

The 534<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 15<sup>th</sup> December, 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. – 6348/2019 M/s Kutch Chemical Industries Ltd, Plot No. 189, 191, 192, AKVN Industrial Area, Village and Tehsil - Meghnagar, Dist. Jhabua, MP Prior Environment Clearance for Proposed Project for Manufacturing of Synthetic Organic Chemicals at Plot No. 189, 191, 192, AKVN Industrial Area, Village and Tehsil - Meghnagar, Dist. Jhabua, MP. Env. Consul. M/s. EQMS .**

This is a case Prior Environment Clearance for Proposed Manufacturing of Synthetic Organic Chemicals (Capacity – 8300 MTPM) at Plot No. 189, 191, 192, AKVN Industrial Area, Village and Tehsil - Meghnagar, Dist. Jhabua, MP. The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals.

### **BACKGROUND**

The case was presented by PP and their consultant in the 392<sup>nd</sup> SEAC meeting dated 29/08/2019 wherein committee deliberated that the existing dye & dyes intermediate industries in Meghnagar IA are unable to manage the wastes properly and situation in Meghnagar IA is critical. PP stated that the proposed manufacturing of dye & dyes intermediate will be based on hydrogenation based technique avoiding generation of iron sludge considering the current situation in Meghnagar I.A.

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

PP has submitted the EIA report vide letter dated 7/9/2021 which was forwarded through SEIAA vide letter no.2005 dated 27/9/21 and the same was scheduled in the agenda.

The case was scheduled in 521<sup>th</sup> meeting dated 14/10/2021 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 case was scheduled for presentation, but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in SEAC meeting 526<sup>th</sup> meeting dated 11/11/2021 & 521<sup>th</sup> meeting dated 14/10/2021. Committee decided that since sufficient opportunities has been given to the PP for appraisal of their case but PP remains absent thus committee decided that case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

2. **Case No. – 6393/2019 M/s Panoli Intermediates (India) Pvt. Ltd, F-108, Mohta Building, 4, Bhikhaji Kama Place, New Delhi – 110066. Prior Environment Clearance for Manufacturing of Synthetic Organic Chemicals Proposed Capacity 8,000 MTPA, at Plot No. 108B, 190, Meghnagar Industrial Area, Dist. Jhabua, MP.**

This is a case Prior Environment Clearance for Proposed Manufacturing of Synthetic Organic Chemicals (Capacity – 8000 MTPM) at Plot No. 108B, 190, AKVN Industrial Area, Village and Tehsil - Meghnagar, Dist. Jhabua, MP.

### **BACKGROUND**

The case was presented by PP and their consultant in the 392<sup>nd</sup> SEAC meeting dated 29/08/2019 wherein committee deliberated that the existing dye & dyes intermediate industries in Meghnagar IA are unable to manage the wastes properly and situation in Meghnagar IA is critical. PP stated that the proposed manufacturing of dye & dyes

intermediate will be based on hydrogenation based technique avoiding generation of iron sludge considering the current situation in Meghnagar I.A.

Earlier this case was scheduled for presentation and discussion in 425<sup>th</sup> SEAC dated 26/02/2021 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 scheduled for the presentation in 526<sup>th</sup> date 11/11/21 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 case was scheduled again for presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. PP was also absent in the 526<sup>th</sup> date 11/11/21. Committee decided to give last chance to PP for making presentation in the subsequent meetings of SEAC after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

**3. Case No 8031/2020 M/s Kamtanath Minerals, Partner, Ms. Shivani Bhardwaj, R/o, 366, Jiwaji Nagar, Thatipur, Dist. Gwalior, MP - 474005 Prior Environment Clearance for Granite Quarry in an area of 6.90 ha. (1500 cum per annum) (Khasra No. 37/1/Min-1), Village - Bedaura Jungle, Tehsil - Lidhora, Dist. Tikamgarh, (MP) [Env. Consult.: M/s. Aseries Envirotech India Pvt. Ltd. Noida, U.P.]**

This is case of Granite Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 37/1/Min-1), Village - Bedaura Jungle, Tehsil - Lidhora, Dist. Tikamgarh, (MP) 6.90 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. 784 dated: 24.11.2020

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 473<sup>rd</sup> SEAC dated 07/01/2021 wherein ToR was recommended. PP has submitted the EIA report forwarded through SEIAA on-line and the same was scheduled in the agenda.

The EIA was presented by Env. Consultant Shri Dr. R. K. Pandey from M/s. Aseries Envirotech India Pvt. Ltd. Noida, U.P. wherein during presentation as per Google image based on coordinates provided by PP, it was observed that a kachcha road is crossing the lease and a stop dam in the south eastern side (>250 meter) of the lease. PP submitted that area occupied by road shall be left as non mining area and will be developed as green belt. PP further submitted that this road is used for the mining purpose. PP submitted further that mining shall be carried out by block cutting and by wire saw method and 30m depth is proposed. Following salient features of the mining were submitted by PP:

- All the mining operations will be carried out by mechanical opencast method.
- Loading of the block of granite will be done by crane in truck/dumper.
- Haul road will be extended up to bottom of the quarry. Over burden will be hauled by loader cum dumper combination.
- During mining blasting will be occasional and will be only for the OB removal.
- Granite quarry after complete development will be divided into zonal area, or a particular blasting zone will be located. The upper crust of the site termed as weathered zone will be blasted with control drilling & blasting.
- Block cutting and diamond wire saw will be utilized in conjunction with drilling equipment at the site. The value of cutting is slightly higher as compared to other methods. This method is very effective in case of color Granite deposits and if the Granite blocks has less number of joints with wide spacing.
- The whole quarry operation will be done by open cast mechanized method with the help of Wire Saw. Slurry is generated at time of block cutting of granite through wire saw. Granite cutting are carried out, in the presence of water to avoid the emissions such as Dust/Fugitive.
- During cutting of granite, slurry will be channelized and collected in a settling Tank which has a dimension of 9m\*3m\*2m. In settling tank granite slurry settle down below, then this water is used for Haul Road for sprinkling, Green belt as well as used for further cutting of Granite block.
- The dried Granite slurry will be mixed with the overburden and will be used in backfilling area or dump area.

During presentation it was also observed that in the online Form-II and other submissions, PP has not uploaded complete EIA report (Page from 12 to 31 are missing in the submitted EIA report). PP regretted for this mistake and submitted that during uploading of documents, these pages have been skipped from uploading and showed the pages in the hard copy and also request that he may be allowed to submit the entire report in hard copy instantly. Committee takes this matter seriously and informed Env. Consultants to carefully upload EIA and avoid any such error in document uploading in future. After presentation committee asked PP to submit response on following issues including irrelevant/misleading information provided in Form-II, such as:

1. Submit complete EIA report as discussed during presentation.
2. Area occupied by kachha road and root stocks shall be left as non-mining area and this shall be shown on surface map.
3. Clarification of year-wise production plan because 02 years has been lapsed and production is shown in the presentation.
4. Revised water requirement plan for plantation.
5. Details of sprinkling system proposed with no. & capacity.
6. PP's commitment that OB shall not be dump in the village area as this issue was raised during public hearing.
7. Revised plantation scheme & species as suggested by committee with fencing status.
  - Sowing of seeds of Neem, Prosopis, Su-babool and locally available indigenous species etc. on the trench, along the fencing on the excavated soil and along the periphery.
  - In barrier zone, propose 03 rows plantation of minimum 2.5 feet height, plant spacing 03 m and row to row spacing 2.5 feet with pit size 45 cm<sup>3</sup> as suggested with the half filled good foreign soil and half filled by manure . Proposal of 6 feet tree guard.
8. Revised EMP add proposal for grazing land development with budgetary provision.
9. Proposal for CER activates should be based on public hearing propose 02 hand pumps along with recharge pit, as suggested by committee.

PP vide their letter dated 15/12/2021 submitted point wise query reply . 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 Granite Stone 1500 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 27.32 Lakh as capital and Rs. 6.29 Lakh/year as recurring has proposed by PP.
3. As proposed, a minimum of 8280 trees /year shall be planted within three years in barrier zone, evacuation road, and village as per the submitted plantation scheme.
4. Under CER following activities were submitted by PP:

CER Activities (as per public hearing minutes)	Amount
Construction of Boundary wall of Primary school, Matol	50,000
Distribution of 200 no. Mask & 50 ltr. Hand Sanitizer for Gram Panchayat, Matol.	5000
Installation a hand pump (02) with water recharge pit at Matol village & filter (01) at Primary School, Matol village	80,000
<b>Total</b>	<b>1,35000.00</b>

4. **Case No 8510/2021 Shri Sankalp Agarwal, Civil Line, Dist. Katni, MP - 483501 Prior Environment Clearance for Iron Ore Mine in an area of 4.92 ha. (1,56,525 TPA) (Khasra No. 66, 67), Village - Bijaiya, Tehsil - Sihora, Dist. Jabalpur (MP) Env. Consl.: [M/s. Aseries Envirotech India Pvt. Ltd. Lucknow, U.P.**

This is case of Iron Ore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 66, 67), Village - Bijaiya, Tehsil - Sihora, Dist. Jabalpur (MP) 4.92 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. 1865 dated 06/2/2019 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 21.79 ha., including this mine.

Earlier this case was scheduled for presentation and discussion in 498<sup>th</sup> SEAC dated 06/04/2021 wherein ToR was recommended. PP has submitted the EIA report forwarded through SEIAA on-line and the same was scheduled in the agenda.

The EIA was presented by Env. Consultant Shri Dr. R. K. Pandey from M/s. Aseries Envirotech India Pvt. Ltd. Noida, U.P. PP stated that this is Iron Ore Mine in an area of 4.92 ha., production of 1,24,120 cum per annum located at Khasra No. 66, 67, Village - Bijaiya, Tehsil - Sihora, Dist. Jabalpur. Wherein as per Google image based on coordinates provided by PP, it was observed that a kachcha road is crossing the lease area PP submitted that right to access shall be provided from the south side where a kachcha road is existing and this will be developed by the PP to the villagers. PP further submitted that for access another pucca road on the northern side is in existence which is used by the villagers. During presentation, following details were provided:

- Opencast mining method has been proposed.
- All operations of mining will be done by deployment of heavy earth moving machineries for excavation, loading & transportation on single shift basis, about 6-7 production benches will be developed from ARL 463/429m to 408m, the matured benches height will be 5-6 m and width will be 6m while working benches will be 10-15 m wide and worked as per five year plan to achieve maximum production.
- No tractor trolley shall be used for sprinkling inside the mining site and fixed type sprinklers shall be used.
- Grading of haul roads, service roads time to time, to remove the accumulated dusty material.
- No blasting is proposed.
- Proper maintenance of the earth moving equipment and vehicles, checking of exhaust emission and imposing of speed restrictions on them.

During presentation it was also observed that in the online Form-II and other submissions, PP has not uploaded complete EIA report wherein some details are missing or are not matching. PP regretted for this mistake and submitted that during uploading of documents, these pages have been skipped from uploading and showed the pages in the hard copy and also requests that he may be allowed to submit the entire report in hard copy instantly. Committee takes this matter seriously and informed Env. Consultants to carefully upload EIA and avoid any such error in document uploading in future. PP further submitted that previously prospecting & mining was carried out up to 2012-13 on the basis of CTO from the MPPCB on the southern side wherein 0.695 ha area is mined out as the area was below 5.00 ha. After presentation committee asked PP to submit response on following issues including irrelevant/misleading information provided in From-II, such as:

1. Submit complete EIA report as discussed during presentation.
2. Justified production of 1,24,120 CUM/ annum as per form II or 1,56,525TPA as per mine plan.
3. PP commitment access will be provided from the south side of lease boundary and same shall be shown on surface map.
4. Clarification of year-wise production plan because 02 years has been lapsed and production is shown in the presentation.
5. Revised water requirement plan for plantation.
6. Details of sprinkling system proposed with no. & capacity.
7. PP's commitment financial allocation will be made in the EMP for road maintenance as this issue was raised during public hearing.
8. Revised plantation scheme & species as suggested by committee with fencing status.
  - Sowing of seeds of Neem, Prosopis, Su-babool and locally available indigenous species etc. on the trench , along the fencing on the excavated soil and along the periphery .
  - In barrier zone, propose 03 rows plantation of minimum 2.5 feet height, plant spacing 03 m and row to row spacing 2.5 feet with pit size 45 cm<sup>3</sup> as suggested with the half filled good foreign soil and half filled by manure . Proposal of 6 feet tree guard.
9. Revised EMP add proposal for grazing land development with budgetary provision.
10. Proposal for CER activates should be based on public hearing propose 02 hand pumps along with recharge pit , as suggested by committee.

PP vide letter dated 15.12.2021 has submitted the query reply which was placed before committee. The query reply, The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of Prior Environment Clearance for Iron Ore Mine in an area of 4.92 ha. (1,56,525 TPA) (Khasra No. 66, 67), Village - Bijaiya, Tehsil - Sihora, Dist. Jabalpur (MP) subject to the following special condition at annexure 'A':

**(A) PRE-MINING PHASE**

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. PP shall also be give access to the villagers on road which is passing within the lease area falling on the non-mineralized area.



3. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
4. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
5. PP will also carry out fencing all around the lease area.
6. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
7. For dust suppression, regular sprinkling of water should be undertaken.
8. Tar/WBM road should maintain for carrying out the transportation shall be constructed prior to operation of mine.
9. PP will obtain other necessary clearances/NOC from respective authorities.

**(B) MINING OPERATIONAL PHASE**

10. No drilling and blasting is proposed in this project and mining will be carried out through bucket excavation.
11. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
12. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 5904 no's of trees will be planted along Transport route etc
13. Transportation of material shall be done in covered vehicles.
14. Transportation of minerals shall not be carried out through forest area.
15. The OB as Murrum shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
16. No water shall be discharged outside the mine and "Zero Liquid Discharge" should be maintained.
17. Water sprinkling through tankers should be provided on 500 meter long and 06 meter wide haul road. However, regular water spraying should also be practiced on 70 meters long and width 06 meters wide transport road for dust suppression.
18. 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.

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

**(C) ENTIRE LIFE OF THE PROJECT**

24. The proposed EMP cost is Rs. 17.92 lakhs and Rs. 6.94 lakhs /year are proposed as recurring cost.
25. Under CER following activities were submitted by PP:

For Social Welfare (in terms of Physical activities)	
Particulars	Amount Rs.
<ul style="list-style-type: none"><li>Distribution of 500 Nos. Mask &amp; 10L Hand Sanitizer for Gram Panchayat, Bijaiya - /-</li></ul>	10,000
<ul style="list-style-type: none"><li>providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to approx.8 mine workers-</li></ul>	20000/-
<ul style="list-style-type: none"><li>Distribution of winter clothes in a village school for 70 students-</li></ul>	20000/-
<ul style="list-style-type: none"><li>Installation a hand pump (02) at village common area at village-</li></ul>	80,000/-
	<b>1,30000.00</b>

26. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.

27. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
28. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
29. PP will comply with all the commitments made vide letter dated 18.05.2020.
30. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

**5. Case No 8826/2021 Shri Jagannath, Hall Mukaam, Ronija Road, Barnagar, District- Ujjain, MP – 456771 Prior Environment Clearance for Murrum Quarry in an area of 4.0 ha. (Expansion from 6717 to 19500 Cum per annum) (Khasra No. 623), Village - Moulana, Tehsil - Badnagar, Dist. Ujjain (MP) Env. Consultant from M/s. Aseries Envirotech India Pvt. Ltd. Lucknow, U.P.**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 623), Village - Moulana, Tehsil - Badnagar, Dist. Ujjain (MP) 4.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Shri O.P. Yadav 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. 541 dated 11/08/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. PP submitted that this is a case of capacity expansion of Murrum from 6717 cum per annum to 19500 cum per annum. Previous EC was issued by SEIAA vide letter no. 6941 dated 30.10.2015 for 6717 cum per annum, wherein target for plantation was 45 trees /ha. and minimum 180 plants to be planted whereas only 10-15 saplings were found. PP has submitted MoEF&CC compliance report vide no. 754 dated 12.11.2021 with following non compliance:

- Partially fencing
- Only 10-15 saplings.

During presentation PP 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
Kachha Road	10 & 30	North & west	Three rows of Plantation.
Habitation	30 & 70	North	70 m setback and proposal for three rows of Plantation.

After presentation the committee observed that target for plantation was allotted to PP was 45 trees /ha. , and minimum 180 plants to be planted whereas only 10-15 saplings were found and also site is not properly fenced. So this condition was not complied by PP which was mentioned by MoEF&CC compliance report, Hence, committee asked PP to plant at least 500 saplings of trees of 3-4 feet height and submit their photographs and documentary evidences such as bills for verification and plan for improvement on non compliances for further consideration of this case.

6. **Case No 8830/2021 Shri Amit Sharma S/o Shri Laxminarayan Sharma, Dana Oil New Sarafa, Lashkar, Dist. Gwalior, MP Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (34000 Cum per annum) (Khasra No. 3921), Village - Biloua, Tehsil - Dabra, Dist. Gwalior (MP) Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 3921), Village - Biloua, Tehsil - Dabra, Dist. Gwalior (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented Consultant Shri Amit Saxena on behalf of PP. PP submitted that this is a case of capacity expansion of stone from 20,000 cum per annum to 34,000 cum per annum. 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 & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekle Praman-patra) letter No. 9131 dated 30/09/2021 has reported that there are 19 more mines operating or proposed within 500 meters around the said mine with total area 32.637 ha.

including this mine. During presentation PP submitted that Environmental Clearance is required for mining project for a targeted production of Stone Enhance 20000 cum. per annum to 34000 cum. per annum. Initially, the quarry lease extraction for crushing purpose of stone, over an area of 1.00 hect (Survey No. 3921) for, situated near village-Biloua, Tehsil – Dabra, District-Gwalior (M.P.) Letter of Intent has been issued in favour of Shri Amit Sharma for 10 years by the Director of Geology & Mining Department Bhopal (M.P.) vide letter no. 12489/ Khanij / U.P./ Na. Kra. 09/2016, Dated 27.07.2016 for submitted the approval Mining Plan. The Mining Plan with progressive Mine Closure Plan was approved by Regional Head Geology & Mining Department, Gwalior for a production of Stone 20000 cum per annum. Environmental Clearance has been issued by DEIAA, Gwalior vide letter No. 1247/DEIAA/Na.Kra.-1/2016, Gwalior dated 22.02.2017 for proposed production of Stone Gitti 20,000 cu.m. per annum. Thereafter lessee wants Enhance the production of stone 20000 Cum./ year to 34000 Cum. /year. The modified Mining Plan with progressive Mine Closure Plan prepared for enhance production of stone 20000 Cum./ year to 34000 Cum. /year and submitted under Rule 42 (c) of M.P. Minor Mineral Rules 1996 for necessary approved and same was approved by Regional Head Geology & Mining Department, Gwalior.

Being it's a case Stone Quarry with total area of 32.637 ha., including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

1. Being case of expansion submit MoEF&CC compliance report with plantation & nos. of photographs in the EIA report.
2. Year wise details of minerals already excavated till date should be submitted with EIA report.
3. Compliance of consent conditions of M. P. Pollution Control Board from concerned Regional Office.
3. Level of mechanization should be discussed in the EIA report.
4. Hydro- geological study should be carried out if ground water intersection is proposed.
5. Status of all court cases (with summery of all the directions and compliances made) issued by honorable Courts.
6. A list of all the mines located in the Billaua, Rafadpur and Chirpura cluster along with their lease area, lease period, existing production, proposed production as per approved mine plan, production for which the EC is desired ( Form 1),

available minable reserve, proposed ultimate depth, post mining land use, details of crusher if located within the lease area, if crushing is done outside the lease area its location and details, details of any habitation, water body, road, school, or hospital or any other public place within 500 m of the cluster.

7. A satellite Image of the area showing all the mines and crusher located in the cluster, mineral evacuation route, all important features like water body, habitation, roads, industry and other mines etc located within 5 km radius of the cluster.
8. A surface plan of the entire cluster area (contour interval not more than 3.0 m) with maximum and minimum RL of each mine of cluster.
9. Air pollution control measures adopted by each mine and crusher in the cluster.
10. An evacuation plan for entire cluster with evacuation route shown on a map, location of school, hospital, habitation etc falling on the route should also be shown on the map. The plan should also include the type and condition of the road and a justification that road network is adequate to evacuate the proposed production from the cluster.
11. Ambient Air Quality Monitoring on following locations be conducted for one season (winter):-
  - (a) Three monitoring station one each at three nearby villages i.e. Billaua, Rafatpur & Chirpura.
  - (b) Two monitoring station one each at main evacuation road and Billaua village road.
  - (c) Three monitoring station i.e. one at windward direction and two at leeward direction.
  - (d) Three monitoring station within the cluster area near installed crushers.
  - (e) One monitoring station close to water body i.e. Udalpara Tal.
12. Furnish the name and production of the each mine within 01 kms radius that were in operation during the base line data collection.
13. Photography and Videography should also be done during collection of baseline data.
14. Noise Monitoring on following locations be conducted for one season (winter):-
  - (a) Three monitoring station one each at three nearby villages i.e. Billaua, Rafatpur & Chirpura.
  - (b) Two monitoring station one each at Naktapata square and nearby water body.
  - (c) Three monitoring station within the cluster area near installed crushers.

15. Discuss in EIA report the present scenario of OB management with locations of OB dump marked on map, measures taken for stabilization of dump, photographs of OB dump and proposed OB management plan for entire cluster.
16. Provide information regarding mine wise requirement of water, mine wise source of water and total water requirement of entire cluster.
17. A blast induced ground vibration and air over pressure study for the mines located within 500 m of any dwellings or any other important structure. The study should clearly recommend a site specific square root predictor equation for determining the maximum charge/delay that can be safely used.
18. A drainage plan for entire cluster and surface run off management plan.
19. Hydrological studies be carried out to address the impact of existing mining activities on ground water. The report shall clearly mention the maximum depth up to which mining can be allowed in the cluster without causing any adverse impact on ground water and extent up to which mining can be allowed near surface water body.
20. Proposed plantation scheme and if plantation is proposed outside the lease area commitment of PP is required.
21. Public consultation be conducted as per EIA Notification, 2006.
22. In addition to EMP for entire cluster in the EIA report a site specific EMP for each mine should also be prepared and submitted separately.
23. Provide details of court cases/ litigations pending, if any.

**7. Case No 8817/2021 Smt. Dolly Sharma W/o Shri Raman Sharma, Near Kajol Talkies, Falka Bazar, Lashkar, Dist. Gwalior, MP Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (27048 Cum per annum) (Khasra No. 3921), Village - Biloua, Tehsil - Dabra, Dist. Gwalior (MP) Env. Consultant Apex Min Tech. Udaypur, Rajasthan Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 3921), Village - Biloua, Tehsil - Dabra, Dist. Gwalior (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was scheduled in 532<sup>th</sup> meeting dated 07/12/2021 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. Committee decided to call the PP in subsequent meetings.

The case was presented Consultant Shri Amit Saxena 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 & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekle Praman-patra) letter No. 9130 dated 30/09/2021 has reported that there are 18 more mines operating or proposed within 500 meters around the said mine with total area of 32.637 ha. including this mine.

Being it's a case Stone Quarry with total area of 32.637 ha. including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

1. Being case of expansion submit MoEF&CC compliance report with plantation & nos. of photographs in the EIA report.
2. One kachha road crossing the lease hence its appropriate setback, management and provision of right to access to the local villagers.
3. A water body is existed at a distance of 95 m in the east direction and in the south at a distance of 77 m hence minimum setback of 100 m shall be maintain accordingly protection plan shall also be provided with the EIA report and NOC from the competent authority shall be obtained for mining operations near water body.
4. Approx. 06 Tree are existing within lease area hence inventory of the trees along with height and girth of the trees shall also be submit with the EIA report.
5. Year wise details of minerals already excavated till date should be submitted with EIA report.
6. Compliance of consent conditions of M. P. Pollution Control Board from concerned Regional Office.
7. Level of mechanization should be discussed in the EIA report.
8. Hydro- geological study should be carried out if ground water intersection is proposed.
9. Status of all court cases (with summery of all the directions and compliances made) issued by honourable Courts.



10. A list of all the mines located in the Billaua, Rafadpur and Chirpura cluster along with their lease area, lease period, existing production, proposed production as per approved mine plan, production for which the EC is desired ( Form 1), available minable reserve, proposed ultimate depth, post mining land use, details of crusher if located within the lease area, if crushing is done outside the lease area its location and details, details of any habitation, water body, road, school, or hospital or any other public place within 500 m of the cluster.
11. A satellite Image of the area showing all the mines and crusher located in the cluster, mineral evacuation route, all important features like water body, habitation, roads, industry and other mines etc located within 5 km radius of the cluster.
12. A surface plan of the entire cluster area (contour interval not more than 3.0 m) with maximum and minimum RL of each mine of cluster.
13. Air pollution control measures adopted by each mine and crusher in the cluster.
14. An evacuation plan for entire cluster with evacuation route shown on a map, location of school, hospital, habitation etc falling on the route should also be shown on the map. The plan should also include the type and condition of the road and a justification that road network is adequate to evacuate the proposed production from the cluster.
15. Ambient Air Quality Monitoring on following locations be conducted for one season (winter):-
  - (a) Three monitoring station one each at three nearby villages i.e. Billaua, Rafatpur & Chirpura.
  - (b) Two monitoring station one each at main evacuation road and Billaua village road.
  - (c) Three monitoring station i.e. one at windward direction and two at leeward direction.
  - (d) Three monitoring station within the cluster area near installed crushers.
  - (e) One monitoring station close to water body i.e. Udalpara Tal.
16. Furnish the name and production of the each mine within 01 kms radius that were in operation during the base line data collection.
17. Photography and Videography should also be done during collection of baseline data.
18. Noise Monitoring on following locations be conducted for one season (winter):-
  - (a) Three monitoring station one each at three nearby villages i.e. Billaua, Rafatpur & Chirpura.
  - (b) Two monitoring station one each at Naktapata square and nearby water body.

- (c) Three monitoring station within the cluster area near installed crushers.
19. Discuss in EIA report the present scenario of OB management with locations of OB dump marked on map, measures taken for stabilization of dump, photographs of OB dump and proposed OB management plan for entire cluster.
  20. Provide information regarding mine wise requirement of water, mine wise source of water and total water requirement of entire cluster.
  21. A blast induced ground vibration and air over pressure study for the mines located within 500 m of any dwellings or any other important structure. The study should clearly recommend a site specific square root predictor equation for determining the maximum charge/delay that can be safely used.
  22. A drainage plan for entire cluster and surface run off management plan.
  23. Hydrological studies be carried out to address the impact of existing mining activities on ground water. The report shall clearly mention the maximum depth up to which mining can be allowed in the cluster without causing any adverse impact on ground water and extent up to which mining can be allowed near surface water body.
  24. Proposed plantation scheme and if plantation is proposed outside the lease area commitment of PP is required.
  25. Public consultation be conducted as per EIA Notification, 2006.
  26. In addition to EMP for entire cluster in the EIA report a site specific EMP for each mine should also be prepared and submitted separately.
  27. Provide details of court cases/ litigations pending, if any.

**8. Case No 8825/2021 Shri Pawan Choudhary Onwer, Situated near Village - Digthan, Tehsil - Pithampur, Dist. Dhar (MP) Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (12000 Cum per annum) (Khasra No. 1364 Peki), Village - Digthan, Tehsil - Pithampur, Dist. Dhar (MP).**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 1364 Peki), Village - Digthan, Tehsil - Pithampur, Dist. Dhar (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by Consultant Shri Amit Saxena 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. 2839 dated 23/09/2021 has reported that there are no more mines operating or proposed within

500 meters around the said mine. During presentation PP 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, it was observed that the lease area is already excavated PP submitted that it is very old pit and in existence since 2011 and case be verified from previous Google image. 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
Kachcha Road	Adjacent	South East	10 m setback with three rows of plantation.
Kachcha Road	10	SW to SE	Three rows of plantation.
Habitation	410	North-West	Three rows of plantation.

After presentation the committee asked to submit following details:

- Revise surface map showing non- mining area in the north-eastern side where root stocks are sporadically existed.
- Revised plantation scheme & species as suggested by committee.
- Revised EMP with budgetary provision of additional plantation and remove VT training.

PP has submitted the response of above quarries same date vide letter dated 15.12.2021, 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 – 12,000 Cum per annum.
2. A budgetary provision for Environmental management Plan of Rs.16.57 Lakh as capital and Rs. 02.03 Lakh/year.
3. As proposed, a minimum of 2800 trees shall be planted as per the submitted plantation scheme.
4. Under CER following activities were submitted by PP:

year	Proposed activity	Amount (Rs.)
1 <sup>st</sup>	a. Construction of School Boundary wall.	60,000
2 <sup>nd</sup>	a. Installation of School Gate at Village Shankarpura. b. Installation of water filters at School of Village Shankarpura.	60,000
3 <sup>rd</sup>	a. Awareness camps for diseases like Oral Hygiene, Diabetes and Blood Pressure at the Villages Namely Shankarpura , Digthan, Maharaj Khedi.	60,000
	Total	1,80,000/-

**9. Case No 8833/2021 M/s Maa Narbada Crusher, Proprietor, Village - Sondul, Tehsil - Manawar, Dist. Dhar, MP Prior Environment Clearance for Stone Quarry in an area of 2.90 ha. (8858 Cum per annum) (Khasra No. 46/1 Peki), Village - Sondul, Tehsil - Manawar, Dist. Dhar (MP) Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 46/1 Peki), Village - Sondul, Tehsil - Manawar, Dist. Dhar (MP) 2.90 Ha. The project requires prior EC before commencement of any activity at site.

The case was scheduled for the presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

**10. Case No 8835/2021 Shri Rakesh Tanwar Onwer, 63, Lunherakhurd, Near Ram Mandir, Tehsil Dharmपुर, District - Dhar, MP - 454001 Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (10,000 Cum per annum) (Khasra No. 131/1 Peki), Village - Chandawad, Tehsil - Dharamपुर, Dist. Dhar (MP). Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 131/1 Peki), Village - Chandawad, Tehsil - Dharamपुर, Dist. Dhar (MP). 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by Consultant Shri Amit Saxena 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. 3154 dated 17/11/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. During presentation PP 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
Kachcha Road	Adjacent	South East	Setback with three rows of plantation .
Habitation	724	South -West	Three rows of plantation.

After presentation the committee asked to submit following details:

- Revise surface map showing non- mining area in the South East side where kachhha road in adjacent to lease area and 01 tree is existed.
- Propose revised plantation scheme & species as suggested by committee.
- Revised EMP( remove VT training) with revised budget.
- Revised CER add provision of submersible pump, overhead tank, as suggested by committee

PP has submitted the response of above quarries same date vide letter dated 15.12.2021, 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 – 10,000 Cum per annum.
2. A budgetary provision for Environmental management Plan of Rs.12.15 Lakh as capital and Rs. 04.06 Lakh/year.
3. As proposed, a minimum of 2700 trees shall be planted as per the submitted plantation scheme.

4. Under CER following activities were submitted by PP:

Year	Proposed activity	Amount (Rs.)
1 <sup>st</sup>	a. Construction of Girls toilet of School at Chandawad village with running water facility and construction of water tanker at roof of toilets	1,50,000
2 <sup>nd</sup>	a. Distribution of computer & printer to school at Village Chandawad.	30,000
3 <sup>rd</sup>	a. Awareness camps for diseases like Oral Hygiene, Diabetes and Blood Pressure at the Villages Namely Chandawad, Tarapur, Gavlyawadi b. Installation of water filter at School of Village Chandawad.	90,000
	<b>Grand Total</b>	<b>2,70,000</b>

**11. Case No 8846/2021 Shri Vikas Sogani Onwer, Situated near Village - Badgaon, Tehsil - Manawar, Dist. Dhar, MP - 454001 Prior Environment Clearance for Stone Quarry in an area of 1.128 ha. (6373 Cum per annum) (Khasra No. 150/1), Village - Badgaon, Tehsil - Manawar, Dist. Dhar (MP) Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 150/1), Village - Badgaon, Tehsil - Manawar, Dist. Dhar (MP). 1.128 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by Consultant Shri Amit Saxena 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. 6765 dated 10/09/2021 has reported that there are one more mines operating or proposed within 500 meters around the said mine with total area 3.128 ha., including this 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
Water body	80	North-East	Provision of Garland drain & settling tanks.
01 or 02 Structure /shed/house	Within lease	-	PP shall submit photographs of these structure

During presentation as per Google image it was observed by committee 2-3 more mine are existed within 500 meters however , M.O. stated that only 01 mine operating or proposed within 500 meters hence, PP was asked to submit M.O. clarification along with photographs of these structure for further appraisal of this case.

**12. Case No 8847/2021 Shri Mendu Meda, Owner, Village - Semlipura, Tehsil & Dist. Dhar, MP - 454001 Prior Environment Clearance for Murrum Quarry in an area of 1.214 ha. (10000 Cum per annum) (Khasra No. 224 Peki), Village - Naugaon Bujurg, Tehsil - Dhar, Dist. Dhar (MP) Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 224 Peki), Village - Naugaon Bujurg, Tehsil - Dhar, Dist. Dhar (MP) 1.128 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by Consultant Shri Amit Saxena 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. 2838 dated 23/09/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

As per Google image based on coordinates provided by PP, it was observed by committee that a wind mill located at a distance of 85 m in the north-west & 37 m in the south- eastern side of the lease . Committee observed that SEIAA in their 263th meeting dated 28.11.2015 has decided to leave minimum 300 m distance from the periphery of Wind Turbine Generator Foundation with reference to letter no. 1097 dated 20.11.2015 issued by Commissioner, New & Renewable Energy. Committee observed that if 300 meters area is left as non mining area, no area will be available to carryout mining. Thus considering above facts committee after deliberation recommends that this case cannot be

considered for grant of EC and case file may be sent to SEIAA for onward necessary action.

**13. Case No 8832/2021 Smt. Sonam Jayswal, Onwer, Situated near Village - Bhodal, Tehsil - Dharampuri, Dist. Dhar (MP) - 454001 Prior Environment Clearance for Murrum Quarry in an area of 2.0 ha. (15000 Cum per annum) (Khasra No. 46/1 Peki), Village - Bhodal, Tehsil - Dharampuri, Dist. Dhar (MP) Consultant Shri Amit Saxena Apex Mintech Udaypur (Rj.)**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 46/1 Peki), Village - Bhodal, Tehsil - Dharampuri, Dist. Dhar (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by Consultant Shri Amit Saxena on behalf of PP. During presentation PP submitted that since it is a Murrum Quarry where no drilling & blasting is proposed. Mining shall be done through Opencast Semi Mechanized Method. 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. 3010 dated 26/10/2021 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
Human settlement	55	SW	45 m setback with protection plan
Human settlement	30	North East	70 m setback with protection plan
Water body	180	West	Provision of Garland drain & settling tanks.
Highways	355	East	Protection plan with three rows of Plantation towards road side.
Isolated hutments		North	Protection plan and three rows of plantation.

PP submitted that these human settlements in the North- East side are isolated structure are not used for residential purpose committee asked PP to submit photographs with MO clarification. After presentation the committee asked to submit following details:

- PP shall be submitted photographs (with latitude & longitudes) with M.O. clarification w.r.t. human settlements in the North- East side.



- Justify 37,500 TPA wrt quantity mentioned in the form-II.
- Revised CER- Propose proposal of drinking water facility with submersible pump and over head tank and distribution of computer & printer in the village school.

**14. Case No 8841/2021 M/s Arcon Mining Pvt. Ltd, Flat No. 101, Virendra Villas Apartment, Patel Nagar, Dist. Gwalior, MP - 474001 Prior Environment Clearance for Stone Quarry in an area of 1.090 ha. (12000 Cum per annum) (Khasra No. 2627/min-1, 2630/min-2&3, 2632/min-2&3, 2633, 2634/1-min2), Village - Bilaua, Tehsil - Dabra, Dist. Gwalior (MP) RQP Swati Namdeo**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 2627/min-1, 2630/min-2&3, 2632/min-2&3, 2633, 2634/1-min2), Village - Bilaua, Tehsil - Dabra, Dist. Gwalior (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was scheduled for the presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

**15. Case No 8836/2021 Smt. Archana Surana, Onwer, 20 Rajmahal Colony, Tehsil and Dist. Ratlam, MP - 457001 Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (17100 Cum per annum) (Khasra No. 13/3/2), Village - Dhabaipada, Tehsil - Ratlam, Dist. Ratlam (MP). Env. Consultant M/s. Aseries Envirotech India Pvt. Ltd. Lucknow, U.P.**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 13/3/2), Village - Dhabaipada, Tehsil - Ratlam, Dist. Ratlam (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by RQP Shri O.P. Yadav 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. 4010 dated

24/09/2021 has reported that there are one more mines operating or proposed within 500 meters around the said mine with total area 3.20 ha., including this 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. 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
Pucca Road	110	NW - SE	Protection plan with three rows of Plantation towards road side.
Kachha Road	Crossing the lease	North- south	PP shall submit proposal for non- mining area upto lease boundary in the east boundary.
Water body	160	North east	Provision of Garland drain & settling tanks.

During presentation as per Google image it was observed by committee 03-04 more mine are existed within 500 meters however, M.O. stated that only 01 mine operating or proposed within 500 meters. During presentation PP submitted that they have obtained MO clarification on this issued vide no. 5294 dated 15.12.2021 wherein MO has stated that other mine in 500 meters is exhausted in the year 2017 and now not in existence. After presentation, PP was asked to submit following details:

- Proposal for non- mining area up to lease boundary in the east boundary.
- Revised plantation scheme & species as suggested by committee with fencing status.
  - Sowing of seeds of Neem, Prosopis, Su-babool and locally available indigenous species etc. on the trench, along the fencing on the excavated soil and along the periphery.
  - In barrier zone, propose 03 rows plantation of minimum 2.5 feet height, plant spacing 03 m and row to row spacing 2.5 feet with pit size 60 cm<sup>3</sup> as suggested with the half filled good foreign soil and half filled by manure . Proposal of 6 feet tree guard.
- Revised CER- Propose proposal of white wash and paint in the school as suggested by committee during presentation.

PP has submitted the response of above quarries same date vide letter dated 15.12.2021, 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 17,100 cum/annum.
2. A budgetary provision for Environmental management Plan of Rs.10.87 Lakh as capital and Rs. 03.23 Lakh/year.
3. As proposed, a minimum of 2400 trees shall be planted as per the submitted plantation scheme.
4. Under CER following activities were submitted by PP:

For Social Welfare (in terms of Physical activities)	
Particulars	Amount Rs.
<ul style="list-style-type: none"><li>• White wash in school building and paint school main gate and Board</li></ul>	60,000
	<b>60,000.00</b>

#### **Discussion on Query Reply submitted by PP**

**16.Case No 7817/2020 M/s Viscus Oils Pvt. Ltd, 55/1/2-C, New Palasia, Dist. Indore, MP – 452001 Prior Environment Clearance for Expansion in Manufacturing of Resin & other Edible/non-edible based products at Village - Raokhedi, Post - Mangaliya, A.B. Road, Tehsil - Sanwer, Dist. Indore (MP). Project Catogory- 5(f) Env. Con. M/s. SAN Envirotech Pvt. Ltd.,**

This is case of Prior Environment Clearance for Expansion in Manufacturing of Resin & other Edible/non-edible based products at Khasra no., Village - Raokhedi, Post - Mangaliya, A.B. Road, Tehsil - Sanwer, Dist. Indore (MP).

Earlier this case was scheduled for presentation and discussion in 463<sup>nd</sup> SEAC dated 1/10/2020 wherein ToR was recommended. PP has submitted the EIA report vide letter dated 26/7/21 which was forwarded through SEIAA vide letter no. 1688 dated 17/08/21 and the same was scheduled in the agenda.

The case was again scheduled for the presentation in 511<sup>th</sup> SEAC meeting dated 26/08/21 but neither the Project Proponent (PP) nor his representative was present to explain the

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

The EIA was presented by the Consultant Mr. Mahendra Sadaria, from M/s. SAN Envirotech Pvt. Ltd., and Mr. Raj Kumar Patel, Director and Mr. Pankaj Chatterjee, Vice President from M/s. Viscus Oils Pvt. Ltd (PP) in the 513<sup>rd</sup> SEAC meeting dated 08-09-21. During presentation PP submitted that this is a case of Expansion in Manufacturing of Resin & other Edible/non-edible based products. PP further submitted following details of the project:

- M/s. Viscus Oil Pvt. Ltd. is working Unit is engaged in manufacturing of Alkali Refined, Rosin Gum, Soya Lectin, Stand Oil, (Stand + Vispol + DCO + DBLO) and Synthetic Resin (Alkyd + Phenolic + Polyester) with production capacity of 2083 MT/Annum established prior EIA Notification, 2006.
- Unit has valid CTO under the different Environmental Act issued by MPPCB.
- Now, unit proposed to drop 2 products i.e. Rosin Gum, Soya Lectin and proposed to increase quantity of remaining existing products along with addition of one new product - Vegetable Oil Ester. After expansion, total capacity will be increased up to 17400 MT/Annum. Terms of Reference was issued by SEAC, MP on 06.10.2020.
- We have carried out EIA study as per the generic structure of EIA notification, 2006 incorporating TOR points issued by SEAC, Madhya Pradesh.
- Public Hearing was conducted by MPPCB at the site of project on 26.06.2021. Observations in Public Hearing Minutes and Action Plan with Budgetary Provision is given in slide no. 29.
- Unit has submitted final EIA report along with MoM of Public Hearing to SEIAA/SEAC, MP.
- The details of solid and hazardous waste generation along with its mode of treatment/disposal are furnished as below:

S. No.	Type of Waste	Source	Quantity Generated (TPA)	Mode of Treatment/Disposal
1	ETP sludge	ETP	4.0 MT/Yr.	Collection, Storage, Transportation, Disposal at TSDF
2	Discarded containers Liner/ Bags	Raw material	6000 Nos./Yr. 4.8	Collection, Storage, Transportation, Disposal by selling to Authorized

			MT/Yr.	Recycler.
3	Used Oil	Plant machineries	0.500 KL/Yr.	Collection, Storage and reuse as lubricant

- The details of the raw material requirement for the proposed project/ expansion cum proposed project along with its source and mode of transportation is given as below:

S. No.	Raw material	Quantity required per annum			Source	Distance from site (Kms)	Mode of Transportation
		Existin g	Expansion	Total			
1.	Alkyl Phenol like PTBP, PTOB, Bisphenol, Nonyl Phenol/other Phenol	36.36	1164.84	1201.2	Indigenous	50	Road
2.	Castor Oil	705.36	3683.64	4389.0	Indigenous	50	Road
3.	Catalyst Potassium Bisulphate	6.72	35.28	42	Indigenous	50	Road
4.	Catalysts	0.12	2.88	3	Indigenous	50	Road
5.	Caustic	5.4	28.2	33.6	Indigenous	50	Road
6.	Earth + Carbon	16.92	88.08	105	Indigenous	50	Road
7.	Gum Rosin	324	10368	10692	Indigenous	50	Road
8.	Linseed Oil	675.6	41324.4	42000	Indigenous	50	Road
9.	Maleic Anhydride/ Fumeric Acid	25.44	812.76	838.2	Indigenous	50	Road
10.	Organic Acids/ Anhydrides	120	3840	3960	Indigenous	50	Road
11.	Paraformaldehyde	15.0	480	495	Indigenous	50	Road
12.	Pentaerythritol/Glycerin	48.36	1548.84	1597.2	Indigenous	50	Road
13.	Polyols/Glycols/ Amines	69	2208	2277	Indigenous	50	Road
14.	Raw Oil	696.6	3637.8	4334.4	Indigenous	50	Road
15.	Solvent	00	192	192	Indigenous	50	Road
16.	Solvents (Xylene,	83.04	2655.09	2739	Indigenous	50	Road

	MTO, C-IX, C-X, BA, Ethanol, Ethyl, Acetate, Catalyst						
17.	Solvents (Xylene, Toluene, MTO, Slop Oil, Industrial Solvents, Thinner, C-IX, C-X, BA, BuOH, Aromax etc.)	78	2496	2574	Indigenous	50	Road
18.	Spent Catalyst	2.76	14.04	16.8	Indigenous	50	Road
19.	Vegetable Oil	715.56	6256.44	6972	Indigenous	50	Road
20.	Vegetable Oils/Fatty Acid	81.96	2624.04	2706	Indigenous	50	Road
21.	Wash oil with water	00	00	120	Indigenous	50	Road

- The water requirement for the project is estimated as 25.0 m<sup>3</sup> /day, out of which 20.0 m<sup>3</sup>/day of fresh water requirement will be obtained from the Tankers from outside and the remaining requirement of 5.0 m<sup>3</sup>/day will be met from RO permeate.
- The power requirement for the project is estimated as 250 kVA, out of which 250 kVA will be obtained from the M.P. Paschim KshetraVidhyutVitaran Company Limited, Indore.
- Baseline Environmental Studies (In case of clause 7(ii) projects from post project monitoring data) - Not Applicable in our case.
- The capital cost of the project is Rs. 8.58 Crores and the capital cost for environmental protection measures is proposed as Rs. 0.33Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.12 Crores. The employment generation from the proposed expansion is 70. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (Rs. In Lakhs)	
		Capital Cost	Recurring Cost
i.	Air Pollution Control/Noise	12.5	2.0
ii.	Water Pollution Control	7.5	2.5
iii.	Environmental Monitoring and Management	0.5	2.5

iv.	Green Belt Development	4.5	1.0
v.	Miscellaneous	8.0	4.0

- Greenbelt will be developed in 0.3445 ha which is about 33% of the total project area. A 3.0m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 475 saplings will be planted and nurtured in 0.1895 hectares in 1 years.

During appraisal it was observed by the committee that complete details are not uploaded by PP through online Form-II and even the all additional TOR points are also not addressed in EIA 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 From-II, such as:

1. In the From-II, in point no. such as 8.1, 9.1, 10- e, 13.b, 14.2, 15.0 16.1, 17.3, 18.2, 19.0, 22.0, 32, etc wherein details are wrongly mentioned as follows and needs revision/ factual information:
  - b. Public Hearing: Incomplete documents.
  - c. Point 8.1, List mismatches with the Table 2.3 of EIA.
  - d. Points 9.1 (i) & (ii) are wrong should not be NA (CTO dated 10.06.21 is attached)
  - e. Point 10 Fund allocated for the Environmental Management is only 1%
  - f. Point 13, (b) is wrong information, (a) & (c) does not match with 13.1
  - g. Point 14.2 TSS Max Permissible Limit Zero?
  - h. Point 15 Water Requirement 25 KLD, Outside Tanker?? How ?
  - i. Point 15 attachment, copy of permission letter is irrelevant document.
  - j. Point 17 (3) used oil disposal is not proper.
  - k. Point 18.2, Thermic Fluid Heater Stack Height is not proper should be 30 m.
  - l. Point 19, copy of agreement letter is irrelevant document.
  - m. Point 21. All values if given in unit Hectare are wrong.
  - n. Point 22. Land fill?? Difference between built up area & main plant?
  - o. Point 32. Copy of Green Belt Plan, Does not exhibit present plantation in the unit.

2. MSDS for only 6 chemicals: Phenol, Para-formaldehyde, Sodium Hydroxide, Xylene, Maleic Anhydride and Phthalic Anhydride is provided though there are many other chemicals (LiOH, KOH, KHSO<sub>4</sub>, Toluene, Ethanol etc. etc. are used, thus MSDS of all chemicals shall be submitted.
3. Worst case scenario as per specific TOR not submitted, please provide.
4. Details of solvents and their recovery plan not provided in EIA report.
5. How noise pollution will be reduced to substantial level as stated in EIA, please provide details.
6. Details of process emissions and proposed control measures.
7. Justify 33% green belt area w.r.t. canopy crown / basal area cover and which are the species planted (ever green or deciduous) shall be furnished with details of species and their number. Comprehensive green belt plan shall be submitted.
8. Proposed water supply is from tanker. How long this arrangement will be continued and is there any alternate proposal?
9. Commitment that thermic fluid heater stack height will be minimum 30 meters.
10. Commitment that used oil will be disposed through sale to authorized recyclers.
11. Details plan for commitment made during public hearing shall be submitted with commensurate budgetary allocations.

PP vide their letter dated 06/12/2021 uploaded online query reply and hard copy as well as on “Parivesh Portal”. The point wise query reply was presented by PP & their Env. Consultant. PP submitted that water supply proposed through tankers and PP stated that in future it will be through Borewell after obtaining permission from CGWB. Stack height will be increase to 30 m . Used oil will be disposed off through sale to authorized vendors. Committee observed that PP has not /addressed/ submitted complete query reply raised in the 525<sup>th</sup> SEAC meeting dated 10.11.2021. Hence, after presentation committee asked PP to submit Following information for further consideration of the project:

1. Only selected MSDS were submitted by the PP. PP was asked to submit MSDS of all chemicals (raw materials, intermediates and products).
2. Comprehensive details of Worst case scenario as per specific TOR not addressed properly.

PP vide their letter dated 06/12/2021 uploaded online query reply and hard copy as well as on “Parivesh Portal”. The point wise query reply was presented by PP & their Env.



Consultant during which consultant submitted that due to shortage of space all the MSDS were not uploaded however same are submitted through hard copy. On query, PP submitted that being this industry was established prior to the enactment of EIA Notification, 2006, no EC was obtained and thus compliance of previous EC conditions is also not applicable to them and they are seeking expansion EC for synthetic resin from 200 MTPA to 6600 MTPA (for additional 6400 MTPA). Committee observed that PP has submitted relevant information hence the case is recommended for grant of Prior Environment Clearance for Expansion in manufacturing of synthetic resin (6600 MTPA) & other Edible/non-edible based products mentioned below at Village - Raokhedi, Post - Mangaliya, A.B. Road, Tehsil - Sanwer, Dist. Indore (MP). Project Category- Cat. - 5(f), subject to the following special conditions:

S N	Product	Quantity (MTPA)			Unit	Status
		Existing	Proposed	Total		
1.	Alkali Refined	675	3525	4200	MTPA	Non EC Product
2.	Rosin Gum	333	-333	00	MTPA	Non EC Product
3.	Soya Lectin	200	-200	00	MTPA	Non EC Product
4.	Stand Oil (Stand + Vispol + DCO+ DBLO)	675	3525	4200	MTPA	Non EC Product
5.	Synthetic Resin (Alkyd + Phenolic + Maleic + Polyester)	200	6400	6600	MTPA	EC Product
6.	Vegetable Oil Ester	0.0	2400	2400	MTPA	Non EC Product

**(A) Statutory compliance:**

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

**(B) Air quality monitoring and preservation**

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to MPPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
3. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions from the boiler, DG set and scrubber shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines as follows:

Sr. No.	Stack attached to	Fuel Type	Stack Height (m)	APC measures
1.	Boiler (1.0 TPH)	Coal/ Agro Briquette (5 TPD)	Minimum 30 meters.	Multi Cyclone Separator and Bag Filter
2.	Thermic Fluid Heater (6 Lakhs kcal/hr.)	Coal/ Agro Briquette (4 TPD)	Minimum 30 meters.	Adequate Stack height
3.	D G Set (250 KVA) (Stand by)	HSD: 60.0 lit/hr.	Adequate Stack height as per CPCB norms.	Acoustic Enclosure
4.	Thermic Fluid Heater (10 Lakhs kcal/hr.)	Coal/ Agro Briquette (5 TPD)	Minimum 30 meters.	Multi Cyclone Separator and Bag Filter

4. Storage of raw materials, chemicals etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
5. The DG sets (1 x 250 kVA) shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
6. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.

7. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

**(C) Water quality monitoring and preservation**

1. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
2. “Zero Liquid Discharge” shall be ensured using ETP (10.0 KLD), 0.5 KL/hr. & Kettle type evaporator-2.0 KL/day and no waste/treated water shall be discharged outside the premises. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB’s server for remote operations.
3. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the Madhya Pradesh Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
4. Total fresh water requirement shall not exceed 20.0 KLD and as proposed, in case, if in-house bore or tube well is required, than CGWA permission shall be obtained before extracting ground water.
5. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
6. The Company shall harvest rainwater, after taking permission from State Pollution Control Board, from the roof tops of the admin buildings. Process building, raw material and finished goods storage building shall not be used for ground water recharging.
7. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.

**(D) Noise monitoring and prevention**

1. Acoustic enclosure shall be provided to DG sets (1x 250 kVA) for controlling the noise pollution.

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

**(E) Energy Conservation measures**

1. The energy sources for lighting purposes shall preferably be LED based.
2. The total power requirements for project will be 250 kVA.
3. The power will be supplied by Madhya Pradesh Electricity Board.

**(F) Waste management**

1. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
2. Hazardous waste such as Used oil, Discarded containers/drums, shall be handled & disposed as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 as follows:

Sr. No.	Type of Waste	Source	Category as per HWM rules, 2016	Total Quantity			Method of Disposal
				Existing	Proposed	Total	
1.	ETP sludge	ETP	35.3	1.0 MT/yr.	3.0 MT/Yr.	4.0 MT/Yr.	Collection, Storage, Transportation, Disposal at CTSDf
2.	Discarded containers  Liner/ Bags	Raw material	33.1	1500 Nos./Yr.  1.2 MT/Yr.	4500 Nos./Yr.  3.6 MT/Yr.	6000 Nos./Yr.  4.8 MT/Yr.	Collection, Storage, Transportation, Disposal by selling to Authorized Recycler.
3.	Used Oil	Plant machine ries	5.1	0.040 KL/Yr.	0.460 KL/Yr.	0.500 KL/Yr.	Collection, Storage, Transportation, Disposal by selling to Authorized Recycler.

3. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
4. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
5. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
6. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
7. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
8. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
9. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
10. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
11. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
12. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
13. ETP sludge, process inorganic salt shall be disposed off to the TSDF.

**(G) Green Belt**

1. Unit proposes to do extensive plantation in 3445 m<sup>2</sup> area. Overall greenbelt area will be 33% of the total area of the project.
2. The green belt of 5-10 m width shall be developed near the total project area, mainly along the plant periphery, in downward wind direction and along road

sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department.

3. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the EIA 3750 m<sup>2</sup> area which will be 33% of total land area of project. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

**(H) Safety, Public hearing and Human health issues**

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

**(I) EMP & Corporate Environment Responsibility**

1. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for

- standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
2. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
  3. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
  4. The proposed EMP cost is Rs. 33.00 lakhs and 12.00 lakhs/year as recurring cost.
  5. Under CER activity, capital cost is Rs. 02.00 lakhs proposed for different activities as follows:

SN	Activities	Years (Rs. In Lakhs)	Total Budget (Rs. In Lakhs)
		1 <sup>st</sup> Year	
1.	Educational Activities (Award to Scholar students of School of Raokhedi Village.	0.5	0.5
2.	One health camp during monsoon season	1.0	1.0
3.	Trees Plantation along the road side of village	0.5	0.5
	Total	2.0	2.0

6. 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.
7. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

**X. Miscellaneous**

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

**17. Case No 8678/2021 Collector, District Administration, Dist. Gwalior, MP. Prior Environment Clearance for "New Township Thatipur (Government Facilities)" at Khasra No. 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226/1, 227, 228, 229, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254/1, 256/1, 257, 258/1, 259/1, 260/1, 265/1, 266, 267/1, 268/1, 269/1, 270/1 Total Plot Area : 1,05,842 Sq.M. Build Up area 58,468.66 Sq.M. Village - Mehra, Dist. - Gwalior (M.P.). Cat. – 8(a) Building Construction Project. Env. Consultant: M/s. ENVISOLVE LLP, Indore.**

This is case of Prior Environment Clearance for new township Thatipur (Government Facilities)" at Khasra No. 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226/1, 227, 228, 229, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254/1, 256/1, 257, 258/1, 259/1, 260/1, 265/1, 266, 267/1, 268/1, 269/1, 270/1 Total Plot Area : 105842 Sq.M. Build Up area 58,468.66 Sq.M. Village - Mehra, Distt. - Gwalior (M.P.). Cat. – 8(a) Building Construction Project.



The case was scheduled in 520<sup>th</sup> meeting dated 13/10/2021 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 case was presented by Env. Consultant Shri Shubham Dubey & Pradeep Chandanan from M/s. ENVISOLVE LLP, Indore and PP Shri Suryakant Sharma, EE in the 525<sup>th</sup> SEAC meeting dated 10-11-21. Wherein PP submitted that Proposed New Township Thatipur (Government Works) Gwalior under Re-densification Scheme of GoMP by Collector, District Administration, Gwalior, Madhya Pradesh.

During presentation following details of the project were presented:

<b>Project Proposal</b>	Environmental Clearance for Proposed New Township Thatipur (Government Works) Gwalior under Re-densification Scheme of GoMP by Collector, District Administration, Gwalior, Madhya Pradesh.
<b>Total Plot Area</b>	105842.38 sq.mt.
<b>Total Built up Area</b>	58468.66 sq.mt .
<b>Location of Project</b>	Khasra No. 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226/1, 227, 228, 229, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254/1, 256/1, 257, 258/1, 2w59/1, 260/1, 265/1, 266, 267/1, 268/1, 269/1, 270/1 Village Mehra, Tehsil City Center and District Gwalior, State: Madhya Pradesh.
<b>Expected Occupancy</b>	6699
<b>Geological Location</b>	Latitude 26°12'40.98"N Longitude 78°12'23.64"E
<b>Altitude of the Site</b>	204 m- 209 m
<b>Estimated Project Cost</b>	INR 200 crores

S.No.	Particulars	Proposed
1.	Net Plot Area	83305.59 sq.mt.
2.	Built up area	58468.66 sq.mt.
3.	Ground coverage	Permissible Ground coverage @30% =24991.67 sq. mt. Proposed Ground coverage @21.44% =17864.62 sq. mt.
4.	Total units in Govt. Quarters	E Type – 30 (4 BHK), NGO Type (2 BHK) – 16, F Type (2 BHK) – 80, G Type (2 BHK) – 288, H Type (1 BHK) – 240, I Type (1 BHK) - 144 <b>Total- 798</b>
5.	Govt. Higher Secondary School	1 No.
6.	Govt. Offices Complex	1 No.
7.	Community Centre	1 No.
8.	Temple Complex	1 No.
9.	Land area details	Total land area = 105842.38 SQ.M. Area under 30 M wide coordination road = 21583.63 SQ.M. Area under road widening (24 M wide road) = 953.16 SQ.M. Net plot area = 83305.59 SQ.M. Permissible ground coverage @ 30% = 24991.67 SQ.M. Proposed ground coverage @ 21.44%= 17864.62 SQ.M. Permissible built-up area @ 1.5= 124958.38 SQ.M. Proposed built-up area = 58468.66 SQ.M.
9.	Parking	Open parking-276 Stilt parking-411 Basement parking- 0 Total-687
10.	STP capacity	670 KLD

11.	Total Solid Waste	3552 kg/ day
12.	Power Requirement	2653 KW
13.	DG set details	DG set of 30 KVA in 16 no, 62.5KVA in 1 & 100 KVA in 1 no.
12.	Water Requirement in KLD	Fresh Water: 419 KLD Flushing: 230 KLD Landscape: 62 KLD Sewage Gen: 565 KLD Treated water: 508.5 KLD

### **DETAILED LAND BREAK-UP**

Sl.No.	Land Use details	Area (Sq.m.)
1	Plinth Area	22437.00
2	Green Cover Area	8848.00 (10.62 %)
3	Open area	20265.00
4	Road Area	25439.59
5	others	6316.00
6	Total (Sq.m.)	83305.59

### **PROPOSED PARKING**

Parking	Particulars	Area (Sq.M)	No. of ECS
Open Parking	Proposed Parking @ 25 Sqm/ ECS	6902	276
<b>Covered Parking</b>			

Stilt Parking	Proposed Parking @ 30 Sqm/ ECS	12340.28	411
<b>Total</b>		19242.28	<b>687</b>

## WATER BALANCE

S. No.	Particulars	Occupancy/ Area	Rate of water demand	Water Requirement (KLD)		Total
				Domestic (Fresh Water)	Flushing (Recycled Water)	
1.	Residential units	3990	135 lphd	359.10	179.55	538.65 ~ 539
2.	Office	210	45 lphd	5.25	4.20	9.45 ~ 9
3.	School	2100	45 lphd	52.50	42.00	94.50 ~ 94
4.	Visitors	399	15 lphd	1.99	3.99	5.99 ~ 6
5.	Horticulture	8848 m <sup>2</sup>	7 L/m <sup>2</sup>	-	-	61.93 ~ 62
	<b>Total</b>	-	-	418.85 Say 419 KLD	229.74 Say 230 KLD	710.52 Say 711 KLD

- Proposed units for construction are given below:

Total units in Govt. Quarters	E Type – 30 (4 BHK), NGO Type (2 BHK) – 16, F Type (2 BHK) – 80, G Type (2 BHK) – 288, H Type (1 BHK) – 240, I Type (1 BHK) - 144 Total- 798
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During presentation PP further submitted that in the planning area 580 trees are existed out of this 79 of existing (dry trees) are proposed for uprooting at the time of construction and 392 trees shall be transplanted insitu (as far as possible near to the existing trees ). About 3290 compensatory trees will be planted for which MPH&IDB has already deposited amount to Forest Department and work is under progress. Apart from these, a tender for additional plantation of 500 trees is already floated by MPH&IDB. PP vide letter no. 1876 dated 18.05.2021 amount Rs. 4.7077 Lakh Paid to DFO Gwalior towards alternate Plantation of 800 Trees. PP vide letter no. 2802-06 dated 05.08.2021 amount Rs. 19.36 Lakh Paid DFO Gwalior for relocation of 3290

Trees. Committee recommended that since the proposed area is well within the city limit, thus to compensate the plantation, high density plantation shall be carried out for atleast 10,000 plants through forest department in an area of minimum 2.00 ha (preferably 5.00 ha) which in future will act as the green lungs area of the city. Committee further suggested that a committee shall be constituted by district administration to monitor the progress and compliance of this condition and shall visit the site atleast twice a year and its report shall be furnished to SEIAA with six monthly compliance reports.

For this proposed project, 20 structures including F type housing and PWD offices will be demolished in Phase-1. Demolition work will be contracted to third party for whom tenders are floated and generated C&D will be disposed off as per the prevailing rules in consultation with the municipal corporation. Committee suggested that being building is constructed within city limit, PP shall explore the possibility of green rating (minimum three star)

Committee after presentation and deliberation PP was asked to submit following information for further consideration of the project:

1. Complete species-wise inventory of tree existing within planning area with girth & height details and trees which will be uprooted and transplanted.
2. Commitment for development of high dense plantation of 10,000 trees through forest department in an area of minimum 2.00 ha (preferably 5.00 ha) with species wise plantation scheme and preference shall be given to the avian related tree species. (such as Gular & Pipal)
3. Details of measures proposed for Energy Efficiency.
4. Revised plantation species as suggested by committee (Neem, Phycus, Putranjiva, arika, Pinnata, Karanj, Bahunia, Kachnar etc) shall be submitted to SEAC.
5. Proposal for contribution to the Zoo (Gwalior) for animal wildlife health.

PP vide their letter dated 07/12/2021 has submitted the response on above queries on Ministry's Parivesh Portal, which was presented before the committee in the afternoon session. PP presented following points query reply are as given below:

- **Complete species wise inventory of trees existing within planning area with girth and height details and trees which will be uprooted and transplanted.**

PP submitted -the survey report prepared by forest department for complete species wise inventory of trees existing within planning area with girth and

height details and trees which will be uprooted and transplanted has been enclosed as annexure 1. There are total 698 no. of trees (vide letter no 4036 dated 27.09.2021) in which 72 trees will be transplanted for which PP has floated a tender & 68 trees will be felled down through the permission of DFO, Gwalior.

➤ **Commitment for development of high dense plantation of 10,000 trees through forest department in an area of minimum 2.00 Ha.**

PP Replied- Commitment for development of high dense plantation of 10,000 trees through forest department in an area of minimum 2.00 Ha MPHIDB (M.P. Housing and Infrastructure Development Board, Bhopal) has already allocated a total amount of Rs. 1,28,33,536 /- towards tree plantation and transplantation. Further, to this, we also agree to abide by your instruction for dense plantation of 10,000 trees on land that shall be reserved by local administration. MPHIDB shall allocate an approximate amount of Rs 60,00,000/- for plantation of 10,000 trees. The planted trees shall include Native RET species, as shall be proposed by forest department.

➤ **Details of measures proposed for energy efficiency.**

PP submitted -Details of measures proposed for energy efficiency are given in next slide same have been submitted in hardcopy for your ready reference.

➤ **Thermal Characteristics of the Building Envelope**

S.No.	Proposed with U & R Values	'R' Values (in Sq m. Deg C/ Watts )	'U' Values (in Watts/ Sq m. Deg C)	Solar Heat Gain Factor
01	WALL Brick wall (230 mm thick), both side thick sand cement plaster (12-18mm) with insulation	3.52	0.28	0.30
02	ROOF 200 mm RCC slab with mud phuska & clay tiles with 75 mm insulation	1.22	0.81	0.45

➤ **Revised plantation species as suggested by committee.**

PP submitted - We agree, plantation species has been revised as per the suggestion of the committee. Copy of awarded tender for plantation of trees (Agreement No. 0.2.2021-22, copy enclosed). With names of various species

like Karanj, Shisham, Mango, Jamun, Neem, Awala, Kathal, Ashok Pendula Plants, Bargad, Bael Patra, Pipal etc to be planted by us.

➤ **Proposal for contribution to the Zoo (Gwalior) for animal wildlife health.**

PP submitted - We agree to spend Rs 2,00,000/- (Rupees Two Lacs only) towards the animal wildlife health and habitat development at Gwalior Zoo in consultation with In-charge of Gwalior Zoo.

After presentation and submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for proposed new township Thatipur (Government Works) Gwalior, under re-densification scheme of GoMP at Khasra No. 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226/1, 227, 228, 229, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254/1, 256/1, 257, 258/1, 259/1, 260/1, 265/1, 266, 267/1, 268/1, 269/1, 270/1 Total Plot Area : 1,05,842.38 Sq.M. Build Up area 58,468.66 Sq.M. Village - Mehra, Dist. - Gwalior (M.P.). Cat. – 8(a) subject to the following special conditions:

**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 Chief Controller of Explosives, 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.
- ix. The project area shall be secure through boundary wall and excavated top soil shall not be used in filling of low lying area. The top soil shall be used for greenery development.

## **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. 18 Diesel power generating sets 30 kVA \* 16 nos. , 62.5 kVA\* 1 nos & 100 kVA\* 01 nos. proposed 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. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. 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 walls 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.
- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. 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.

- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG sets 30 kVA \* 16 nos. , 62.5 kVA\* 1 nos & 100 kVA\* 01 nos. 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.

### **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. The total water requirement during operation phase is 711 KLD out of which 419 KLD is fresh water requirement and 480 KLD will be the total recycled water generated, out of which 230 KLD recycled water will be used for flushing and 62KLD water will be used for horticulture.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured 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 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 previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous 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. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- 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. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fires water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. For rainwater harvesting, 06 recharge pits will be constructed for harvesting rain water. The total recharge capacity of these pits about 379.62 m<sup>3</sup>/hr .Mesh will be provided at the roof so that leaves or any other solid waste/debris will be prevented from entering the pit.
- xiv. The RWH will be initially done only from the roof top. Runoff from green and other open areas will be done only after permission from CGWB.
- xv. All recharge should be limited to shallow aquifer.
- xvi. No ground water shall be used during construction phase of the project.
- xvii. 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.
- xviii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring report.

- xix. Sewage shall be treated in the MBBR based STP (Capacity - **670 KLD**). The treated effluent from STP shall be recycled/re-used for flushing. AC makes up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xx. The waste water generated from the project shall be treated in STP of 670 KLD capacity (based on MBBR based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
- xxi. No sewage or untreated effluent water would be discharged through storm water drains.
- xxii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxiii. 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**

- 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, 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. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass

etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

- iv. Energy Conservation measures like installation of CFLs/LED's for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other renewable energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level /local building bye-laws requirement, which is higher.
- vi. 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. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

## **VI. Waste Management**

- i. Total waste 3552 Kg/day, this consist all types of wastes (as Organic waste 2486 Kg/day and non- organic waste 1066 Kg/day), Inert waste 355 Kg/day, E- waste 1134 Kg/Annum, and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iii. 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.
- iv. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (0.4 ton/day) shall be segregated into wet garbage and inert materials.
- 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 State 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 and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

## **VII. Green Cover**

- i. Total 1,000 trees shall be planted in the area of 8848.00 m<sup>2</sup> (10.62 % of total plot area ) within the project site & additional plantation of 10,000 trees as prescribed by the committee through Miyawaki technique in the minimum 2.00 Hect through the consultation with DFO. For which proposed Rupees 60 lacs in the EMP.
- ii. There are total 698 no. of trees (vide letter no 4036 dated 27.09.2021) in which 72 trees will be transplanted for which PP has floated a tender & 68 trees will be felled down through the permission of DFO, Gwalior.
- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. 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. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- v. 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. Total proposed Parking's arrangement for 687 ECS ( Stilt parking 276 ECS and 411 ECS for open parking).
- iv. 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.
- 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 labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, 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. 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.
- iii. 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.
- iv. 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.
- v. For Environment Management Plan PP has proposed Rs. 1000 Lacs as capital and Rs. 109 Lacs as recurring cost for this project.
- vi. For this project PP has proposed Rs 2,00,000/- (Rupees Two Lacs only) towards the animal wildlife health and habitat development at Gwalior Zoo in consultation with In-charge of Gwalior Zoo under Corporate Environment Responsibility (CER).

**XI. Miscellaneous**

- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- 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 State Expert Appraisal Committee (SEAC)
- 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. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- v. 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.

**18. Cases where PP has not submitted the desired information/pending since long/ remains absent from the SEAC meeting:**

Following cases were appraised in various SEAC meetings wherein online query/clarification was sought from PP but even after 30 days reply/response from the PP is awaited:

SN	Case No. Activity	SEAC Meeting details in which query/clarification was sought from PP
1.	Case No 8150/2021 M/s Venus Mining and Minerals, Partner, Shri Ravi Kumar Goyal, Hotel P.S. Residency Compound, Bypass Road, Dist. Shivpuri, MP - 473551, Prior Environment Clearance for Sand Quarry in an area of 5.10 ha. (35000 cum per annum) (Khasra No. 181), Village - Chhitipur, Tehsil - Karera, Dist. Shivpuri (MP)	503 <sup>rd</sup> SEAC meeting dated 22/7/21
2.	Case No 8619/2021 MA Vindhyavasini Stone Crusher, Partner, Shri Gaurav Rainval, 604, Satyam Residence, City Center, Dist. Gwalior, MP, SIA/MP/MIN/220903/2021 Prior Environment Clearance for Stone Quarry in an area of 1.280 ha. (23066 cum per annum) (Khasra No. 27/2, 33/1/4), Village - Harraha, Tehsil - Mauganj, Dist. Rewa (MP)	509 SEAC meeting dated 24/8/21
3.	Case No 7164/2020 Shri Dadai Singh Gond, Village - Sardaman, Tehsil - Hanumana, Dist. Rewa, MP, Prior Environment Clearance for Stone Quarry in an area of 4.50 ha. (97470 cum per annum) (Khasra No. 10/1/ka/1, 10/1/ka/2, 10/1/ka/3, 10/1/ka/4, 10/1/ka/5, 13/1, 13/2, 13/3, 13/4, 13/5), Village - Sardaman, Tehsil - Hanumana, Dist. Rewa	509 SEAC meeting dated 24/8/21
4.	Case No 8608/2021 Smt. Kamla Shivhare W/o Shri Santosh Shivhare, Dhuma, Lakhnadon, Dist. Seoni, MP - 480886 Prior Environment Clearance for Stone Quarry in an area of 4.0 ha. (50,000 cum per annum) (Khasra No. 296 Part), Village - Dharapatha, Tehsil - Lakhnadon, Dist. Seoni (MP)	514 SEAC meeting dated 21/9/21
5.	Case No 7607/2020 Shri Ravi Pratap Singh S/o Shri Jang Bhadur Singh, R/o Village - Heerapur, Tehsil - Shahgarh, Dist. Chhatarpur, MP Prior Environment Clearance for Stone Quarry in an area of 2.255 ha. (Expansion from 5002 to 69371 cum per annum) (Khasra No. 196P), Village - Mandhpur, Tehsil - Buxwaha, Dist. Chhatarpur (MP)	514 SEAC meeting dated 21/9/21
6.	Case No 8655/2021 Smt. Uma Paliwal W/o Shri Santosh Paliwal, 71, Gram - Tajkheda, Tehsil - Taal, Dist. Ratlam, MP - Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (Stone - 19400 cum per annum, Murrum - 10000 cum per annum) (Khasra No. 04), Village - Kharwakalan, Tehsil - Taal, Dist. Ratlam	516 SEAC meeting dated 23/9/21



7.	Case No 8649/2021 M/s Akash Granite, Prop. Shri Dinesh Chandra Gupta, Indira Nagar, Karbai, Dist. Mahoba, UP - 210424 Prior Environment Clearance for Stone Quarry in an area of 4.0 ha. (1,20,000 cum per annum) (Khasra No. 499), Village - Ghatahari, Tehsil - Gaurihar, Dist. Chhatarpur (MP) Environment Consultant : Globus Environment Engineering Service, Lucknow.	516 meeting 23/9/21	SEAC dated
8.	Case No 8652/2021 M/s Maa Jaya Serve Service Pvt. Ltd, House No. 236, Ward No. 25, Lakhanguva Nagar Parishad Satai, Dist. Chhatarpur, MP - 471408 Prior Environment Clearance for Stone & M-Sand Quarry in an area of 2.0 ha. (Stone - 12000 cum per annum, M-sand - 18000 cum per annum) (Khasra No. 86/1), Village - Dugariya, Tehsil - Rajnagar, Dist. Chhatarpur	516 meeting 23/9/21	SEAC dated
9.	Case No 8653/2021 M/s Mahakal Minerals and Constructions, Shri Jitendra Kumar Sharma, Village - Dugariya, Tehsil - Rajnagar, Dist. Chhatarpur (MP) Prior Environment Clearance for Stone & M-Sand Quarry in an area of 1.053 ha. (Stone - 3782 cum per annum, M-sand - 5673 cum per annum) (Khasra No. 529/2, 463/1), Village - Ghuravali, Tehsil - Bada Malhera, Dist. Chhatarpur (MP)	516 meeting 23/9/21	SEAC dated
10.	<b>Case No 7245/2020</b> M/s Tanisha Infracon Pvt. Ltd, B-64, Shaligram Tower, Near Sharon Park, Satellite Road, Ahmedabad, Guj. - 380015, <b>SIA/MP/MIN/66649/2020</b> Prior Environment Clearance for approval of Laterite Deposit in an area of 18.33 ha. (81770 cum per annum) (Khasra No. 1331, 1339, 1340) at Village- Tarnod, Tehsil- Suwasara, District- Mandsaur (MP)	518 meeting 08/10/21	SEAC dated
11.	<b>Case No 8666/2021</b> Smt. Boota Singh W/o Shri Rajdhar Singh, Village - Ramathan, Tehsil - Raghurajnagar, Dist. Satna, MP, Prior Environment Clearance for Stone Quarry in an area of 3.970 ha. (25000 cum per annum) (Khasra No. 966/2/KHA/1(P), 966/2/KA/1(P), 966/1/GA/1(P), 966/2/KA/3(P), 966/2/KA/2(P)), Village - Ramasthan, Tehsil - Raghurajnagar, Dist. Satna (MP)	518 meeting 08/10/21	SEAC dated
12.	<b>Case No 8689/2021</b> Smt. Mithlesh Singh W/o Shri Naval Singh, Village - Prakash Bamhouri, Tehsil - Gaurihar, Dist. Chhatarpur, MP, Prior Environment Clearance for Stone Quarry in an area of 6.659 ha. (400000 cum per annum) (Khasra No. 285), Village - Gumanpura, Tehsil - Chandla, Dist. Chhatarpur (MP)	518 meeting 08/10/21	SEAC dated
13.	<b>Case No 8601/2021</b> Shri Rajesh Pathak, Baihar Road, Dist. Balaghat, MP - 481111 Prior Environment Clearance for Sand Quarry in an area of 4.50 ha. (81586 cum per annum) (Khasra No. 24/1), Village - Chhindlai, Tehsil - Lalbarra, Dist. Balaghat (MP)	519 meeting 12/10/21	SEAC dated

Committee observed that PP of above cases have not submitted the desired information and cases are pending since long. In the entire above cases online query was raised through EDS. As per MoEF&CC OM dated 15/03/21 if:

*“the reply to EDS is not received on PARIVESH within 30 days, the proposal will be excluded from the pendency list shown on PARIVESH. However, the PP can relist the proposal through their respective login provisions, as and when they want to submit the EDS reply”.*

Recently, SEIAA vide letter no. 2590 dated 15/12/21 has communicated policy decision taken in their 694<sup>th</sup> meeting dated 26/11/2. According to the policy decision taken by SEIAA at point no.08 (SEAC should make final recommendations within 30 days for

*EC/ TOR).*

The committee deliberated on the above and was of opinion that if PP's are not submitting desired information even after 60 days of appraisal their cases may be recommended for delisting and respective case files may be sent to SEIAA for onward necessary action assuming that PP is not interested to continue with the project. If later on PP interested in continuing with the proposal, they shall request SEIAA for relisting with proper justification for the same.

**(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.
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 Neem, Babool, Safed Castor 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. Adequate provisions of water for irrigating plantation shall be made by PP.
36. 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 1/4<sup>th</sup> 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. Adequate provisions of water for irrigating plantation shall be made by PP.
  36. 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.
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. Adequate provisions of water for irrigating plantation shall be made by PP.
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- ‘D’**

**General conditions applicable for the granting of TOR**

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. During monitoring, photographs shall be taken as a proof of the activity with latitude & longitude, date, time & place and same shall be attached with the EIA report. A drone video showing various sensitivities of the lease and nearby area shall also be shown during EIA presentation.
3. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
4. An inventory of flora & fauna based on actual ground survey shall be presented.
5. Risk factors with their management plan should be discussed in the EIA report.
6. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
7. The EIA document shall be printed on both sides, as far as possible.
8. All documents should be properly indexed, page numbered.
9. Period/date of data collection should be clearly indicated.
10. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
11. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
12. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
13. Grant of TOR does not mean grant of EC.
14. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared. If consultant has engaged other laboratory for carrying out the task of monitoring and analysis of pollutants, a representative from laboratory shall also be present to answer the site specific queries.
15. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
16. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
17. All the necessary NOC's duly verified by the competent authority should be annexed.
18. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
19. The EIA report should clearly mention activity wise EMP and 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.
20. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
21. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.

22. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
23. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
24. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006. The issues raised in public hearing shall be properly addressed in the EMP and suitable budgetary allocations shall be made in the EMP and CER based on their nature.
25. Actual measurement of top soil shall be carried out in the lease area at minimum 05 locations and additionally N, P, K and Heavy Metals shall be analyzed in all soil samples. Additionally in one soil sample, pesticides shall also be analyzed.
26. 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.
27. PP shall submit biological diversity report stating that there is no adverse impact in- situ and on surrounding area by this project on local flora and fauna's habitat, breeding ground, corridor/ route etc. This report shall be filed annually with six-monthly compliance report.
28. The project proponent shall provide the mitigation measures as per MoEFCC's 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.
29. LPG gas shall be provided for camping labour under "Ujjwala Yojna .
30. 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).
31. 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 under taking interalia 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.
32. 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 2<sup>nd</sup> 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.
33. 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.
34. 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.
- ✓ 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 Garden) is proposed by PP, minimum 50 saplings be planted considering 80% survival.
- ✓ Adequate provisions of water for irrigating plantation shall be made by PP.

**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.**

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