposal. Following details of the project were presented by PP:

Proposal for Environmental Clearance For Proposed Multispecialty Hospital	
Number of Beds	300 Beds
Total Land Area	Total Land Area = 5377.620 sq. mtrs.
Total Built up Area	Total Proposed Built Up area (Slab Area Including all common passages, parking, podium etc.) = 25539.6 sqmt
Land Owner of the Project	Sagar Services and Resources Pvt. Ltd. Through Director Shri Siddharth Agrawal
Promoters of the Project	Sagar Services and Resources Pvt. Ltd. Through Director Shri Siddharth Agrawal
Location of Project	328/2/2,330,331,332,328/2/4,330,331,332,328/2/5,330,331,328/330/331/2/3, Hoshangabad Road, Bhopal (MP)
Occupancy of land	Owned by PP
Geological Location	Latitude : 23°10'16.85"N and Longitude : 77°27'40.61"E

Surrounding Features	((a) East -60 m wide Hoshangabad Road (b) West - Shree Ram Colony (c) North- Vasundhara Marriage Garden (d) South- Shankar Sevani and Colony Road
Facility	Multispecialty Hospital Facility for Medical Services (300 Bedded)
Total Plot Area	5377.620 sqmt
Total Built up area	25539.6 sqmt
Covered Area (F.A.R)	10668.430 sqmt
Total Water Requirement	271 KLD
Total Sewage Waste Water Generation	217 KLD (180 KLD+ 37KLD)
Total Flushing Water Requirement	65 KLD
Net fresh water requirement	200KLD
Power Requirement	1763 KW (approx)
Backup Power facility	DG set of 3X1010 KVA
Solid Waste Generation	500 Kg per day
Bio Medical Waste Generation	150 Kg per day
Area of parking	4282.7Sq Mtrs (Basement 2, Basement 3 & Ground floor)
Number of vehicles to be parked	181 Four Wheelers + 109 Two Wheelers ECS
Height of Buildings	27.4Mtr
Area under Green belt	750 Sq. Mtrs. (13.9% Open Area) is provided

During presentation it was suggested by committee that being a project establishing for common public PP should explore the possibility of getting green rating and mechanical parking to reduce parking load on public roads. Committee after presentation and deliberation asked PP to submit response on following issues such as:

1. All the drawings shall be submitted on A3 paper size.
2. Provision for increased number of parkings.
3. Sources of inlet water for STP & ETP.
4. Disposal plan of ETP & STP sludge.
5. Regarding provision of DG set for power back up
6. Revised plantation includes plant like ornamental tree like Pride of India, Tikoma, Amaltas, Kachnar, Sita- Ashok, Harsingar, Neem, Kadamb & Shedded trees around the building and medicinal plants herbs, shrubs, climber for gardening of terrace shall also be proposed etc. as suggested by committee .
7. Revised EMP with additional cost of plantation.
8. Revised CER add proposal of awareness camps for oral hygiene safety, Proposal for adoption of wild life in VanVihar Nationa Park with the consultation of Director, Van Vihar, Bhopal.

PP vide letter dated 24.11.2021 has submitted the response on above quarries which was placed before the committee in the afternoon session. The query reply was discussed with PP and their consultant and the submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Construction of 300 Bedded Sagar Multispecialty Hospital Project at Khasra no. 328/2/2/2, 330, 331, 332, 328/2/4, 330, 331, 332, 328/2/5, 330, 331, 328/330/331/2/3, [Total Land Area = 5377.620 sq. mtrs.], [Total Proposed Built Up area- 25539.6 sqmt]at Village - Bawadia Kalan, Tehsil - Huzur, Dist. Bhopal (MP), Cat. 8(a) subject to the following special conditions:

I. Statutory Compliance

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. 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 concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.

- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

II. Air Quality Monitoring and preservation

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF & CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. Total Power Requirement for the proposed project is 163 KVA
- v. Diesel power generating sets proposed (Capacity – 1010 KVA X 3) as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG Sets should be equal to the height needed for the combined capacity of all proposed DG sets. Low sulphur diesel shall be used on DG Sets. The location of the DG sets may be decided with in consultation with MP Pollution Control Board.
- vi. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking wills all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vii. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- viii. Wet jet shall be provided for grinding and stone cutting.
- ix. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.

- x. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- xi. The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality, the ventilation provisions as per National Building Code of India shall be provided.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed 200 KLD, and treated water available for reuse will be 188 KLD.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be monitored and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. PP should explore the possibility of providing water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation.

- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. Rain water harvesting recharge pits 2 nos. shall be provided for ground water recharging as per the CGWB norms.
- xii. All recharge should be limited to shallow aquifer.
- xiii. No ground water shall be used during construction phase of the project.
- xiv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering, if any.
- xv. Sewage shall be treated in the STP 220 KLD with tertiary treatment whereas effluent from Laundry, OPD, OT, Pathology labs shall be treated in the ETP of 40 KLD. The treated effluent from STP of 188 KLD from STP shall be recycled/re-used for flushing and gardening. The 23 KLD treated surplus water and treated effluent from ETP shall only be disposed in to municipal drain after having approval from the competent authority.
- xvi. No sewage or untreated effluent water would be discharged through storm water drains.
- xvii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problems from STP.
- xviii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
- xix. The sludge from the ETP and other biomedical waste shall be disposed off common bio medical waste treatment facility, Manideep Dist Raisen (MP)

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

- iii. Acoustic enclosures for DG sets (Capacity– 3X1010 KVA), noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures.

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Energy conservation measures like installation of LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- iv. Solar, wind or other Renewable Energy shall be installed in meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-law's requirement, whichever is higher.
- v. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power.

VI. Waste Management

- i. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- ii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (500 KGD) shall be segregated into wet garbage and inert materials.
- iii. Separate coloured bins shall be provided for collection and storage of biomedical waste (150 kg per day) as per Bio Medcial Wsate Treatment Act 2016 and shall be disposed off at common bio medical waste treatment facility, Mandideep Dist Raisen (MP)
- iv. E-waste (100 Kg/Year) should properly dispose of through authorized vendors.
- v. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the MP Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity.

These include fly ash brick, hollow bricks AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.

- viii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- x. Used CFLs, TFLs and other e-waste should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid contamination.

VII. Green Cover

- i. Not tree can be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii. Peripheral plantation of broad leaves 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 plantation scheme minimum of 350 no's of trees to be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
- iii. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iv. The 750 sq. meters (14%) of total area shall be provided for green belt development as per the details provided in the project document.
- v. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
- vi. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stock piled appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.

VIII Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.

- a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. Parking's for 364 Nos. as proposed by PP over area of 4282.7Sq Mtrs inclusive of Basement 2 ,Basement 3& Ground floor
- A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human health issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation, provisions as per National Building Code of India shall be provided.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- iv. Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. EMP & Corporation Environment Responsibility

- i. 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.
- ii. In the EMP PP has proposed Rs. 290 lakh as capital cost and Rs. 38 lakh/year for recurring expenses in the operation phase.
- iii. Under CER different activities the PP has proposed Rs, 30 Lakh.

PROPOSED CER BUDGET AND ACTIVITY			
SN	Plan	Area of Activity	Budgetary provisions (Rs in lacs)
1	Adaptation of Tiger	At Van Viah Bhopal	Rs 5 Lacs
2	Health awareness progarmme twice in year (Rs 50,000/-) for each village for one time	In 10 villages surrounding to Bhopal	Rs 10 Lacs
3	Adaptation of school with provision of furniture (50 table and chairs in each class room) , Fans at each rooms, Library, Up gradation of toilets (4 for girls and 04 for boys), Drinking water facility (RO)- 04 numbers), sport ground, and boundary wall	School of village dist Bhopal (MP)	Rs 25 Lacs
	Total		30 Lacs

- iv. 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 balance 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 reports.
- v. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

- vi. 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.

XI. Miscellaneous

- ii. 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.
- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. 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 8779/2021 M/s Janki Raman Developers, Shri Anupam Pandey, Partner, G-403, Rahul Apartment, Prem Nagar, Madan Mahal, Dist. Jabalpur, MP - 482002 Prior Environment Clearance for Construction of Proposed Commercial Complex "Janaki Raman Plaza" at Khasra No. 267/1/2, Zone - 5, Sanjay Gandhi Market, Dist. Jabalpur (MP), [Total Plot Area 8000 sq. mtrs.][Total Built-up Area 28,853.26 Sqm.] Cat.-8(a) Building Construction. M/s. Creative Enviro Services , Bhopal.

This is case of Prior Environment Clearance for Construction of Proposed Commercial Complex "Janaki Raman Plaza" at Khasra No. 267/1/2, at Zone - 5, Sanjay Gandhi Market, Dist. Jabalpur (MP) . [Total Plot Area = 8000 sq. Mtrs., [Total Built-Up Area = 28853.26 Sq. Mtrs] At Survey No 267/1/2 Zone-5, Sanjay Gandhi Market , Jabalpur (MP)

The case was presented by Env. Consultant Shri Umesh Mishra from M/s. Creative Enviro Services , Bhopal and representative of PP Shri Anupam Pandey , wherein PP submitted that in the proposed commercial complex there is no restaurant or food zone is

proposed . In the project area some trees are existing in the project area and uprooted proposed during construction. Following details of the project were provided:

Proposal for Environmental Clearance For Proposed Commercial Project (Janki Raman Plaza)	
Total Land Area	Total Land Area = 8000 sq. mtrs.
Total Built up Area	Total Proposed Built Up area (Slab Area Including all common passages, parking, podium etc.) = 28853.26 sq. mtrs.
Land Owner of the Project	Janki Raman Nyas through Sharadchand Bhai Pallan 2 Janki Raman Developers through Anupam Kumar Pandey
Promoters of the Project	Janki Raman Nyas through Sharadchand Bhai Pallan 2 Janki Raman Developers through Anupam Kumar Pandey
Location of Project	Survey No 267/1/2 Zone-5 Sanjay Gandhi Market, Jabalpur (MP)
Occupancy of land	Owned by PP
Geological Location	Latitude- 23.177838 N Longitude- 79.927547 E
Surrounding Features	(a) East - Kirana Wholesale Market (b) West - Vegetable Market (c) North – Open Space (d) South – Oil Market

Area abstract has been enclosed as Under			
Building	Area in Sqmt	Built Up Area Sq Mt	Ground Coverage Area Sq Mt
Residential Area	NIL	NIL	NIL
Commercial	8000	11939.63	2456.76
Total	8000	11939.63	2456.76
Statement of Areas		Development	
S No	Particular	Permissible	Proposed
1	Organized Open Area	800 sqm	801.05 sqm
2	Services Area	120 sqm	121.14 sqm

3	Maximum Far	-	-
4	Road & Circulation Area	18 mtrs	18 mtrs
5	Maximum Ground Coverage	40%	30.71%
6	M O S	N.A.	N.A.
	Maximum Distance between Two Blocks		
7	Maximum Height	24 mtrs	24 mtrs
8	Total Area of land	8000 sqm	8000 sqm
9	Total Built up area as per T & CP norms or MPBVR 2012	12000 sq m	12000 sqm
10	Total Built up area including built-up area of stair cases, balcony, basements and other services area which does not considered for calculation wrt T & CP & MPBVR 2012	28,853.06 sqm	

During presentation it was observed by the committee that some trees are in existence for which PP submitted that most of the tree are on the project boundary and will not be uprooted. However, 03 trees will be uprooted for which additional 30 trees will be planted. PP further submitted that 10 KW Solar powers is proposed in this project. Committee suggested that PP shall explore the possibility of providing zero water toilets in the project. Committee after presentation and deliberation asked PP to submit response on following issues such as:

1. Regarding information at column no 9.19 of form-1 wrt seismic aspects.
2. Revised water balance calculation.
3. Revised waste generation (organic & in-organic & other type) calculation.
4. Layout plan on A-3 map.
5. Copy of NOC wrt for water supply, fire fighting, waste disposal etc.
6. Copy of Conceptual Plan.
7. Disposal of Muck from the project
8. Tree inventory (species wise) and additional plantation proposal.
9. Revised green belt plan with number and species.
10. Revised EMP wrt revised green belt, ETP, STP and environmental monitoring aspects.
11. Revised CER include a proposal for adoption of any school of remote area and adoption of wild life in Kanha National park with consent of Field Director, Kanha National Park, MP.

PP vide letter dated 24.11.2021 has submitted the response on above quarries which was placed before the committee in the afternoon session. The query reply was discussed with PP and their consultant and the submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Construction of Proposed Commercial Complex "Janaki Raman Plaza" at Khasra No. 267/1/2, Zone - 5, Sanjay Gandhi Market, Dist. Jabalpur (MP), Total Plot Area 8000 sq. mtrs., Total Built-up Area 28,853.26 Sqm., Cat. 8(a) subject to the following special conditions:

I. Statutory Compliance

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. 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 concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

II. Air Quality Monitoring and preservation

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF & CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. Total Power Requirement for the proposed project is 2063 KVA.
- v. Diesel power generating sets proposed (Capacity – 160 KVA as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG Sets should be equal to the height needed for the combined capacity of all proposed DG sets. Low sulphur diesel shall be used on DG Sets. The location of the DG sets may be decided with in consultation with MP Pollution Control Board.
- vi. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking wills all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vii. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- viii. Wet jet shall be provided for grinding and stone cutting.
- ix. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- x. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- xi. The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality, the ventilation provisions as per National Building Code of India shall be provided.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable

- urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
 - iii. Total fresh water use shall not exceed 23 KLD, and treated water available for reuse will be 43 KLD.
 - iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be monitored and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring reports.
 - v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
 - vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
 - vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
 - viii. PP should explore the possibility of providing water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation.
 - ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
 - x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
 - xi. Rain water harvesting recharge pits 2 nos. shall be provided for ground water recharging as per the CGWB norms.
 - xii. All recharge should be limited to shallow aquifer.
 - xiii. No ground water shall be used during construction phase of the project.
 - xiv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering, if any.
 - xv. Sewage shall be treated in the STP (MBBR based Technology) 50 KLD with tertiary treatment. The treated effluent of 43 KLD from STP shall be recycled/re-used for flushing and gardening. The 5 KLD treated surplus water shall only be disposed in to municipal drain after having approval from the competent authority.

- xvi. No sewage or untreated effluent water would be discharged through storm water drains.
- xvii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problems from STP.
- xviii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- iv. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- v. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- vi. Acoustic enclosures for DG sets (Capacity– 160 KVA), noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures.

- vi. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- vii. Outdoor and common area lighting shall be LED.
- viii. Energy conservation measures like installation of LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- ix. Solar, wind or other Renewable Energy shall be installed in meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-law's requirement, whichever is higher.
- x. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power.

VI. Waste Management

- i. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- ii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (499.2 KGD) shall be segregated into wet garbage and inert materials.
- iii. E-waste (140 Kg/Year) should properly dispose of through authorized vendors.
- iv. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- v. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the MP Pollution Control Board.
- vi. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.
- vii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- viii. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- ix. Used CFLs, TFLs and other e-waste should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid contamination.

VII. Green Cover

- vii. Not tree can be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- viii. 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 plantation scheme minimum of 500 no's of trees to be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

- ix. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- x. The 850 sq. meters (12%) of total area shall be provided for green belt development with 380 no. as per the details provided in the project document.
- xi. Additional Plantation of 30 trees shall be provided as existing 03 trees shall be uprooted
- xii. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
- xiii. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stock piled appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.

VIII Transport

- iv. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- v. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- vi. Parking's for 380 Nos. as proposed by PP over area of 8605 sq mtrs (Basement: 3850 sq.m, Stilt : 3750 sq.m + Open 975 sq mtrs)
- vii. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human health issues

- vii. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- viii. For indoor air quality the ventilation, provisions as per National Building Code of India shall be provided.
- ix. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- x. Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xi. Occupational health surveillance of the workers shall be done on a regular basis.
- xii. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. EMP & Corporation Environment Responsibility

- vii. 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.
- viii. In the EMP PP has proposed Rs. 154.0 lakh as capital cost and Rs. 45.0 lakh/year for recurring expenses in the operation phase.
- ix. Under CER different activities the PP proposed Rs, 50 Lakh for following activities .

PROPOSED CER BUDGET AND ACTIVITY			
SN	Plan	Area of Activity	Budgetary provisions (Rs in lacs)
1	Fudn for medical/rescue facilitation for wild life animal at National Park	At Kanha National Park.MP	Rs 5 Lacs
2	<ul style="list-style-type: none"> • Adaptation of school with provision of furniture (50 table and chairs in each 14 class room) Fans at each 14 rooms, and Prayer Hall, at Staff room Library, • Up gradation of toilets (4 for girls and 04 for boys), • Drinking water facility (RO)- 04 	Govt middle school at Gosalpur dist Jabalpur (MP)	Rs 25 Lacs

	<ul style="list-style-type: none"> numbers), • Sport Ground, • Boundary Wall • Two additional Rooms 		
3	<ul style="list-style-type: none"> • Provision of essential facility at 02 Aganwadi with provision of • One additional Hall at each aganwadi • One dining space at each aganwadi • One drinking water facility with RO system at each aganwadi • One TV Sets for children at each aganwadi • Provision of essential furniture's , sitting facilitation, gaming facility at each aganwadi 	At Devri and Gosalpur dist Jabalpur (MP)	20 Lacs (10 Lacs Each)
	Total		30 Lacs

- x. 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 balance 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 reports.
- xi. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- xii. 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.

XI. Miscellaneous

- i. 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.

- ii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iii. 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 8762/2021 Shri Shivashish Banerjee, Shastri Colony, Venkat Ward, Dist.- Katni, MP - 483501 Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (8458 cum per annum) (Khasra No. 1189 Part), Village - Karhiya, Tehsil - Rithi, Dist. Katni (MP) RQP Swati Namdeo

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 1189 Part), Village - Karhiya, Tehsil - Rithi, Dist. Katni (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Swati Namdeo on behalf of PP. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office letter No. 4735 dated 07/9/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. PP further submitted that since it is a Murrum Quarry where no drilling & blasting is proposed. Mining shall be done through Opencast Semi Mechanized Method. As per Google image based on online KML file uploaded by PP, around 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Water body /Earthen dam	170	West	Provision of Garland drain & settling tanks.
Human settlement	155 & 200	North & South	Three rows of plantation.
Pucca Road	70	East	Three rows of Plantation towards road side.

After presentation committee asked PP to submit response on following issues including irrelevant/misleading information provided in From-II, such as:

- Revised from-II with necessary corrections.
- Revised Plantation scheme as suggested by committee.
- Revised CER- Propose proposal of room with shed construction with electrical fittings in the school as suggested by committee during presentation.

PP has submitted the response of above quarries same date vide letter dated 24.11.2021, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found 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 8458 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.40 Lakh as capital and Rs. 01.08 Lakh/year.
3. As proposed, a minimum of 2400 trees shall be planted as per the submitted plantation scheme and under CSR Rs. 0.50 Lakh/years is proposed.

5. Case No 8770/2021 M/s Kiara Infra, Shri Anees Khan, Partner, House no. 517, E-7, Arera Colony, Dist. Bhopal, MP - 462016 Prior Environment Clearance for Murrum Quarry in an area of 1.0 ha. (11760 Cum per annum) (Khasra No. 03), Village - Barkheda Bondar, Tehsil - Huzur, Dist. Bhopal (MP) RQP Swati Namdeo

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 03), Village - Barkheda Bondar, Tehsil - Huzur, Dist. Bhopal (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Swati Namdeo on behalf of PP. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekle Praman-patra) letter No. 2753 dated 16/9/2021 has reported that there are 07 more mines operating or proposed within 500 meters around the said mine with total area of 21.37 ha., including this mine.

It was observed by committee that this is case of B-1 category as it was observed by Committee that as per mentioned Collector Office (Ekle Praman-patra) letter has reported that there are 07 more homogeneous mines are operating or proposed within 500 meters with total area of 20.37. Around 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Kachha Road	14	South	Protection plan with three rows of Plantation towards road side.
Human settlement	520	North- West	Three rows of plantation.

Further, during presentation PP submitted this is case of Murrum other mines existing within 500 m are crusher stone and crusher stone & Murrum are not homogeneous so consider their case under B-2 category. Committee after discussion and deliberation recommends that in this context PP shall submit M.O. clarification then for further appraisal of this case.

6. Case No 8771/2021 Shri Nitin Dubey, 12/2, Agrasen Chouraha, Imamigate, Dist. Bhopal, MP Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (9300 Cum per annum) (Khasra No. 247, 248), Village - Sohagpur, Tehsil - Kolar, Dist. Bhopal (MP) RQP Swati Namdeo

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 247, 248), Village - Sohagpur, Tehsil - Kolar, Dist. Bhopal (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Swati Namdeo on behalf of PP. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekle Praman-patra) letter No. 2703 dated 08/9/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. PP further submitted that since it is a Murrum Quarry where no drilling & blasting is proposed. Mining shall be done through Opencast Semi Mechanized Method. During presentation as per Google image based on coordinates provided by PP, it was observed that old pit is existed, PP submitted that this is a image of rainy season and there is depression thus water is accumulated. Being lease is adjacent

to nallah hence 50 m setbacks are proposed as non-mining area. PP further submitted that leaving this area as non mining area no tree uprooting will be done. Around 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Road	120	North	Protection plan with three rows of Plantation towards road side.
Kaliasot River	525	North-East	Provision of garland drain and settling tanks.

After presentation the committee asked to submit following details:

- Revised map showing 50 meters setback due to natural drain on south side.
- Tree inventory and commitment that no tree uprooting is proposed.
- Revised Plantation scheme as suggested by committee.
- Revised CER- Propose proposal for computer and printer distribution in the school as suggested by committee during presentation.

PP has submitted the response of above quarries same date vide letter dated 24.11.2021, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found 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 9,300 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.62 Lakh as capital and Rs. 01.13 Lakh/year.
3. As proposed, a minimum of 2400 trees shall be planted as per the submitted plantation scheme and under CSR Rs. 0.50 Lakh/years is proposed.

7. Case No 8773/2021 M/s Pankaj Minerals, Shri Pankaj Kothari, Partner, House No. 517, E-7, Arera Colony, Dist. Bhopal, MP - 462016 Prior Environment Clearance for Murrum Quarry in an area of 1.0 ha. (6330 Cum per annum) (Khasra No. 02), Village - Barkheda Bondar, Tehsil - Huzur, Dist. Bhopal (MP)

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 02), Village - Barkheda Bondar, Tehsil - Huzur,

Dist. Bhopal (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Swati Namdeo on behalf of PP. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekle Praman-patra) letter No. 2753 dated 13/9/2021 has reported that there are 07 more mines operating or proposed within 500 meters around the said mine with total area of 21.37 ha., including this mine. Around 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Kachha Road	100	South	Protection plan with three rows of Plantation towards road side.
Human settlement	500	North- West	Three rows of plantation.

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rather, during presentation PP submitted this is case of Murrum other mines existing within 500 m are crusher stone and crusher stone & Murrum are not homogeneous so consider their case under B-2 category. Committee after discussion and deliberation recommends that in this context PP shall submit M.O. clarification then for further appraisal of this case.

8. Case No 8781/2021 M/s Mahamaya Stone Crusher, Village - Nakwar, PO - Biradei, Tehsil - Hanumanan, Dist. Rewa, MP - 486001 Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (31136 Cum per annum) (Khasra No. 135P), Village - Nakwar, Tehsil - Hanumana, Dist. Rewa (MP)

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 135P), Village - Nakwar, Tehsil - Hanumana, Dist. Rewa (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Swati Namdeo on behalf of PP. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by

Committee that as per Collector Office (Ekle Praman-patra) letter No. 593 dated 16/9/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. As per Google image based on online KML file uploaded by PP, around 500 meters following sensitive features were observed of the lease area:

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
06 Tree	Within lease	-	Tree management Plan
Kachha Road	30	West	Protection plan with three rows of Plantation towards road side.
Natural drain	65	West	--
Pucca Road	120	South	--
Human settlement	125	South -West	75 m setback & Protection plan & muffle blasting with arrangements of sand bags and three rows of plantation.
Isolated hutments	-	E-SE	

During presentation it was observed by the committee that on the SW side of the lease habitation is in existence at a distance of 125 meters approx and thus 75 meters setback is to be left and also 06 trees are in existence within the lease. PP submitted that they have worked out the revised plan and after leaving 75 meters setback targeted production will be achieved but life of the mine will be for 07 years only as approx. 5200 sq. meter area will be available for mining. PP further submitted that out of 06 trees 03 will be uprooted and they will plant additional 30 trees. After presentation the committee asked to submit following details:

- Revised year wise section plan & revised surface map with setback of 75 m wrt to habitation.
- 06 Trees exist within lease area hence their management Plan.
- Revised Plantation scheme as suggested by committee.

PP has submitted that out of 06 trees 03 trees are proposed for felling and additionally 30 trees shall be planted. The life of mine shall be for 07 years as per the plan submitted by PP. PP has submitted the response of above quarries same date vide letter dated 24.11.2021, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found 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 31,136 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs.13.13 Lakh as capital and Rs. 01.31 Lakh/year.
3. As proposed, a minimum of $2400+30 = 2430$ trees shall be planted as per the submitted plantation scheme and under CSR Rs. 01.0 Lakh/years is proposed.

9. Case No 8768/2021 Smt. Meena Patel W/o Shri Kuldeep Patel, Plot No. B/18, Kasodhan Nagar, Madhotal, Opp. Society Garden, Dist. Jabalpur, MP - 482002 Amendment in Prior Environment Clearance for Murrum Quarry in an area of 2.20 ha. (11400 Cum per annum) (Khasra No. 184 Part), Village - Aithakhera, Tehsil - Jabalpur, Dist. Jabalpur (MP) (Prior EC was earlier issued by DEIAA Jabalpur vide letter no. 135 dated 08-11-2017 as Case No. 121/17. Shri Rakesh Choubey RQP.

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 135P), Village - Nakwar, Tehsil - Hanumana, Dist. Rewa (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Shri Rakesh Choubey RQP on behalf of PP. During presentation PP stated that this is a case of “EC Amendment” , as mineral Murrum is to be written in place of stone , the earlier EC was issued by DEIAA. vide no. 135 dated 08.11.2017 at Khasra no. 184 for 2.20 ha. for Stone , capacity 11,400 sqm and plantation target as per EMP. PP submitted chronology of the project:

- The Aithakhera Stone Quarry Lease was granted to Smt. Meena Patel, W/o Shri Kuldeep Patel by state govt. vide letter no. 630/khanij/Q.L./2013-14 Jabalpur dated 23/04/2014 over 2.20 hect. Mining Plan was approved by DGM Jabalpur vide letter no.1592/Khani/N.kr.-2013/2014 Jabalpur, dated 05/05/2014 covering period upto 29/03/2020.DEIAA EC issued for excavation of stone on 08/11/2017 . Granted area had meager presence of metal stone & abundance of Murrom observed by QL holder thereby lessee made an application for change of mineral in the QL area for which she made application on 01/07/2020 as a result Collector Jabalpur issued LOI for Murom vide letter no. 1164/Khanij/29 QL/2014 Jabalpur dated 09/07/2020. Mining plan for murrum approved by DGM Jabalpur vide letter no 2249/Khanij/nk1425/2020 Dated 21/09/2020 , after compilation of all documents application for amendment has been made in SEIAA .

Further, It was observed that as per MO vide letter dated 2323 dated 28.07.2021 stated that no mining is done since last 02 years. Previous lease was sanctioned for stone, however PP got the mineral amendment through competent authority and sanctioned issued vide no. 1164 dtd. 09.07.2021. Revised Mining Plan for Murrum is also approved vide letter 2249 dtd. 21.09.2021 for maximum production of 11,400 cum/year. After presentation PP was asked to submit MO certificate stating details of mines sanctioned/operating within 500 meters of this mine for further consideration of this case with status of compliance of plantation and CER activities wrt to target and achievements.

Discussion on Query Reply submitted by PP

10. Case No. – 6644/2019 Shri Manohar Lal Aanjana S/o Shri Ganga Ram Ji, R/o Village - Kesunda, Tehsil - Chotti Sadri, Dist. Pratapgarh, UP, Prior Environment Clearance for Stone (Crusher Gitti) Quarry in an area of 1.00 ha. (20,000 cum per annum) (Khasra No. 364, 311/2), Village - Chainpura, Tehsil - Neemuch, Dist. Neemuch, (MP). Env. Consultant Aseries Envirotek India Pvt. Ltd., Noida (U.P.)

This is case of Stone (Crusher Gitti) Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 364, 311/2), Village - Chainpura, Tehsil - Neemuch, Dist. Neemuch, (MP) 1.00 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. 576 dated: 16/07/19 has reported that there is 03 more mine operating or proposed within 500 meters around the said mine with total area of 9.00 ha., including this mine.

Earlier this case was scheduled for presentation and discussion in 410th SEAC dated 02/12/2019 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 06/9/21 which was forwarded through SEIAA vide letter no. 1859 dated 13/9/21 and the same was scheduled in the agenda.

The EIA was presented by Env. Consultant Shri Amar Singh Yadav from M/s. Aseries Envirotech India Pvt. Ltd. Noida, U.P. on behalf of PP in the 519th SEAC meeting

dated 12-10-21. During presentation, PP submitted following salient features of the project:-

Particular	Details	
Area & Lease period of mine	1.00 ha. & 10 year	
Cluster Situation (B1 or B2- please justify)	B1	
Toposheet no. & Khasra No.	364,311/2	
Total Geological Reserve	2,50,000 Cum	
Available Movable Reserve	1,85,500 Cum	
Production	20,000 Cum/year	
Expected Life of Mines	10 Years	
Method Of Mining	Open cast semi mechanized method & controlled drilling and blasting.	
Elevation Profile of mine site	470 mRL to 469mRL	
Height & width of bench	Bench height will be kept 3.0 m and width will kept more than height..	
General ground water table (post monsoon level)	30-35 mbgl	
Does ground water intersection proposed	No	
Man Power (Skilled & Un-skilled)	11	
Project Cost as per PFR	Rs. 30.0 Lakh	
Proposed EMP Cost (Rs in Lakhs)	Capital-Rs. 7,59,800	Recurring-Rs. 4,65,300
Any litigation pending (if yes, provide details)	No any	
Located in critically polluted area (yes/no)	No	

- The mining shall be done by adopting opencast semi-mechanized mining method.
- OB and ROM is proposed to be removed with the help of excavator and dumper.
- The mineral excavation is proposed to be done by excavator/JCB used and loading is done into tractors or tipper only.

- It is proposed bench height will be kept 3.0 m and width will be kept more than height.
- Blasting shall be only be carried out as per the approved mine plan.
- Before blasting all precautions like siren, guards with red flag etc. will be taken.

Since SEAC is appraising cases on the basis of documents and details uploaded online, thus all the mandatory information shall be precisely uploaded online for appraisal of case and to avoid unnecessary delay. After presentation committee asked PP to submit response on following issues and revised/updated information in From-II, such as:

1. Commitment letter from PP for water drawl as uploaded letter is unsigned.
2. In point no. 35 -11 as details of Final Mine Void , under - 11-b depth is only 09 m whereas in the EIA report page no. 36 RL as 468- 453 means 15 m pl. clarify it.
3. In point no. 35 -05 and details provided in the EIA report page no. 33& 34 are not matching pl. clarify it.
4. EIA page/34 figure 2.4 it is not legible
5. EIA page/63 why maximum PM10 value 76 is onsite when no mining is carried out please justify.
6. EIA page/247 when monitoring period is from Oct. 19 to Dec. 19 – how report from 02.12.19 to 01.03.20 are attached, please justify reasons.
7. Commitment for 2000 species plantation.
8. Revised plantation species as suggested by the committee (remove Katha, Amla and Katang bamboo & add species like Lathi Bans, Chirol, neem, Peepal, Bargad, Karanj, Deshi Aam and in the barrier zone propose Jangle Jalebi & Ber etc.
9. Revised CER based on the commitment made during public hearing and issues raised by the local villagers with targets and allocations.

PP uploaded online query vide dated 08/11/2021 reply on “Parivesh Portal” during presentation PP submitted that they made necessary corrections in the proposal/documents and submitted desired information.

- There are 2 other mines in cluster area due to cluster situation maximum PM10 value 76 is onsite.
- The actual depth is 15 meter according to Mining plan and Revised from 2.
- Submitted revised plantation scheme.

- Revised CER based on the commitment made during public hearing and issues raised by the local villagers with targets and allocations.

The EMP and other submissions made by the PP were found 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 as per approved mine plan with quantity not exceeding for Stone 20,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 07.29 Lakh as capital and Rs. 4.35 Lakh/year as recurring has proposed by PP.
3. As proposed, a minimum of 2000 trees shall be planted within three years in barrier zone, evacuation road, and village as per the submitted plantation scheme. Plantation in barrier zone shall be carried out in first year of mining.
4. Under CER following activities were submitted by PP:

1	providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to approx.4 mine workers.	8500.0
2	Distribution of Mask & Hand Sanitizer for Gram Panchayat, Matol	5000.0
3	15 Fruit bearing tree species will be planted in Chainpura village School	1500.0
4	Solar lights (02) in village school (to demonstrate use of alternate source of electricity)	5000.0
	Construct toilets facilities and drainage system in Chainpura grampanchayat	30000.0
	Maintain Chainpura village road.	10000.0
	Total	50,000.0

11. Case No 7259/2020 M/s. Modiram Ramlal, Partner Shri Neeraj Gupta, R/o 22/5, Katghar, District Allahabad (UP) Prior Environment Clearance for approval of Kotwa Khas Hadhai Hardauli Silica Sand Deposit in an area of 12.096 ha. (25,000 ton per annum) (Khasra No. 89,90,91,92,93,94,95,96,97,98,227,258 (Kotwa Khas), 1,2 (Hadahi), 1,2,3,4,5,6,425,435,436 (Hardauli)) at Village- Kotwa Khas Hadhai Hardauli Dabhaura, Tehsil- Jawa, District- Rewa (MP). EIA Consultant: M/s. Creative Enviro Services , Bhopal .

This is case of Silica Sand Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 89,90,91,92,93,94,95,96,97,98,227,258 (Kotwa Khas), 1,2 (Hadahi), 1,2,3,4,5,6,425,435,436 (Hardauli)) at Village- Kotwa

Khas Hadhai Hardauli Dabhaura, Tehsil- Jawa, District- Rewa (MP) 12.096 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. 4704 dated: 27/9/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

Earlier this case was scheduled for presentation and discussion in 444th SEAC dated 03/07/2020 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 26/7/21 which was forwarded through SEIAA vide letter no. 1568 dated 30/07/21 and the same was scheduled in the agenda.

The EIA was presented by the consultant Mr. Santosh, M/s. Creative Enviro Services, Bhopal and Ms. Swati Namdeo, RQP in the 509th SEAC meeting dated 24-08-21. During presentation, PP submitted that it's a Silica Sand mine with an area of 12.096 ha., PP submitted that as per additional TOR point given by SEAC committee they have considered submerged area as non mining area. PP further stated that the applied area has Silica Sand exposure on surface and depth wise open cast manual mining has been carried out during past mining. During the past mining about 210 sq. m. area has been excavated up to 03m bgl. From recovery point of view, average recovery of blocks in Silica sand formation is 70% of Silica Sand. Mineral is present 03m below the surface level, where it is not difficult to excavate the mineral from the surface. Hence adopting the opencast mining method is proposed for the excavation of silica sand. The mining shall be executed thorough manual operation Gaity, Fabda used for mining operation. Loading will be done in dumper and tractor mounted trolley by deploying man power. No blasting or drilling is proposed for subject proposal.

During presentation it was observed by the committee that part of sanctioned lease is in the seasonal river on the northern side and part of lease is on the southern side comprising of private and government land and during presentation it was difficult to identify which part of the lease is Govt. and which part is private. If mining is permitted on an area away from the seasonal river, does sufficient area is available for mining considering the safety of river banks. During presentation it was also observed by committee that in the EIA, PP

has not addressed the sensitivity issues given as additional TOR points and even the modeling details are missing in the EIA. Committee further observed that there are several mistakes in the form-II submitted by PP. Since SEAC is reviewing cases on the basis of documents and details uploaded online, thus all the mandatory information shall be precisely uploaded online for appraisal of case and to avoid unnecessary delay. After presentation committee asked PP to submit response on following issues and revised/updated information in Form-II, such as:

1. As per form-II point 8.1, Is it proposal for sand or silica sand and why project configuration/machinery details are not provided, Please justify.
2. As per form-II point 8.2, proposed production is mentioned as 5.5 TPD wherein in 8.1 capacity is mentioned as 25,000 TPA, Please justify.
3. As per form-II point 10, the project cost is mentioned as Rs. 1.0 Crore where as in the PFR it is 20.0 lakhs, Please justify.
4. As per form-II point 15, unit of water requirement shall be provided.
5. As per form-II point 17, details of MSW generation and disposal plan shall be provided.
6. As per form-II point 18.1, Justify GLC value of 0.8 for PM 2.5 and 1.00 for PM 10 wrt production volume. No modeling/data are given in the EIA thus please justifies the basis of these values.
7. As per form-II point 20, is entire lease is on Government land?
8. As per form-II point 29, why NO when part of lease is in the seasonal river?
9. As per form-II point 35 (08b), Why LOI is mentioned as NO.
10. As per form-II point 35 (10), Justify NO top soil.
11. As per form-II point 35 (13), As per statement in public hearing that mining will be carried out manually, why JCB is required, please justify.
12. As per form-II point 35 (b), please provide risk assessment as part of lease is in the seasonal river.
13. All the specific TOR points shall be addressed with proposed mitigation/proper safety measures such as for canal and habitations in surrounding area.
14. Initially, lease was allotted in the year 1980 thus please provide complete chronology of mining activities performed with year wise details and copy of CTO obtained from M.P. Pollution Control Board.
15. Since part of lease is in the river and lease is partly government and partly private thus:
 - b. Please submit a map showing khasrawise lease details of government land and private land. (Map-A)

- c. Show on above map which part of lease is in river and which part of lease is outside of river considering HFL. (HFL of river shall be obtained from an authentic source) (Map-B)
 - d. Submit revised production map on (Map-B) for area outside of lease leaving adequate safety barrier for bank and considering HFL of seasonal river.
16. Revised EMP as suggested by committee by adding budgetary allocations such as for fencing, grazing land, perpetual maintenance of plantation.
17. Under CER scheme with physical targets:
- ✓ Proposal for CER activities based upon commitment made during public hearing and COVID-19 pandemic.
 - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in concerned village shall be proposed.
 - ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to them who are residing in the nearby villages, shall be considered.
 - ✓ PP's commitment that activities proposed in the CER scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.
18. Under Plantation Scheme with budgetary allocations:
- ✓ Comprehensive green belt plan as suggested by committee with commitment that entire plantation shall be carried out in the initial three years and will be maintained thereafter with causality replacement. Proposal for distribution of fruit bearing species for nearby villagers shall also be incorporated in the plantation scheme and for which a primary survey for need assessment in concerned village shall be carried out.
 - ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
 - ✓ Commitment that high density plantation (preferably using "Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by CCF, Social Forestry Circle, Rewa or any other competent agencies.

- ✓ Commitment that local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose through Gram Panchayat on suitable community land in the concerned village area and handed over to Gram Panchayat after lease period.
- ✓ Proposal for plantation in adjoining forest land through concerned DFO.

PP vide their letter dated 18/10/2021 uploaded online query reply and hard copy as well as on “Parivesh Portal”. PP showed form II revised details with following map viz.

- Khasra-wise lease details of government land and private land.
- Map showing which part of lease is in river and which part of lease is outside of river considering HFL. (HFL of river shall be obtained from an authentic source).
- Revised EMP as suggested by committee by adding budgetary allocations such as for fencing, grazing land, perpetual maintenance of plantation.
- Revised EMP as suggested by committee by adding budgetary allocations such as for fencing, grazing land, perpetual maintenance of plantation.
- Proposal for CER activities based upon commitment made during public hearing and COVID-19 pandemic etc.

In the 524th SEAC meeting dated 29-10-21 query presentation was presented by the Env. Consultant, wherein after presentation committee asked PP to submit response on following information such as:

1. Revised plantation scheme as suggested by committee.
2. Commitment that no mining shall be carried out in the river bed.
3. Revised plan showing minimum 25 meters setback from the HFL of the river bed and justification of area with proposed production.
4. Revised plantation species as suggested by committee and seed sowing in the barrier zone.

PP uploaded online query vide dated 15/11/2021 reply on “Parivesh Portal” during presentation PP submitted that they made necessary corrections in the proposal/documents and submitted desired information as follows:

- Revised plantation scheme.
- Revised plan showing minimum 25 meters setback from the HFL of the river bed and justification of area with proposed production.

The query presentation was made by the Env. Consultant & PP who submitted that no mining will be carried out in river bed and 25 m setback is left from the river bank in the proposed mining area (as per revised plan submitted by PP). PP has also submitted by revised plantation scheme. As per revised plan, production of 25,000 tone/annum will be achieved from the demarcated 2.00 ha area. The EMP and other submissions made by the PP were found satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production of Silica Sand quantity not exceeding 25,000 Tone/annum.
2. No mining from river is permitted and 25 meters setback is to be left from the river bank.
3. A budgetary provision for Environmental management Plan of Rs. 25.75 Lakh as capital and Rs. 12.92 Lakh/year as recurring has proposed by PP.
4. As proposed, a minimum of 5800 nos. of trees shall be planted as per the submitted plantation scheme.
5. Under CER following activities were submitted by PP:

Village	OTHER CER ACTIVITIES RECOMMENDED BY SEAC COMMITTEE FOR SOCIAL WELFARE:	Amount to be spent
Village- Kotwa, Khas, Hadhai, Hardauli.	Distribution of 1000 fruit bearing Sapling namely (Mango, Jamun, Guava, Sitafal etc.) to the villagers of Village Kotwa, Khas, Hadhai, Hardauli. @200 Rupees	2,00,000 rps /-
	Providing 1 Solar system in Govt. Middle School .	22,200 rps /-
	Awareness camps for Oral Hygiene, Diabetes and Blood Pressure , cattle's health checkup.-Twice in a year	8,000 rps /-
	Providing 5 solar cookers to Labours who are residing in the nearby villages, which results no fuel wood will be used as a source of energy by mineworkers. @ 3500 Rps /unit. (No. of Beneficiaries -05)	17,500 rps-
	Total	2.47

12. Case No. - 5808/2018 Shri Vidya Prakash Shrivastava, Proprietor, Indira Nagar, Dist. Rewa, MP Prior Environment Clearance for Laterite Quarry in an area of 10.433 Ha. (1,27,160 ton per annum) (Khasra No. 34) at Village- Dongariha, Tehsil - Simaria, Dist. Rewa (MP). EIA Consultant: M/s Central Institute of Mining and Fuel Research, Dhanbad.

This is case of Laterite Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 34) at Village- Dongariha, Tehsil - Simaria, Dist. Rewa (MP) 10.433 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, District Survey Report, information of the leases within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office vide letter no. 9797 dated: 22/10/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier this case was scheduled for presentation and discussion in 426nd SEAC dated 27/02/2020 wherein ToR was recommended. PP has submitted the EIA report vide letter dated 26/7/21 which was forwarded through SEIAA vide letter no. 1615 dated 10/08/21 and the same was scheduled in the agenda.

The case was scheduled in 510th meeting dated 25/08/2021 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.

The EIA was presented by the Env. Consultant Dr. Mrinal Chakraborty from M/s. Central Institute for Mining and Fuel Research (CIMFR), Dhanbad and Mr. R. K. Choubey on behalf of PP in the SEAC 514th Meeting dated 21-09-21. During presentation PP submitted that this is a case Laterite Quarry where no drilling & blasting is proposed. Mining shall be done through Opencast Semi Mechanized Method. The lease area is having one mound having rolling topography in all direction. Central portion of the lease area is a part of mound top where as remaining portion of the area is part of mound slope. Highest elevation of the lease area is 336 m. in central part where as lowest elevation of the lease area is 324 m. towards South and North direction. Difference between highest and lowest elevation is 36 m.

Rainy water follows natural slope direction. There 01 pit is existing in the area having Laterite formation. The depth of pit is varying from 2 to 5 m. The area experiences sub-tropical climatic conditions. Proposed mining will be carried out by opencast

mechanized means using excavator/loader &, dumper combination at locations shown year wise plans and sections. Results of prospecting during past, exploratory work carried out and mineralization with safety measured from different aspects with Topography also brought into consideration for delineation of mineralization & choosing working block. Mining will be carried out by developing systematic, regular and separate benches mineral to achieve desired production. Haulage roads 6m wide will be laid at maximum 1: 16 gradient from surface (stack yard) to pit bottom at 325mrl within by roads to faces of individual benches. Uniform one bench of 5m high will be developed (however sub benching will be done to facilitate jackhammer drilling if hard portion encountered during mining (for heaving purpose only). Separate sub benches will be maintained in different grades of minerals to facilitate blending. Width of benches will be as per DGMS requirements / not less than height where as mineral bench length will be as per production requirements.

During appraisal of case, it was observed by the committee that as per Google image based on coordinates provided by PP, human settlement is in existence the south & south –east direction of the lease and hence wrt. NGT order dated 21.07.2020, area where blasting is not proposed, minimum distance of 100 m is to be maintained from the residential house /settlement as non mining area. PP submitted that south area of the lease shall be left as non- mining area and as suggested by the committee here plantation of 12,000 trees and grazing lands will be developed. Moreover right to access shall be provided the villagers in the south side and north side passing within lease.

Committee further observed that there are several mistakes in the form-II submitted by PP. Since SEAC is appraising cases on the basis of documents and details uploaded online, thus all the mandatory information shall be precisely uploaded online for appraisal of case and to avoid unnecessary delay. After presentation committee asked PP to submit response on following issues and revised/updated information in Form-II, such as:

1. In point no.14.1- a. Base line data shown as 1.11.20 to 21.01.21 but enclosed report are of 02.02.21. Justify?
2. In point no.14.1- d. Justify maximum and minimum value of value of PM 2.5 & PM10 .
3. In point no.14.6- Ground water table is shown as 12.0 m to 10.48m please confirm.
4. In point no.15-0 Copy of application submitted GW withdrawal.
5. In point no. 17- provides relevant information for solid waste generation/management.
6. In point no.32- no green belt plan attached.

7. In point no. 35 -10 . No top soil information provided, please justify.
8. Like that in point no. such as 16, 16.1, , 27, 35-3, 35-8, 35-9, 35-10, 35-13 etc., provided details are inadequate, please submit revise information.
9. Why life of mine is not calculated in EIA (Page/24).
10. Revise surface map showing non mining area as suggested by committee considering NGT order dated 21.07.2020 due to habitations and road.
11. Commitment that no blasting will be carried out.
12. Provide complete details of air quality modeling as suggested during presentation.
13. Under CER scheme with physical targets:
 - ✓ Activities such as solar panels & white wash in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) in concerned village shall be proposed.
 - ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under “Ujjwala Yojna” to them who are residing in the nearby villages, shall be considered.
 - ✓ PP’s commitment that activities proposed in the CER scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained by them.
14. Under Plantation Scheme with budgetary allocations:
 - ✓ Comprehensive green belt plan as suggested by committee by adding native species with commitment that entire plantation shall be carried out in the initial three years and will be maintained thereafter with causality replacement. Proposal for distribution of fruit bearing species for nearby villagers (such as Nimbu, Guawa, Sitaphal etc) shall also be incorporated in the plantation scheme and for which a primary survey for need assessment in concerned village shall be carried out.
 - ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
 - ✓ Commitment that high density plantation (preferably using “Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by concerned CCF, Social Forestry Circle or concerned DFO or any other competent agencies.

- ✓ Commitment that local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on the area left as non mining area which can be used by the nearby villagers.
- ✓ Explore the possibility for plantation in adjoining forest land in consultation with concerned DFO.

PP uploaded online query vide dated 18/11/2021 reply on “Parivesh Portal” during presentation PP submitted that they made necessary corrections in the proposal/documents and submitted desired information and during presentation submitted revised surface map . The EMP and other submissions made by the PP were found 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 as per approved mine plan with quantity not exceeding for Laterite 1,27,160 ton per annum.
2. A budgetary provision for Environmental management Plan of Rs. 29.16 Lakh as capital and Rs. 7.71 Lakh/year as recurring has proposed by PP.
3. As proposed, a minimum of 7500 trees shall be planted within three years as per the submitted plantation scheme. However, in barrier zone plantation shall be carried out in the first year.
4. Under CER following activities proposed by PP:

S. No.	CER Activity	Proposed Budget Per Year (in Rs.)
1.	White wash in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, Total Health Checkup camps in Mines and Nearby Villages to be organised quarterly.	2,00,000
2.	Plantation in government buildings with consent of the Block Officer & Sarpanch etc.	25,000
Total		2,25,000
Labour Welfare Amenities for workers		
1.	Rest Shelter	50,000
2.	Drinking Water	20,000

3.	Medical facility for labours	40,000
4.	Financial ads for education of labour's children	20,000
Total		1,30,000

13. Case No 8518/2021 Shri Mahesh Patidar S/o Shri Kailash Patidar, H.No. 06, Block Ekta, Chinar Fortune City, Hoshangabad Road, Dist. Bhopal, MP - 462047 Prior Environment Clearance for Stone Quarry in an area of 4.0 ha. (3325 cum per annum) (Khasra No. 151, 152), Village - Rajeev Nagar, Tehsil - Huzur, Dist. Bhopal (MP).

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 151, 152), Village - Rajeev Nagar, Tehsil - Huzur, Dist. Bhopal (MP) 4.0 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 (Ekal Praman-Patr) letter no. 1162 dated 22/3/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was recommended for EC in 516th SEAC meeting dated 23/09/21. SEIAA vide letter no. 2432 dated 08/11/21 sent back the file to SEAC for reappraisal and thus the case was scheduled in agenda 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.

14. Case No. - 5584/2017 Aulliya Medium Irrigation Project at Village Roshani/Aulliya, Distt. - Khandwa, (M.P.) 5584/2017 Executive Engineer, Water Resources Department, Water Resources Division, Khandwa, (M.P.) Prior Environment Clearance for Aulliya Medium Irrigation Project at Village Roshani/Aulliya, Distt. - Khandwa, (M.P.) CCA – 5000 ha.Cat. 1(c) River Valley Projects.

Vide SEIAA letter no. 1698 dated 18.08.2021 requested SEAC to carried out site visit to ascertain whether Aulliya Medium Irrigation Project at Village Roshani/Aulliya,

Distt. - Khandwa, (M.P.) falls under violation or not as per EIA notification 2006. SEIAA also quoted and enclosed notice issued from Hon'ble High Court, Jabalpur by Writ Petition WP/6240/2021. The petition was made by Shri Sukhlal S/o Tumla & Others. Petitioners have objected regarding the illegal construction of Aulliya Medium Irrigation Project at Village Roshani/Aulliya, Distt. - Khandwa, (M.P.).

The above case file was placed before the committee for discussion. During scrutiny of case file it was observed by the committee that TOR was recommended in 297th SEAC meeting dated 08-11-17 which was subsequently approved by SEIAA in their 456th meeting dated 16-11-17. However, so far PP has not submitted the EIA report and as per issued TOR letter no 544 dated 13/12/17, TOR will expire on 07/11/21 but its validity can be extended for one year. Committee further observed that a WP (No. 6240/2021) has been filled by the petitioners wherein SEIAA, WRD and Land Acquisition Officer have been made respondents. On perusal of petition in the "Relief Prayed For", it is observed that mainly two issues are raised by the petitioners i.e. illegal construction of dam and issues related to R&R from respondents no. 02 & 03.

Committee deliberated on the issue and recommends that being rainy season the dam site may not be approachable and thus on the basis of issues mentioned in WP, SEIAA initially shall obtain factual status about the dam construction without environmental clearance (as reported by the petitioners in WP No. 6240/2021) from E.E., Water Resource Division, Khandwa (PP) & Chief Engineer, Narmada Tapti Basin, WRD, Indore as they also have filed reply in this case as respondent no.02. Secondly, for site verification (if required after obtaining status report as above), visit shall be carried out by a joint team comprising of following expert members:

1. Representative from Ministry of Environment, Forest and climate Change, Regional Office, Bhopal.
2. Representative from Central Pollution Control Board, Zonal Office, Bhopal.
3. Expert Member from SEIAA.
4. Expert Member from SEAC.
5. Representative from District Administration Department.
6. Representative from office of the Executive Engineer Water Resources Department, Water Resources Division, Khandwa, M.P., as Co-ordinator.

Committee decided that as submitted above case file may be sent to SEIAA for kind consideration of submission made above and to take necessary action.

The case was discussed in SEIAA in their 689th Meeting dated 21/10/21 wherein it is recorded that Representative of PP was present during the meeting and informed that a team of Senior Officials of the WRD Department will visit to get a factual report of the

Project Site & submit the same in SEIAA. Hence, it is decided after monsoon period a team of expert members of the SEAC may also visit the site by coordinating with WRD officials and assess factual status of the site, so that authority can take decision accordingly.

The case was scheduled in the today's agenda wherein PP remains absent. Committee observed that as per the minutes of SEIAA, senior Officials of the WRD Department have been instructed to visit the site and submit a factual report of the Project site however, till date no such report is received. Committee after deliberation recommends that Senior Officials of the WRD Department shall visit the site as early as possible and submit the factual report about the project site and present the same before SEIAA and SEAC.

15. CORRIGENDUM

Due to typographical error, in the minutes of previous SEAC meeting no 517th dated 07.10.2021 submitted to SEIAA in Case No. 8564/2021, 8572/2021, 8631/2021, 8637/2021, 8647/2021, 7522/2020, EC is recommended as "EC for expansion" while all these cases are for grant of EC. This typographical error needs correction and now "EC for expansion" shall be read as "recommend the case for grant of prior EC".

(A. A. Mishra)
Member Secretary

(Dr. Praveen Chandra Dubey)
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. The regulations of danger zone (500 meters) prescribed by Directorate General of Mines safety shall also be complied compulsorily and necessary measures should be taken to minimize the impact on environment.
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. Arrangements for overhead sprinklers with solar pumps / water tankers 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 04 meters high wind breaking wall of suitable material to avoid fugitive emissions. During installation and operations of crushers, CPCB guidelines "Comprehensive Industry Document Stone Crushers", shall also be followed and complied.
8. Working height of the loading machines shall be compatible with bench configuration.
9. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
10. The OB shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
11. 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.
12. 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.
13. A separate bank account should be maintained for all the expenses made in the EMP and CER 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.
14. 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.
15. 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.
16. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
17. 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. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
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. 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.
24. 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.
25. 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, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
26. The project proponent shall follow the mitigation measures provided in MoEF&CCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
27. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
28. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
29. A display board with following details of the project is mandatory at the entry to the mine.
 - a. Lease owner's Name, Contact details etc.
 - b. Mining Lease area of the project (in ha.)
 - c. Production capacity of the project.
30. Dense plantation/ wood lot shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) or concerned DFO or any other suitable agency and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
31. Entire plantation proposed in barrier zone of lease area shall be carried out in the first year itself as per submitted plantation scheme and along the fencing seed sowing of locally available seeds such as Neem, Castor, Babool, Chiroil etc shall also be carried out.
32. 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 should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life 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. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
33. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.
34. During initial three years before onset of monsoon season, minimum 100 saplings or maximum as per submitted plantation scheme and subsequently approved by the SEAC of fodder / native fruit bearing species shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh "ANKUR YOJNA" by registering individual villagers on "Vayudoot app". Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Aganwadi premises.
35. Activates proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.

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. Arrangements for overhead sprinklers with solar pumps / water tankers 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. Only registered vehicles/tractor trolleys with GPS 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.
5. 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.
6. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
7. Sand and gravel shall not be extracted up to a distance of 1 kilometer (1Km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
8. Mining depth should be restricted to 3 meters or water level, whichever is less and distance from the bank should be 1/4th or river width and should not be less than 7.5 meters. No in-stream mining is allowed. Established water conveyance channels should not be relocated, straightened, or modified.
9. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
10. PP shall carry out independent environmental audit atleast once in a year by reputed third party entity and report of such audit be placed on public domain.
11. No Mining shall be carried out during Monsoon season.
12. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 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.
13. 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.
14. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
15. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
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. All these facilities such as rest shelters, site office etc. Shall be removed from site after the expiry of the lease period.
18. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020 and these details should be provided in Annual Environmental Statement.
19. 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.
20. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

21. 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.
22. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
23. 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.
24. 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.
25. 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.
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. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
28. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
29. A display board with following details of the project is mandatory at the entry to the mine.
 - a. Lease owner's Name, Contact details etc.
 - b. Mining Lease area of the project (in ha.)
 - c. Production capacity of the project.
30. Following conditions must be implemented by PP in case of sand mining as per NGT (CZ) order dated 19/10/2020 in OA NO. 66/2020 and SEIAA's instruction vide letter No. 5084 dated 09/12/2020.
 - i. The Licensee must use minimum number of poclains and it should not be more than two in the project site.
 - ii. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
 - iii. The ultimate working depth shall be 01 m from the present natural river bed level and the thickness of the sand available shall be more than 03 m the proposed quarry site.
 - iv. The sand quarrying shall not be carried out blow the ground water table under any circumstances. In case, the ground water table occurs within the permitted depth at 01 meter, quarrying operation shall be stopped immediately.
 - v. The sand mining should not disturb in any way the turbidity, velocity and flow pattern of the river water.
 - vi. The mining activity shall be monitored by the Taluk level Force once in a month by conducting physical verification.
 - vii. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry. The roads/pathways shall be leveled to let the river resume its normal course without any artificial obstruction to the extent possible.
 - viii. The mined out pits to be backfilled where warranted and area should be suitable landscaped to prevent environmental degradation.
 - ix. PP shall adhere to the norms regarding extent and depth of quarry as per approved mining plan. The boundary of the quarry shall be properly demarcated by PP.
31. Species such as Khus Slips and Nagar Motha shall be planted on the river banks for bank stabilization and to check soil erosion while on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
32. 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 should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life 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. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
33. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.
 34. During initial three years before onset of monsoon season, minimum 100 saplings or maximum as per submitted plantation scheme and subsequently approved by the SEAC of fodder / native fruit bearing species shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh “ANKUR YOJNA” by registering individual villagers on “Vayudoot app”. Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Aganwadi premises.
 35. Activates proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.

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. Arrangements for overhead sprinklers with solar pumps / water tankers 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.
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 CER 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, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
24. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
25. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
26. A display board with following details of the project is mandatory at the entry to the mine.
 - a. Lease owner's Name, Contact details etc.
 - b. Mining Lease area of the project (in ha.)
 - c. Production capacity of the project.
27. Species such as Khus Slips and Nagar Motha shall be planted on the nearby river banks for bank stabilization and to check soil erosion while dense plantation/ wood lot shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
28. Dense plantation/ wood lot shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) or concerned DFO or any other suitable agency and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
29. Entire plantation proposed in barrier zone of lease area shall be carried out in the first year itself as per submitted plantation scheme and. Sowing of seeds (such as Neem, Castor, Babool, Prosopis, Chirol/ locally available species etc) along the lease boundary fencing (trench size shall be 45cm depth x45 cm width) shall be carried out and excavated soil shall be placed between trench and fencing. Sowing of seeds shall be on the excavated soil.
30. 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 should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life 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. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
31. 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 should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life 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. Plantation in adjoining forest land shall be carried out through concerned DFO and commensurate budget shall be transferred for plantation to DFO.
32. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.

33. During initial three years before onset of monsoon season, minimum 100 saplings or maximum as per submitted plantation scheme and subsequently approved by the SEAC of fodder / native fruit bearing species shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh “ANKUR YOJNA” by registering individual villagers on “Vayudoot app”. Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Aganwadi premises.
34. Activates proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.

Annexure- ‘D’

General conditions applicable for the granting of TOR

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. 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. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Cumulative impact of air, noise & traffic shall be incorporated in final EIA Report.
6. An inventory of flora & fauna based on actual ground survey shall be presented.
7. Risk factors with their management plan should be discussed in the EIA report.
8. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
9. The EIA document shall be printed on both sides, as far as possible.
10. All documents should be properly indexed, page numbered.
11. Period/date of data collection should be clearly indicated.
12. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
13. 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.
14. 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.
15. Grant of TOR does not mean grant of EC.
16. 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.
17. 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.
18. 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.
19. All the necessary NOC's duly verified by the competent authority should be annexed.
20. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
21. The EIA report should clearly mention activity wise EMP and CER 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 CER cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
22. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
23. 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.
24. 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.

25. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
26. 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.
27. 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. Additionally in one soil sample, pesticides shall also be analyzed.
28. A separate budget in EMP & CER shall be maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
29. 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.
30. The project proponent shall provide the mitigation measures as per MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area" with EIA report.
31. LPG gas shall be provided for camping labour under "Ujjwala Yojna".
32. In the project where ground water is proposed as water source, the project proponent shall apply to the competent authority such as Central Ground Water Authority (CGWA) as the case may be for obtaining, No Objection Certificate (NOC).
33. Consideration of mining proposals involving violation of the EIA Notification, 2006, the project proponent shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court of India dated 02/08/2017 in WP © No. 114 of 2014 in the matter of Common Cause V/s Union of India & others before grant of TOR/EC. The undertaking inter alia includes commitment of the PP not to repeat any such violation in future as per MoEF&CC OM No. F.NO. 3-50/2017-IA.III (Pt.) dated 30/05/2018.
34. The mining project proponents involving violations of the EIA Notification, 2006 under the provisions of S.O. 804 (E) dated 14/03/2017 and subsequent amendments for TOR/EC shall give an undertaking by way of affidavit to comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. Before grant of TOR/EC the undertaking inter-alia include commitment of the PP not to repeat any such violation of future. In case of violation of above undertaking, the TOR/Environmental Clearance shall be liable to be terminated forthwith.
35. Under CER scheme commitments with physical targets shall be included in EIA report for:
 - ✓ Proposal for CER activities based upon commitment made during public hearing and COVID-19 pandemic.
 - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in concerned village shall be proposed.
 - ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to them who are residing in the nearby villages, shall be considered.
 - ✓ PP's commitment that activities proposed in the CER scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.
36. Under Plantation Scheme commitments with budgetary allocations shall be included in EIA report for :
 - ✓ Comprehensive green belt plan with commitment that entire plantation shall be carried out in the initial three years and will be maintained thereafter with causality replacement. Proposal for distribution of fruit bearing species for nearby villagers shall also be incorporated in the plantation scheme and for which a primary survey for need assessment in concerned village shall be carried out.
 - ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
 - ✓ Commitment that high density plantation (preferably using "Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation through concern CCF (social forestry) or concerned DFO or any other suitable agency.

- ✓ Commitment that local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose through Gram Panchayat on suitable community land in the concerned village area and handed over to Gram Panchayat after lease period.
- ✓ In the proposal for plantation, entire plantation proposed in barrier zone of lease area shall be carried out in the first year itself as per submitted plantation scheme and. Sowing of seeds (such as Neem, Castor, Babool, Prosopis, Chiroi / locally available species etc) along the lease boundary fencing (trench size shall be 45cm depth x 45 cm width) shall be carried out and excavated soil shall be placed between trench and fencing. Sowing of seeds shall be on the excavated soil.
- ✓ PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
- ✓ Where ever Aushadhi Vatika (Medicinal plants including herbs, shrubs, climber) is proposed by PP, minimum 50 saplings be planted considering 80% survival.

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.

37. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
38. Detailed analysis of availability and quality of the drinking water resources available in the block.
39. 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.
40. The consent of Gram Sabah of the villages in the area where project is proposed shall be obtained.