

The 313<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 18 April, 2018 under the Vice-Chairmanship of Shri R. Maheshwari, for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Shri Prasant Srivastava, Member.

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

1. **Case No. - 5194/2016 Shri M. G. Chobey, O/o Engineer-in-Chief, M. P. Water Resources Department, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal (M.P.)-462003 Prior Environment Clearance for KARAM Medium River Valley and Hydroelectric Project at Village-Dhar/Kothida, Tehsil-Dharamपुरi, Distt.-Dhar (M.P.) Live Capacity- 40.53 MCM, Cultivable Command Area - 8746 ha., Catchment Area – 342.50 Sq km, Dam Lenth – 564 M, Spillway – 96 M, Maximum height of Dam – 52.10 M.**

This is case of Medium River Valley and Hydroelectric Project. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Dhar/Kothida, Tehsil-Dharamपुरi, Distt.-Dhar with Live Capacity- 40.53 Mcm, Cultivable Command Area - 8746 ha., Catchment Area – 342.50 Sq km, Dam Lenth – 564 M, Spillway – 96 M, Maximum height of Dam–52.10 M. The project requires prior EC before commencement of any activity at site.

**LOCATION DETAILS**

<b><u>S.No</u></b>	<b><u>Details</u></b>	<b><u>KARAM PROJECT</u></b>
1	Latitude	22 <sup>0</sup> 22' 4.7"
2	Longitude	75 <sup>0</sup> 29' 3.5"
3	State	Madhya Pradesh
4	District	Dhar
5	Tehsil & Block	Dharmपुरi

6.	River	Karam, a tributary of river Narmada
7.	Accessibility	At a distance of 50 km from Dhar.

**BRIEF DESCRIPTION OF THE PROJECT**

- Karam Irrigation Project is proposed on river Karam near Kothida village of tehsil Dharampuri, District Dhar located at Latitude 22<sup>o</sup>22'4.7" and Longitude 75<sup>o</sup>29'3.5".
- The Project is envisaged to have a live storage capacity of 40.53 MCM.
- 5.0 MCM has been reserved for drinking purpose for Dhar and Nalcha Block.
- Total CCA of the project is 8746 ha, benefitting 52 villages of Dhar District.
- Total cost of the project is Rs. 304.44 crores.

**NECESSITY & PROJECT BENEFITS**

- To provide irrigation facility in 8746 hectares of land.
- During summer season, the ground water table lowers down substantially and the region suffers from acute shortage of water.
- Creation of reservoir will result in recharge of ground water, improvement in the ecology and will have a great positive impact on the environment of the region.

**SITE SELECTION CRITERIA FOR PROJECT AREA**

<u>PARTICULARS</u>	<u>REMARKS</u>
Existing infrastructure	<ul style="list-style-type: none"> <li>• Rail Connectivity – Indore (110km)</li> <li>• NH Accessibility – Near Gujri village on NH-3 (12 km), Dhar on NH-59 (50 km)</li> <li>• Airport facility – Indore (110km)</li> </ul>
Resources Availability	<ul style="list-style-type: none"> <li>• Water– From Karam river, a tributary of river Narmada</li> <li>• Cement / Steel – Dhar (50Km.)</li> <li>• Metal – Village Nalcha (22 Km.)</li> <li>• Sand - From Karam river (25 Km.)</li> <li>• Soil for Earthen Dam – From the Submergence area (2-5 Km)</li> <li>• Human Resource for Masonry Work – Locally Available</li> </ul>

Environmental consideration (within 10 km radius from proposed project site)	<ul style="list-style-type: none"> <li>• No National Park/Wild Life Sanctuary/Biosphere Reserve.</li> <li>• No Eco sensitive zone</li> <li>• No Critically/ severely polluted areas</li> <li>• No Interstate boundary</li> </ul>
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**DETAILS OF SUBMERGENCE AREA**

Forest Land affected	:	126.36 Ha
Private Land	:	62.41 Ha
Government Land	:	63.95 Ha
Total	:	252.72 Ha

**HYDROLOGY (Approved by BODHI)**

<u>S.No</u>	<u>Particulars</u>	<u>Value</u>
<u>1.</u>	<u>Total Catchment area (sq.km)</u>	<u>342.50</u>
	<u>Intercepted Catchment area (sq.km)</u>	<u>166.68</u>
	<u>Net Catchment area (sq.km)</u>	<u>175.82</u>
<u>2</u>	<u>Average Annual Rainfall (mm)</u>	<u>724.41</u>
<u>3</u>	<u>Designed flood (SPF) (Cumecs)</u>	<u>5234.82</u>
<u>4</u>	<u>Net 75% dependable yield available (MCM)</u>	<u>42.07</u>

**RESERVOIR**

S.No	Particulars	Value
1.	Top of Bund Level, (m)	R.L. 316.00
2.	Maximum Water Level, (m)	R.L. 313.20
3.	Full Reservoir Level, (m)	R.L. 312.00
4.	Crest Level (m)	R.L. 302.00
5.	Dead Storage Level, (m)	R.L. 284.00
6.	Deepest River Bed Level, (m)	R.L. 264.00
7.	Top Width of Dam (m)	6.00
8.	Height of Dam, (m)	52.00
9.	Gross storage (MCM)	43.98
10.	Live storage (MCM)	40.53
11.	Dead storage (MCM)	3.44
12.	Length of main Dam, (m)	564.00

13	Length of Spillway, (m)	96.00
14	No. of spillway gates, (m)	5 numbers radial gates of size 10m X15m
15	Length of main gravity pipe canal(km)	17.24 Km (pressure Irrigation)

**WATER PLANNING**

- The crop water requirement for approved cropping pattern (by state Agriculture department) is computed by Modified Penman Method.
- Based on the crop water requirement, demand table is prepared for 30 years which provides monthly crop water requirement for all crops sown in the command area.
- Reservoir operation tables for 30 years are prepared with 75 % success, hence no shortage of water for irrigation.

**RESETTLEMENT AND REHABILITATION PLAN**

- ❑ There are 4 villages of Tehsil Dharmapuri namely Utawali, Bhaisakho Khurd, Bhaisakho Kalan and Lalgarrh are coming in full submergence and 04 number villages Kothida, Chowki (Tehsil Dharmapuri), Jamanda and Saray(Tehsil Dhar ) are coming in partial submergence.
- ❑ Provision for B-Land Rs. 49.55 Cr taken in the project.
- ❑ Resettlement & Rehabilitation (R&R) is being prepared in accordance with the guidelines of the “Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013”.

The case was presented by the PP in SEAC 278<sup>th</sup> meeting dated 14/06/2016 wherein it was recorded that this is for issuing of TOR to carryout EIA studies with site specific details. The committee after deliberations decided that following additional TORs along with standard TOR issued by the MoEF&CC:-

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.

2. PP should provide preliminary survey report as approx 50% of the area is forest land. Since project involves forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
3. If there is any mining activity in the area, same should be discussed in the EIA report.
4. As approximately 50% of the area under submergence in forest land, PP should provide proper justification for selection of site with details of alternative sites considered.
5. If the height of proposed dam is 50 meters, PP should explore the possibility of having mini hydel project.
6. Aerial distance of interstate boundary from the project duly verified by the competent authority site should be submitted.
7. Cost benefit analysis including environmental factors should be given in the EIA report.
8. Green belt plan and catchment area treatment plan be provided in the EIA report.
9. Inventory of existing trees and their management should be provided in the EIA report.

PP has submitted EIA vide letter no. 48 dated 12/03/2018 which was forwarded through SEIAA vide letter no. 1988 dated 23/03/2018.

The EIA was presented by the PP and their consultant wherein during presentation PP informed that the FC clearance stage II is issued vide letter no. 8-36/2017-FC dated 05.04.2018. After presentation, PP was asked to submit response on following issues:

1. Copies of compliance report of the Section 11 & Section 19 notice issued by Collector office.
2. As the project lies in Dhar district, whether any Scheduled Areas are being affected in the dam? If yes, complete details as per Govt. norms & rules shall be provided with NOC from concerned Gram Sabah.
3. Map showing the pipeline network, digging details, disposal of excavated soil and area proposed to be broken.
4. As discussed during presentation, Village -wise detailed list containing information's regarding land to be acquired, for each village number of houses to be displaced (PEPs), PEFs and number of tenants.
5. Detailed R&R estimation as per PEPs and PEFs separately for land, houses and rehabilitation.
6. How the Land compensation will be taken-up for PAF's?
7. Whether the Project involves minimum Submergence?
8. Any construction work has been taken-up at project site till date.
9. Location map (facilities & layout) for proposed R&R site.

10. Pre and post Land use of the dam construction project.
11. Budget for EMP in terms of capital and recurring.
12. Top soil management plan with vertical section of soil profile.
13. Green belt development plan on layout map with their number & species.
14. For the issues raised in the public hearing regarding R&R, a commitment should be given by PP that their settlement will be done as per the Govt. norms.
15. Copy of FC clearance obtained for this project.

**2. Case No. - 5200/2016 Executive Engineer, Office of Executive Engineer, Water Resources Department, Manawar Distt. – Dhar (M.P.) Prior Environment Clearance for Berkheda Medium Project" of Water Resources Department, Kukshi/Berkheda. Live capacity - 52.404 MCM, Cultivable Command Area – 9,900 ha, Catchment Area - 382.9 sq., Dam Length - 889.15 M, Spillway - 147.00 M, Maximum height of Dam - 36.68 M Ha. FoR- ToR ( River Valley Project)**

This is case of Medium River Valley and Hydroelectric Project. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Kukshi/Berkheda Distt.-Dhar with Live capacity - 52.04 MCM, Cultivable Command Area - 9900 ha, Catchment Area - 382.9 sq., Dam Length - 889.15 M, Spillway - 147.00 M, Maximum height of Dam - 36.68 M ha. The project requires prior EC before commencement of any activity at site.

**Location Details**

S.No	Details	BERKHEDA PROJECT
1	Latitude	22 <sup>0</sup> 21' 8.7"
2	Longitude	74 <sup>0</sup> 54' 44.9"
3	State	Madhya Pradesh
4	District	Dhar
5	Tehsil & Block	Kukshi
6.	River	Uri ,a tributary of river Narmada
7.	Accessibility	At a distance of 80 Km from Dhar.

**BRIEF DESCRIPTION OF THE PROJECT**

- ✘ Berkheda Irrigation Project is proposed on River Uri near Tole/Berkheda village of Tehsil Kukshi, District Dhar located at Latitude 22<sup>o</sup>21’8.7” and Longitude 74<sup>o</sup>54’44.9”.
- ✘ The Project is envisaged to have a live storage capacity of 52.40 MCM.
- ✘ 0.60 MCM has been reserved for drinking purpose for Kukshi Block.
- ✘ Total CCA of the Project is 9900 ha, benefitting 40 villages of Dhar District.
- ✘ Total cost of the project is Rs. 308.56 crores.

**Necessity & Project Benefits**

- ✘ **To provide irrigation facility in 9900 hectares of land.**
- ✘ **During summer season, the ground water table lowers down substantially and the region suffers from acute shortage of water.**
- ✘ **Creation of reservoir will result in recharging of ground water, improvement in the ecology and will have a great positive impact on the environment of the region.**

**SITE SELECTION CRITERIA FOR PROJECT AREA**

<u>PARTICULARS</u>	<u>REMARKS</u>
<u>Existing infrastructure</u>	<ul style="list-style-type: none"> <li>• <u>Rail Connectivity – Indore (110 Km.)</u></li> <li>• <u>NH Accessibility – Near Mangod NH59(65km) , khalghat NH3 (68km)</u></li> <li>• <u>Airport facility – Indore (110 Km.)</u></li> </ul>
<u>Resources Availability</u>	<ul style="list-style-type: none"> <li>• <u>Water– From Uri River , tributary of river narmada</u></li> <li>• <u>Cement / Steel – Dhar (80Km.)</u></li> <li>• <u>Metal – Baugh , Blackof Dhar (10 Km.)</u></li> <li>• <u>Sand - Hathini River 80 Km. from dam site</u></li> <li>• <u>Soil for Earthen Dam – From the Submergence area (2-5 Km)</u></li> <li>• <u>Human Resource for Masonry Work – Locally Available</u></li> </ul>
<u>Environmental consideration (within 10 km radius from proposed project</u>	<ul style="list-style-type: none"> <li>• <u>No National Park/Wild Life Sanctuary/Biosphere Reserve.</u></li> <li>• <u>No Eco sensitive zone</u></li> <li>• <u>No Critically/ severely polluted areas</u></li> <li>• <u>No Interstate boundary</u></li> </ul>

<u>site)</u>	
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**DETAILS OF SUBMERGENCE AREA**

Forest Land	:	32.49Ha
Private Land	:	261.52 Ha
Government Land	:	195.80 Ha
Total	:	489.81 Ha

**Hydrology (Approved by BODHI)**

S.No	Particulars	Value
1.	Total Catchment area (sq.km)	382.90
	Intercepted Catchment area (sq.km)	184.41
	NetCatchment area (sq.km)	198.49
2	Average Annual Rainfall (mm)	751.22
3	Designed flood (SPF) (Cumecs)	4985.38
4	Net 75% dependable yield available (MCM)	52.40

- Total catchment area of the river at dam site is 382.90 sq km. Intercepted catchment area is 184.41 sq km. This water is utilized in existing 17 nos. of minor tanks. Net catchment area for Berkhedda medium irrigation project is 198.49 sq km.
- 75% dependable yield is worked out as 52.40 MCM .
- Standard probable flood (SPF) has been worked out by Synthetic Unit Hydrograph approach (CWC, Sub zone, 3c) as 4985.38 cumecs.
- Dhar district is in Earthquake zone-III

**VILLAGES UNDER SUBMERGENCE**

- ❖ No Village is coming under full submergence.
- ❖ Partially Submerged Villages : 07 No., Tehsil Kukshi and Gandwani
- ✘ Total effected Population of villages : 684Nos ( ST 684, SC 0)



- ✘ Total effected No. of Families in villages : 168Nos (ST 168, SC 0)
- ✘ Number of Houses : 65 No.

### **RESETTLEMENT AND REHABILITATION PLAN**

- ☐ There are 07 number villages coming in partially submargance namely Tole, Bandhaniya, Pipari in tehsil Kukshi and Reharda, Kojakuwa, Kadwal, Mujalda in tehsil Gandhwani.
- ☐ Provision for B-Land Rs. 57.67 Cr. taken in the project.
- ☐ Resettlement & Rehabilitation (R&R) is being prepared in accordance with the guidelines of the “Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013”.

The case was presented by the PP in SEAC 278<sup>th</sup> meeting dated 14/06/2016 wherein it was recorded that this is for issuing of TOR to carryout EIA studies with site specific details. The committee after deliberations decided that following additional TORs along with standard TOR issued by the MoEF&CC:-

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
2. If there is any mining activity in the area, same should be discussed in the EIA report.
3. As area under submergence includes forest land, PP should obtain forest clearance and provide status in the EIA report.
4. Aerial distance of interstate boundary from the project duly verified by the competent authority site should be submitted.
5. Cost benefit analysis including environmental factors should be given in the EIA report.
6. Green belt plan and catchment area treatment plan be provided in the EIA report.
7. Inventory of existing trees and their management should be provided in the EIA report.
8. It was also suggested by the committee that PP should explore the possibility of reducing the submergence of forest area.

PP has submitted EIA vide letter no. 49 dated 12/03/2018 which was forwarded through SEIAA vide letter no. 1992 dated 23/03/2018.

The EIA was presented by the PP and their consultant wherein during presentation PP informed that they have obtained the FC clearance. After presentation, PP was asked to submit response on following issues:

1. Copies of compliance report of the Section 11 & Section 19 notice issued by Collector office.
  2. As the project lies in Dhar district, whether any Scheduled Areas are being affected in the dam? If yes, complete details as per Govt. norms & rules shall be provided with NOC from concerned Gram Sabah.
  3. Map showing the pipeline network, digging details, disposal of excavated soil and area proposed to be broken.
  4. As discussed during presentation, Village -wise detailed list containing information's regarding land to be acquired, for each village number of houses to be displaced (PEPs), PEFs and number of tenants.
  5. Detailed R&R estimation as per PEPs and PEFs separately for land, houses and rehabilitation.
  6. How the Land compensation will be taken-up for PAF's?
  7. Whether the Project involves minimum Submergence?
  8. Any construction work has been taken-up at project site till date.
  9. Location map (facilities & layout) for proposed R&R site.
  10. Pre and post Land use of the dam construction project.
  11. Budget for EMP in terms of capital and recurring.
  12. Top soil management plan with vertical section of soil profile.
  13. Green belt development plan on layout map with their number & species.
  14. For the issues raised in the public hearing regarding R&R, a commitment should be given by PP that their settlement will be done as per the Govt. norms.
  15. Copy of FC clearance obtained for this project.
3. **Case No. - 5423/2016 Executive Engineer, Water Resources Department, Division - II, Kelli, Distt.- Sagar, (M.P.) – 470235 ` Medium Irrigation Project, River – Parcel (ken Basin)Cultivable Command Area – 3200 ha, Catchment Area – 71.88 skim. Dam Length - 1350 M, Maximum height of Dam - 23 M Ha. Vill. - Bakshawaha, Teh. - Sagar, Distt. - Sagar, (M.P.)**

This is a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

**Location Details**

Sl.No.	Details	PARKUL PROJECT
1	Latitude	23°36'13''
2	Longitude	78°40'16''
3	State	Madhya Pradesh
4	District	Sagar
6	Block	Jaisinagar
7.	River	Parkul (A tributary of river Bewas which is a tributary of Ken.)
8.	Accessibility	At a distance of 61 Kms from Sagar.

**SITE SELECTION CRITERIA FOR PROJECT AREA**

<b><u>PARTICULARS</u></b>	<b><u>REMARKS</u></b>
Existing infrastructure	<ul style="list-style-type: none"> <li>• Rail Connectively – Sagar (61Km.)</li> <li>• NH Accessibility – Sagar (25 Km.)</li> <li>• Airport facility – Sagar (70 Km.)</li> </ul>
Resources Availability	<ul style="list-style-type: none"> <li>• Water– From Parkul River</li> <li>• Cement / Steel – Sagar (61 Km.)</li> <li>• Metal – Bilhera (25 Km.)</li> <li>• Sand - Narmada (100 Km.)</li> <li>• Soil for Earthen Dam – From the Submergence area (2-5 Km)</li> <li>• Human Resource for Construction Works – Locally Available</li> </ul>
Environmental consideration (within 10 km radius from proposed project site)	<ul style="list-style-type: none"> <li>• No National Park/Wild Life Sanctuary/Biosphere Reserve.</li> <li>• No Eco sensitive zone</li> <li>• No Critically/ severely polluted areas</li> <li>• No Interstate boundary</li> </ul>

**Necessity & Project Benefits**

- To provide Irrigation facility to 3200 hectares of land in draught prone area of Block Jaisinagar, Distt. Sagar
- During summer season, the ground water table lowers down substantially and the region suffers with acute shortage of drinking water.
- Creation of reservoir will result in recharge of ground water, improvement in the ecology and will have a great positive impact on the environment of the region.

**BRIEF DESCRIPTION OF THE PROJECT**

- Parkul Medium Irrigation Project is proposed on River Parkul, a tributary of river Bewas, near Bakshwaha village of Block :Jaisinagar, Tehsil:Sagar, District :Sagar located at Latitude 23°36'13'' and Longitude 78°40'16''
- The Project is envisaged to have a live storage capacity of 20.37 MCM.
- Abadi of only one Village “Bakshawaha” is coming under partial submergence, 40 houses/families are affected.
- Land compensation & R/R will be provided as per Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- Total CCA of the Project is 3200 ha, benefitting 19 villages of Dist. & Tehsil Sagar.

**Reservoir Data:**

<u>S.No</u>	<u>Particulars</u>	<u>Value</u>
1.	Top of Bund Level,	EL. 551.15 M
2.	MWL ,	EL. 549.15 M
3.	Full Reservoir Level,	EL. 548.65 M
4	Dead Storage Level,	EL. 540.00 M
5	Deepest River Bed Level,	EL. 528.15 M
6.	Top Width of Dam	6.00 M
7.	Height of Dam,	23.00 M
8.	Gross storage	22.77 MCM
9.	Live storage	20.37 MCM

10.	Dead storage	2.40 MCM
11.	Length of main Dam,	1350 M
12	Length of Spillway,	150.00 M
13	No. of spillway gates,	Ungated

**Canal Data (By Flow Irrigation)**

S No	Particulars	Length
1.	Length of Main Canal	20.88 Kms
2.	Distribution & Minor Network	30.00 Kms

**DETAILS OF SUBMERGENCE AREA**

Forest Land	: 38.98 Ha
Private Land	: 221.56 Ha
Government Land	: 125.46 Ha
Total	: 386.00 Ha

The case was presented by the PP in 283<sup>rd</sup> SEAC Meeting held on 26/10/16 for issuing of TOR to carryout EIA studies with site specific details. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Since project involves 38.90 ha forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
2. It should be discussed in the EIA report that if the proposed height of the dam is reduced by one meter how much submergence area and CCA will be reduced.
3. If there is any mining activity in the area, same should be discussed in the EIA report.
4. Cost benefit analysis including environmental factors should be given in the EIA report.
5. Green belt plan and catchment area treatment plan be provided in the EIA report.
6. Inventory of existing trees and their management should be provided in the EIA report.
7. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
8. The potential risks and threats associated with the dam when it reaches FTL to the **nearby villages** should be discussed in the EIA.

9. The submergence is quite high in relation to CCA. Hence, the committee will carry out site visit and may issue additional ToR if necessary.

During the site visit on 25<sup>th</sup> April 2017, a team of PP having **Executive Engineer, Water Resources Department, Division - II, Kesli, Distt.- Sagar**, Sri Nigam-Advisor WRD and EIA Consultant, DAS India Pvt. Ltd Lucknow (Mr. Atulesh Sr. Executive Environmental Manager) accompanied the SEAC Sub-committee.

### **OBSERVATIONS:**

1. The EIA consultant informed that the EIA study has been allotted to them on 22<sup>nd</sup> February, 2017. They have, so far, done only preliminary survey and are in the process of mobilizing monitoring work.
2. The proponent informed that the access route to dam site for movement of construction machineries etc does not pass through the forest area.
3. The application for FC is in the initial stage.
4. The SEAC Sub Committee did not find any evidence of project implementation / construction at the time of site visit. Hence there is no violation.
5. The SEAC subcommittee did not find any evidence of mining activity in the area for the proposed submergence.
6. The dam site / submergence is in between two small hillocks at quite good distance. The submergence is quite high in relation to CCA for want of reasonably good gorge. Even the submergence area is quite undulating reducing the storage quantity. The committee therefore emphasized up on the point No 2 of ToR recommended in 283<sup>rd</sup> SEAC meeting, i.e., *“It should be discussed in the EIA report that if the proposed height of the dam is reduced by one meter how much submergence area and CCA will be reduced”*. The PP/ consultant were asked to address this point in detail in a separate chapter in EIA report.
7. The SEAC subcommittee reiterated the points already given in ToR. Since the submergence is quite high in relation to CCA the issue of reducing proposed height of the dam by one meter be addressed in depth in EIA. However, no additional TOR to that already given in 283<sup>rd</sup> SEAC meeting is proposed.

The above site inspection report was placed before the committee in 289<sup>th</sup> SEAC meeting dated 28/04/2017 wherein after deliberations and discussions. Dr. U. R. Singh briefed all the members about the findings and recommendations of the subcommittee report. The committee after deliberations decided that the issues raised by the subcommittee should be communicated to the concerned PP's and same should be addressed with the EIA report.

**(B) INFORMATIONS SUBMITTED BY PP'S/ISSUES RAISED BY SEIAA**

PP has submitted EIA vide letter no. 677 dated 05/03/2018 which was forwarded through SEIAA vide letter no. 1994 dated 23/03/2018.

The EIA was presented by the PP and their consultant wherein during presentation PP informed that since the project involves forest land they have made the application for the FC clearance. After presentation, PP was asked to submit response on following issues:

1. Copies of compliance report of the Section 11 & Section 19 notice issued by Collector office.
  2. Map showing the canal network, digging details, disposal of excavated soil and area proposed to be broken.
  3. As discussed during presentation, Village -wise detailed list containing information's regarding land to be acquired, for each village number of houses to be displaced (PEPs), PEFs and number of tenants.
  4. Detailed R&R estimation as per PEPs and PEFs separately for land, houses and rehabilitation.
  5. Any construction work has been taken-up at project site till date.
  6. Location map (facilities & layout) for proposed R&R site.
  7. Pre and post Land use of the dam construction project.
  8. Budget for EMP in terms of capital and recurring.
  9. Green belt development plan on layout map with their number & species.
  10. For the issues raised in the public hearing regarding R&R, a commitment should be given by PP that their settlement will be done as per the Govt. norms.
  11. Copy of application filed for the FC clearance for this project.
  12. Monitoring photographs taken during EIA study.
4. **Case No. - 2128/2014 Head Government Relations (State), M/s Sun Pharmaceuticals Industries Limited 477117 Prior Environment Clearance for Proposed Bulk Drug and Intermediates at Plot No. HA-1, Ghirongi Industrial Area, Malanpur, Distt. – Bhind**

**(M.P.), Cat. – 5 (f) Synthetic organic chemicals. Env. Consultant: Envirotech East Pvt. Ltd., Kolkata.**

This is a bulk drug & intermediates manufacturing unit proposed in the Malanpur Industrial Area - Malanpur, Tehsil- Gohad Distt. - Bhind. The activity is mentioned at S.N. 5 (f) in the Schedule of the EIA Notification. Hence it requires prior EC before commencement of activity at site. The application has been forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the environmental impacts expected from the project. The salient features of the project were presented by the PP and his consultant before the committee in this meeting.

After deliberations proposed TOR was approved by the committee in the 167<sup>th</sup> SEAC meeting dated 10/01/2015 with inclusion of following points in the EIA study:

1. Provision of 'Green-belt' all around the periphery of the proposed plot to be made.
2. Details of fire-fighting system proposed with risk-assessment study and proposed on-site emergency plan.
3. Recent MSDS of all the raw materials / solvents to be furnished.
4. Lay-out of the Industrial Estate showing location of other industries, with inventory of the industries in 500 meters around the proposed plot.
5. Copy of Registration letter issued from the Industries Department.
6. Details of LNG connectivity with safety measures proposed in this regard.
7. DG-set details with air / noise pollution control details.
8. Justification for installing 03 boilers.
9. Design of Hazardous Waste Incinerator with inventory of hazardous wastes planned to be incinerated in the same. Air Pollution Control measures proposed with these incinerators to be furnished.
10. Worst case scenario with respect to water, air pollution and hazardous-waste generation to be presented. The mitigation measures to be detailed out, assuming that the entire plant is producing product(s) responsible for worst environmental scenario.
11. All vents to be connected to a common duct with ultimate safe disposal of the toxic fumes appropriate scheme in this regard to be furnished.
12. List of solvent with product-by-product solvent balance/ water-balance and material-balance to be included.
13. Explore the possibility of putting some device so as to monitor/detect the concentration of toxic fumes in the work-zone on continuous basis.
14. VOC's to be monitored and reported in the baseline AAQ data.
15. Other standard TORs' shall be applicable.



PP vide letter dated 04/11/2017 has applied for TOR validity extension alongwith from-1 which was forwarded by SEIAA vide letter no. 1228 dated 28/11/2017 and 1434 dated 29/12/2017.

This case was placed before committee in 305<sup>th</sup> SEAC meeting dated 16/01/2018 wherein it was recorded that: as validity of TOR of this case has expire on 9<sup>th</sup> January 2018 whereas PP vide letter dated 4.11.2017 has requested to extend the validity of TOR. The case was presented by the PP and their consultant wherein PP informed that they have applied for TOR validity extension in updated form-1 and change in name as now the plant is takeover by the M/s Sun Pharmaceuticals Industries Limited, Gwalior. PP further informed that there is no change in terms & condition of the existing TOR or plant layout and all the studies have been completed. PP further submitted that EIA will be submitted shortly and requested for change in name and TOR validity extension for one year.

Committee after discussion recommends extending the validity of TOR for one year as per MoEF&CCING O.M No. J-11013/41/2006-IA-II (1) (part) GoI MOEF & CC dated 29/08/2017 and now valid till 08/01/2019 and change in name to M/s Sun Pharmaceuticals Industries Limited, Gwalior as PP has submitted revised from-1.

PP has submitted EIA vide letter dated 22/03/2018 which was forwarded through SEIAA vide letter no. 2022 dated 28/03/2018 which was placed before committee.

The case was presented by the PP and their consultant wherein after presentation, PP was asked to submit response on following:

1. Fly ash disposal plan generated from the boilers.
2. Commitment of PP for minimum 98% recovery of solvents.
3. Detailed drawings and designs of ETP and STP.
4. Rain water harvesting scheme for this project.
5. The flow diagram of proposed incinerator in minimum A3 size paper.
6. Since ground water drawl is proposed, copy of online application made to the CGWB shall be submitted.
7. Revised EMP with inclusion of PPE's cost.
8. Green belt plan with number of species and total green belt area proposed.
9. Commitment for "Zero Liquid Discharge" Unit.

PP vide letter dated 18/04/2018 has submitted the reply of above queries which was found satisfactory and acceptable to the committee. Hence the case is recommended for grant of prior EC for proposed Bulk Drug and Intermediates at Plot No. HA-1, Ghirongi Industrial Area, Malanpur, Distt. – Bhind (M.P.), subject to the following special conditions:

1. The EC shall be valid for following products and given capacity:

<b>Sr. No</b>	<b>Name of product</b>	<b>Capacity in TPA</b>
1	<b>TINIBS</b> (Like Crizotinib, Dasatinib Monohydrate, Tamatinib, Nilotinib Hydrochloride Monohydrate, Pazopanib Hydrochloride, Ponatinib HCl, Regorafenib, Ruxolitinib Phosphate, Sorafenib Tosylate, Sunitinib Malate and Carfilzomib etc.)	<b>10</b>
2	<b>Pantethine</b>	<b>100</b>
3	<b>Synthetic/Semi-synthetic Bulk Drugs</b> (like Esomeprazole Magnesium by Route 1 & 2, Fluvastatin and Valacyclovir HCl etc) and its intermediates	<b>300</b>
4	<b>Levofloxacin/ Ofloxacin</b>	<b>100</b>
5	<b>Loxoprofen Sodium</b>	<b>100</b>
6.	<b>Tenofovir</b>	<b>100</b>
	<b>Total</b>	<b>710</b>

**(A) PRE-CONSTRUCTION PHASE**

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

**(B) CONSTRUCTION PHASE**

6. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
7. Fire extinguishers should be provided on site during construction/ plant erection period.
8. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.

9. Waste construction material should be recycled as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
10. 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 150 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. MSW of various labours generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
12. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
13. The total water requirement during construction phase of the proposed project is 22.5 KLD.

**(C) POST CONSTRUCTION/OPERATIONAL PHASE**

14. Total water requirement during operation phase of the project is 1035 KLD, out of which 628 KLD will be fresh water requirement and 407 KLD will be recycled water requirement.
15. Sewage treatment Plant of 72 KLD has been proposed to treat domestic wastewater. The treated water will be reused for landscaping and flushing purpose.
16. The total power requirement for project will be 12000 kVA. The power will be supplied by Madhya Pradesh Electricity Board, Gwalior.
17. No industrial effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.
18. The spent solvents, organic incinerable wastes/residues, used filter bags, packaging materials, rejected/expired raw materials and off specification/ rejected finished products from the manufacturing plants shall be directly sent to the hazardous waste incinerator for thermal destruction.
19. Incineration of wastes only from Tinib production shall be incinerated in the captive incinerator and all the other hazardous wastes shall be incinerated and disposed of in the CTSDF, Pithampur, Dhar. The incinerator should be designed and operated as per CPCB standards and generated ash shall also be disposed off in CTSDF, Pithampur Dhar.
20. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.

21. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
22. If any Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
23. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
24. 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.
25. 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.
26. 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.
27. 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.
28. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
29. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
30. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
31. The expansion project should also be monitored through SCADA system for effective monitoring and data should be recorded for the compliance purpose.
32. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
33. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended, the Public Liability Insurance Act for handling of hazardous chemicals, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016 , MSIHC Rules 1989 etc.
34. 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.
35. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.

36. Ultrasonic/Magnetic flow/Digital meters shall be provided at all water abstraction points and records for the same shall be maintained regularly.
37. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

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

38. The Environment Monitoring Cost for Construction Phase is INR 3.30 lakhs and for Operation Phase is INR 6.36 lakhs.
39. The proposed EMP cost is Rs. 16.55 lakhs and Rs. 3.20 lakhs /year are proposed as recurring expenses during construction phase, and EMP cost is Rs. 2565.00 lakhs and Rs. 1839.50 lakhs /year are proposed as recurring expenses during operation phase out of which Rs. 50.00 lakhs is proposed for green belt development and Rs 5.00 lakhs /year for recurring expenses for plantation in the proposed EMP of this project.
40. Under CSR activity, Rs. 35.64 lakhs / year are proposed for the next 05 years in different activities and should be implemented through respective committees.
41. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored 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.
42. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
43. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
44. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
45. 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. - 5665/2018 Shri Vikash Jain, 127/1, Sangam Colony, Baldeobagh, Jabalpur, MP – 482002 Prior Environment Clearance for Stone Deposit Mine in an area of 6.0 Ha..**

**(25,000 cum per annum) (Khasra no. 50 (Part)) at Village- Pandajhir , Tehsil - Tendukheda, Dist. Damoh (MP)**

This is case of Stone Deposit Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 50 (Part) at Village- Pandajhir, Tehsil - Tendukheda, Dist. Damoh (MP) 6.00ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Office Collector, Distt. Damoh vide letter No. 259 dated: 28/11/2017 has reported that there are 01 more mine operating or proposed within 500 meters around the said mine with total area of 11.688ha including this mine.

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

1. Production of Stone as per mine plan with quantity not exceeding 25,000 cum/year.
2. The lease area should be clearly distinguished and earmarked at the site.
3. PP should explore possibility of using solar lights in office /rest areas.
4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
5. Approach road from site to the main road will be maintained by the PP.
6. Top soil shall be simultaneously used for the plantation.
7. A budgetary provision for Environmental management Plan of Rs. 7.90 lacks (capital) is made with a recurring expenditure of 1.35 Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 0.95 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

**6. Case No. - 5666/2018 M/s P.V.S.Infra Resources (I) Pvt. Ltd, 127/1, Sangam Colony, Baldeobagh, Jabalpur, MP – 482002 Prior Environment Clearance for Stone Deposit**

**Mine in an area of 5.688 Ha.. (26,000 cum per annum) (Khasra no. 63 (Part)) at Village-Pandajhir , Tehsil - Tendukheda, Dist. Damoh (MP)**

This is case of Stone Deposit Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 63 (Part)) at Village- Pandajhir, Tehsil - Tendukheda, Dist. Damoh (MP) 5.688ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Office Collector, Distt. Damoh vide letter No. 259 dated: 28/11/2017 has reported that there are 01 more mine operating or proposed within 500 meters around the said mine with total area of 11.688ha including this mine.

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

1. Production of Stone as per mine plan with quantity not exceeding 26,000 cum/year.
  2. The lease area should be clearly distinguished and earmarked at the site.
  3. PP should explore possibility of using solar lights in office /rest areas.
  4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
  5. Approach road from site to the main road will be maintained by the PP.
  6. Top soil shall be simultaneously used for the plantation.
  7. A budgetary provision for Environmental management Plan of Rs. 7.90 lacks (capital) is made with a recurring expenditure of 1.35 Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 0.95 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- 7. Case No. - 5606/2017 Mr. Ashvin Maru S/o Shri Satish Maru, Chota Bazar, Ward 13 Unhel, Tehsil - Nagda, Dist. Ujjain, MP – 456221 Prior Environment Clearance for Stone**

**Quarry in an area of 8.0 Ha. (98,800 cum per annum) (Khasra no. 574) at Village-Kundla, Tehsil - Nagda, Dist. Ujjain (MP).**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located (Khasra no. 574) at Village- Kundla, Tehsil - Nagda, Dist. Ujjain (MP) 8.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no.2206 dated: 09/10/2017 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 16.00 ha including this mine.

S. No	Particulars	Details		
1	Name of the project & its location:	<b>8.00 Hectare Kundla Stone Quarry Of Ashvin Maru S/o Shri Satish Maru At Vill.- Kundla, Teh.-Nagda, Dist.-Ujjain (M.P.)</b>		
2	Name of the Company, Address Tele No. & E-mail :	<b>Ashvin Maru S/o Shri Satish Maru Chota Bazar Ward 13 Unhel, Tehsil- Nagda, District- Ujjain (M.P.) 456221 ashwin2017maru@gmail.com Tele no. 9826062539</b>		
3.	Latitude and Longitude of the project	Pillar No.	N	E
		A	23°21'50.32"	75°29'38.64"
		B	23°21'51.63"	75°29'43.34"
		C	23°21'48.20"	75°29'44.08"
		D	23°21'46.02"	75°29'55.36"
		E	23°21'44.93"	75°29'55.99"
		F	23°21'44.87"	75°29'55.19"
		G	23°21'43.36"	75°29'55.73"
		H	23°21'43.41"	75°30'00.24"
		I	23°21'41.36"	75°29'56.69"
J	23°21'40.06"	75°29'40.90"		
4.	If a Joint venture, the names & addresses of the JV partners including their share	<b>Lease Owner</b>		



5	Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	<b>New Lease Area 8.00 Hect. Mineral – Basalt- Capacity : 98800 per year Lease Period- 10 Year (17-18 to 26-27)</b>
6	Whether the project is in the Critically Polluted Area (CPA):	<b>No.</b>
7	Cost of the project :	<b>14 lakhs (Approx.)</b>
8	Employment generated/to be generated:	<b>15-20</b>
9	Benefits of the project:	<b>It's a mine of Basalt mineral.</b>
9	Whether new or expansion project. If expansion: (i) from ..... MT to ..... MT (ii) ii What is the % of expansion	<b>It's a new project.</b>
10	If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006.	<b>No</b>
11	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	<b>No</b>
12	No. and Date of the ToR /and revised ToR, if any, letter issued by the authority.	<b>N.A.</b>
13	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	<b>N.A.</b>
14	If the project was considered in EAC, Pl. gives dates of the meeting (s).	<b>No</b>
15	Type of Mine: (Open	<b>Open cast Mine</b>

	cast/Underground/mixed)	
16	Capacity of the mine applied for	<b>8.00 Hect.</b>
17	ML Area i. As per block allotment ii. As per approved mine plan	<b>8.00 Hect.</b>
18	Date of approval of mine plan, mine closure plan, status & date	<b>Approval Letter no. 1853 Date..4.09.2017</b>
19	Date of Board's approval:	<b>No</b>
20	Date of Ground water clearance:	<b>No</b>
21	Date of mine closure approval	<b>Approval Letter no. 1853 Date..4.09.2017</b>
22	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost	<b>Details of EMP &amp; CSR is given below:</b>

<b>Cost of EMP</b>				
<b>Sr. No.</b>	<b>Environmental Management</b>	<b>Details of expanses</b>	<b>Capital Cost (Consolidated Expenses for Five Years)</b>	<b>Expenses per year (in Rs.)</b>
<b>1.</b>	<b>EMP Cost</b>	<b>Production cost @ Rs. 200 / cu.m.  Total production cost = Rs. 19760000 (98800 m<sup>3</sup>)  EMP cost = 3 % of total production cost</b>	<b>1880000.00</b>	<b>592800.00</b>
<b>a</b>	<b>Dust suppression</b>	<b>Water cost = @ Rs. 300 / tanker * 3 * 240 days</b>	<b>1080000.00</b>	<b>216000.00</b>
<b>b</b>	<b>Development of green belt area</b>	<b>Budgetary provision for plantation &amp; its maintenance @ Rs. 500 / plant * 200</b>	<b>500000.00</b>	<b>100000.00</b>

		plants		
c	Environment Monitoring	Annual monitoring cost ( six monthly basis one sample of Air/Water/Noise Level) @ Rs. 30000	300000.00	60,000.00
D	Development/ Maintenance of Road	Approach Road upto 750 mtrs @200/meter	Nil	1,50,000.00
d	Reclamation/R ehabilitation	Not Require	Nil	Nil
e	Miscellaneous		Nil	66800.00
<b>Total</b>			<b>1880000.00</b>	<b>592800.00</b>

<b>Cost of CSR</b>			
<b>Sr. No.</b>	<b>CSR Activities</b>	<b>Details of expenses</b>	<b>Expenses per year (in Rs.)</b>
1	Total CSR budget	Total production = 98800 cu.m. Profit per cu.m.=Rs. 100 = Rs. 9880000 Budget for CSR @ 2 % of the total profit	197600
a.	Education for children and old people of nearby villages along with the awareness training camp for the advance agricultural techniques like	40 % of annual CSR budget	79040

		drip irrigation			
	b.	IT education camps and distribution of computers.	30 % of annual CSR budget	59280	
	c.	Health camps	15 % of annual CSR budget	29640	
	d.	Energy conservation awareness through distribution of solar lamps.	15 % of annual CSR budget	29640	
	<b>Total</b>			<b>197600</b>	
23	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions.		<b>Details are given below:</b>		
	<b>A</b>	<b>B</b>	<b>C</b>		<b>D</b>
	<b>Year</b>	<b>Plantation during the year (No. of saplings)</b>	<b>Area covered during the year in m<sup>2</sup></b>	<b>Survival rate%</b>	<b>Remarks location/ Species</b>
			<b>BARRIER ZONE</b>	<b>Green belt Nos./area (Sqm)</b>	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2017-18	200	600	200/600	80
	2018-19	200	600	200/600	80
					Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos.,

						Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2019-20	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2020-21	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2021-22	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2022-23	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2023-24	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2024-25	200	600	200/600	80	Neem -40 Nos.,

						Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2025-26	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	2026-27	200	600	200/600	80	Neem -40 Nos., Sissoo-40 Nos., Mango-40 Nos., Awala-40 Nos., Kachnar-40 Nos. Plantation @ 1/3 m <sup>2</sup>
	Total	2000	6000 m <sup>2</sup>	2000/6000	80	
24	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.			<b>No</b>		

The case was presented by the PP and their consultant in the 301<sup>st</sup> SEAC meeting dated 21/12/2017 wherein it was recorded that PP has requested that their project be considered as B-2 category for following reasons:-

1. The production capacity is 98,800.00cum/year.
2. Being stone query, only occasional blasting is proposed thus ground vibrations are envisaged.
3. No environmental sensitive issues are observed which may be affected by the virtue of dolomite mining.
4. The nearest habitation is 1.5 Kms away.
5. No first order stream is passing through the lease area.

6. No ground water intersection is envisaged from the proposed mining hence no impact on hydro-geological aspects.

The committee after presentation decided that since 02 other mines are located within 500 meters and total area comprises is 16.0ha thus PP should submit a comprehensive EMP through QCI/NABET **accredited** consultant addressing following issues:-

1. Management and disposal plan of OB.
2. One month monitoring should be carried out for air, water and noise pollutants.
3. Transportation and evacuation plan of minerals considering production volume of all the mines within 500 meters radius.
4. Existing scenario of site should be discussed in the EMP in detail.
5. EMP should be supplemented by the recent photographs of the site.

PP has submitted the vide letter dated 28/02/2018 which was forwarded through SEIAA vide letter no. 2033 dated 31/03/2018 which include **revised form 1, Comprehensive EMP, Photocopy of Mine Plan and transportation & evacuation map**. In the revised Form 1, along with stone (Basalt): 98,800 Cu.m./annum, Murum is also added: 1,19,000 Cu.m./annum.

The case was presented by the PP and their consultant. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 98,800 cum/year & Murum 1,19,000 Cu.m./annum.
2. The lease area should be clearly distinguished and earmarked at the site.
3. PP should explore possibility of using solar lights in office /rest areas.
4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
5. Approach road from site to the main road will be maintained by the PP.
6. Top soil shall be simultaneously used for the plantation.
7. A budgetary provision for Environmental management Plan of Rs. 18.80 lacks (capital) is made with a recurring expenditure of 5.928 Lacks. Under CSR Rs. 1.976 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

**8. Case No.-5653/2018 Shri Jeewan Singh Rajput, Chiklli, Tehsil - Udaipura, DIst. Raisen, MP Prior Environment Clearance for Basalt Stone Quarry in an area of 7.340 Ha.. (56,800 cum per annum) (Khasra no. 94/1) at Village- Chhind , Tehsil - Udaipura, Dist. Raisen (MP)**

This is case of Basalt Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 94/1) at Village- Chhind, Tehsil - Udaipura, Dist. Raisen (MP) 7.340 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 468 dated: 08/6/2015, has reported that there are 03 more mine operating or proposed within 500 meters around the said mine with total area of 17.15 ha including this mine.

Earlier this case was scheduled in 309<sup>th</sup> SEAC meeting dated 23/03/2018 wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was presented by PP and their consultant and during appraisal it was observed that a water body (Talab) is about 160 meter in the north- east direction from the ML area thus garland drain with settling tank of suitable capacity be provided all around in the ML area as committed during presentation. It was also observed from the Google image that some hutments are in existence on the north side of the lease area at a distance of approx. 80 meters thus committee decided that 20 meters area shall be left as setback as non-mining area in the lease. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production of Stone as per mine plan with quantity not exceeding 56,800 cum/year.
2. The lease area should be clearly distinguished and earmarked at the site.
3. PP should explore possibility of using solar lights in office /rest areas.
4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
5. Approach road from site to the main road will be maintained by the PP.



6. A water body is about 160 meters away from the site thus garland drain with settling tank of suitable capacity be provided all around the ML area.
7. It was also observed from the Google image that some hutments are in existence on the north side of the lease area at a distance of approx. 80 meters thus 20 meters area shall be left as setback as non-mining area in the lease
8. Top soil shall be simultaneously used for the plantation.
9. A budgetary provision for Environmental management Plan of Rs. 5.00 lacks (capital) is made with a recurring expenditure of 2.75 Lacks. Under CSR Rs. 2.0 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

**9. Case No. 5521/17 Smt. Nandita Sharma, D-78, Vishnu Hightech City, Bhopal, and MP – 462010. (SIA/MP/MIN/62087/2017). Prior Environment Clearance for Stone deposit quarry in an area of 7.00 ha. (1,16,000 cum per annum) (revised mine plan for 9800 cum/year ) (Khasra no. 244) at Village- Kardai, Tehsil - Huzur, Dist. Bhopal (MP).**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 244) at Village- Kardai, Tehsil - Huzur, Dist. Bhopal (MP) 07.00 ha. The project requires Prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 2934 dated: 11/01/2017 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 15.50 ha including this mine.

The case was presented by the PP and their consultant in the 70<sup>th</sup> SEAC-II meeting dated 15/03/2017. During presentation it was observed by the committee that this lease is adjacent to another lease of an area of 5.50 ha (Case no.5522/2017). After presentation and discussion committee decided to obtain following information from the PP for further consideration of the project:

1. Details of Garland drain and settling tank with their dimensions on the surface map.
2. Revised Plantation Scheme at the barrier zone as suggested by the committee during presentation.
3. Transportation route marked on the Google Map.

4. Details of proposed blasting with their safety measures.

Earlier this case was scheduled in 297<sup>th</sup> SEAC meeting dated 08/11/2017 wherein it was recorded that: PP was also informed to submit above information vide Letter No. 222 dated: 31/3/17 and Reminder letter no. 477 dated: 29/6/2017 stating to submit information within 30 days. PP so far has not submitted the desired information's and the case were placed before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

SEIAA vide letter no. 1667 dated 16/02/2018 has forwarded this case file to SEAC as PP has submitted the desired information vide letter dtd 15.01.2018 therefore it has been relisted in 310<sup>th</sup> SEAC meeting dated 24/03/2018, wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was presented by PP and their consultant wherein PP also informed that they have submitted revised mine plan for 9800 cum/year stone excavation in SEIAA vide letter dated 12/12/2017. The query reply, EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special condition in addition to the standard conditions at annexure 'A':

1. Production of Stone as per mine plan with quantity not exceeding 9,800 cum/year.
2. The lease area should be clearly distinguished and earmarked at the site.
3. PP should explore possibility of using solar lights in office /rest areas.
4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
5. Approach road from site to the main road will be maintained by the PP.
6. Top soil shall be simultaneously used for the plantation.
7. A budgetary provision for Environmental management Plan of Rs. 3.50 lacks (capital) is made with a recurring expenditure of 1.75Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under

utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 2.00 lacks/year is proposed for various activities.

**10. Case No. 5522/17 Shri Basant Tiwari, A-3/104, Vishnu Hightech City, Bhopal, MP – 462010.(SIA/MP/MIN/62088/2017). Prior Environment Clearance for Stone deposit quarry in an area of 5.50 ha. (67,500 cum per annum) (Khasra no. 244 part) at Village- Kardai , Tehsil - Huzur, Dist. Bhopal (MP).**

This is case of Stone deposit quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 244 part) at Village- Kardai, Tehsil - Huzur, Dist. Bhopal (MP) 5.50 ha. The project requires Prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 2936 dated: 11-01/2017 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 15.50 ha including this mine.

Earlier the case was presented by the PP and their consultant 70<sup>th</sup> SEAC-II meeting dated 15/03/2017. During presentation it was observed by the committee that this lease is adjacent to another lease of an area of 7.00 ha (Case no.5521/2017). After presentation and discussion committee decided to obtain following information from the PP for further consideration of the project:

1. Details of Garland drain and settling tank with their dimensions on the surface map.
2. Revised Plantation Scheme at the barrier zone as suggested by the committee during presentation.
3. Transportation route marked on the Google Map.
4. Details of proposed blasting with their safety measures.

Earlier this case was scheduled in 297<sup>th</sup> SEAC meeting dated 08/11/2017 wherein it was recorded that: PP was also informed to submit above information vide Letter No. 208 dated: 31/3/17 and Reminder letter no. 475 dated: 29/6/2017 stating to submit information within 30 days. PP so far has not submitted the desired information's and the case were placed before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

SEIAA vide letter no. 1665 dated 16/02/2018 has forwarded this case file to SEAC as PP has submitted the desired information vide letter dtd 15.01.2018 therefore it has been relisted in 310<sup>th</sup> SEAC meeting dated 24/03/2018 meeting, wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was presented by PP and their consultant wherein PP also informed that they have submitted revised mine plan for 7,840 cum/year stone excavation in SEIAA vide letter dated 12/12/2017. The query reply, EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special condition in addition to the standard conditions at annexure 'A':

1. Production of Stone as per mine plan with quantity not exceeding 7,840 cum/year.
2. The lease area should be clearly distinguished and earmarked at the site.
3. PP should explore possibility of using solar lights in office /rest areas.
4. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
5. Approach road from site to the main road will be maintained by the PP.
6. Top soil shall be simultaneously used for the plantation.
7. A budgetary provision for Environmental management Plan of Rs. 3.50 lacks (capital) is made with a recurring expenditure of 1.75Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 1.50 lacks/year is proposed for various activities.

**10. Case No. - 5670/2018 Shri Maa Cimentech Pvt. Ltd, Shri Dileep Gupta, 158, 3rd Floor, Zone-II, M.P.Nagar, Bhopal MP – 462011 Prior Environment Clearance for Granite Deposit in an area of 11.0 Ha.. (33,501 ton per annum) (Khasra no. Part 63) at Vill. Barha, Teh. Gaurihar, Dist. Chhatarpur, (MP)**

This is case of Granite Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. Part 63) at Vill. Barha, Teh. Gaurihar, Dist. Chhatarpur, (MP) 11.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Assistant Mining Officer, Distt. Chhatarpur vide letter no. 2918 dated: 04/12/2017 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was presented by PP and their consultant. The salient features of the project were presented before the committees in this meeting are:

**SALIENT FEATURE OF THE PROJECT**

Name of mine	Barha Granite Deposit (11.0ha )
Project Proponent	M/s Shri Maa Cimentech Pvt. Ltd.
New mine/ existing mine	New mine and lease period – 30 years
Name of the mineral	Granite
Location of Project & Khasra No.	Khasara No. : Part of 63 Village – Barha, Tehsil-Gaurihar, Dist.- Chhatarpur (MP)
Lease area and Production	Area : 11.0 ha Production : 12642 m <sup>3</sup> per year
land use of lease area	Gov. Waste Land
No. of mine located with 500m radius	None
Elevation	182-150 m MSL
Surrounding features	East- Part of Hill Followed By Agricultural land West –Waste land followed By Agricultural land North –Agricultural land South –Waste land followed By Agricultural land

<b>Particulars</b>	<b>Details</b>
Type of Mine	Open Cast
Mining Lease Area	11.0 ha

Mineable Area	9.7715 ha
Existing Pits & Quarries	Nil
Existing Dumps	Nil
Infrastructure and road	Nil
Mineral Storage	Nil
Plantation	Nil
Total Movable Reserve	546008.00cum
Proposed Capacity	12642m <sup>3</sup> per year
Method of mining	OTFM
Ultimate Depth of Mining	18m bgl (132m MSL)
Expected Life of Mines	43 years
Lease Period	30 years
Existing mode to transportation	Road
Area to be covered under dumps in proposal period	Nil
Area covered under pit in conceptual period	9.7715 ha
Area to be backfilled by conceptual period	6.82 ha
Area to be rehabilitated by afforestation in CP	7.82 ha
Area to be covered under water reservoir	1.9515 ha
Ground water table	35m bgl (115m MSL) to 45m bgl (105m MSL)
Assumed per day production	43 M <sup>3</sup>
Per day dumper requirement with capacity	6 dumper per day, capacity Of dumper 7cum

**ENVIRONMENTAL SETTING OF THE PROJECT**

<b>Particulars</b>	<b>Details</b>
Locations	
Village	Barha, Tehsil- Gaurihar , Dist Chhatarpur (MP)
General ground level	182 m
Nearest State Highway	Sagar Road NH -86 - W - 28.00 km
Nearest Railway Station	Mahoba RS -32.00 km
Nearest Airport	Khajuraho -50.00 km
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
Reserved / Protected within 10km radius (Boundary to boundary distance)	Barigarh PF -8.00 km

Nearest major city with 100000 population within 10km radius	Nil		
Nearest Town / City within 10km radius	Gaurihar	- ENE	- 6.50 km
Nearest Village	Barha	- SE	- 0.60 km
Nearest River	Kail Nadi	- N	- 3.75 km
	Chhci Nadi	-WNW	- 1.25 km
	Suraha Nadi	- E	- 3.75 km
	Kusiyaar Nadi	- SE	- 9.00 km
	Jabra Nadi	-SSE	- 9.25 km
Nearest Nalla/pond/canal	Village Pond	-E	- 0.50 km
	Village Pond	- SW	- 0.75 km
	Village Pond	- SE	- 1.00 km
	Sai Tal	- NE	- 0.75 km
	Village Pond	- ENE	- 1.00 km
	Hiral Tal	-SW	- 4.75 km
	Dikshit Tal	- SW	- 5.00 km
	Bhadariya Tal	- ENE	- 5.25km
	Kishori Tal	- NE	- 5.50km

<b>Summarised of geological reserves and mineable reserves</b>	
<b>Particulate</b>	<b>Details</b>
Total probable reserve - 332	3721090.00 m <sup>3</sup>
Total probable reserves (332) x 20% granite	744218.00 m <sup>3</sup>
Mineral block under ore blocked in barrier zone area - 1638x 7.5x 30x 20%	73710.00 m <sup>3</sup>
Mineral block under ore blocked in slope -415x 1500m x 20%	124500.00 m <sup>3</sup>
Total blocked minerals - 222 = 73710+124500	198210.00 m <sup>3</sup>
Balance probable reserve - 122 = 744218- 198210	546008.00 m <sup>3</sup>
Proposed production capacity	12642.00 m <sup>3</sup>
First five year production	61030.00 m <sup>3</sup>
Balance reserves = 546008 - 61030	484978.00 m <sup>3</sup>
Hence mine life - balance Reserve /Production = 484978/12642 = 5+38.36	43.36 say 43 years

**MINING METHOD**

- Proposed mining method is Block Mining by adopting the Gali Toda method by using help of wire saw, LD-4, Jack Hammer, Hydraulic Jack, Compressor, Tata Hitachi Shovel excavator and Crane.
- The individual bench faces will be kept nearly vertical (80° - 85°) while the pit slope will be less than 45°.
- The Area will be developed from ARL 178m to 136m and by the end of five years, there will be 6-7 benches of 5-6m avg. height each. Width of benches will be as per DGMS requirements and not less than the height where as Granite bench length will be as per production requirements
- During this proposal period, the applied area will be developed with one single quarry i.e. 1.6458 ha and at the end of conceptual period about 9.7715 ha will be developed with ultimate depth upto 132m MSL.

**YEARWISE PRODUCTION DETAILS**

Year	ST 1			ND 2	rd 3	TH 4	TH 5	
	Slice 1	Prod. B1	Prod. B2*	Prod. B3	Prod. B4	Prod. B5	Prod. B6	Prod. B7
Avg. Area of excavation m <sup>2</sup>	4100	7100	10367	11775	13155	10535	8185	6104
	2.5	3.0	3.0	5.0	4.5	6.0	6.0	2.0
Avg. Ht. Of excavation m	10250	31101	31101	58875	59197	63210	49110	12208
Volume m <sup>3</sup>	8200	24881	24881	47100	47358	50568	39288	9766
Mine waste 80% in m <sup>3</sup>	2050	6220	6220	11775	11839	12642	9822	2442
Granite 20% in m <sup>3</sup>								
Avg. MRL - M	178-174	174-168	168-162	162-156	156-150	150-144	144-138	138-136
Stripping ratio	1:4.0			1:4.0	1:4.0	1:4.0	1:4.0	
Mine waste in m <sup>3</sup>	50121			47100	47358	50568	49504	
<b>Total production -m<sup>3</sup></b>	<b>12530</b>			<b>11775</b>	<b>11839</b>	<b>12642</b>	<b>12264</b>	



**PRINCIPLE OF BLOCK MINING**

- ✓ Selection of suitable block which has physical quality color, grain size, polish behavior with the diamond tools and concern block should be without cracks and fractures.
- ✓ The principle of block mining is to get three free faces known as the Gali (along the strike) and Toda (across the strike). The basic purpose to prepare the Gali and Toda is to get proper space for block cutting in L shape (combination of Gali and Toda) therefore first Gali and then Toda is developed which is localized for proper functioning of wire saw machine approximately 3 - 6 m space.
- ✓ After getting the L shape vertical and horizontal hole, required depth or height of the bench then making the thread alignment in the rectangular shape the holes are drilled with LD-4 portable DTH drill machine. After getting the bore hole drilled then diamond wire saw machine to cut the bottom with diamond pearls followed by both vertical cuts making rock free from all the sides and now this block is pushed with help of pneumatic bags or water bags with hydraulic jack 'Power jack' and cut down blocks are lifted to the surface by crane or pock land machine and waste material is kept at required places with the help of dumpers/ tractors..

**CONCEPTUAL PLAN**

Sr. No	Land Use	Present (Ha)	Conceptual period (Ha)
1.	Pit	Nil	9.7715
2.	Dumps	Nil	Nil
3	Infrastructure & Roads	Nil	Nil
4	Mineral storage	Nil	Nil
5	Plantation Area	Nil	1.00
6	Un worked area	11.00	0.2285
	<b>Total</b>	<b>11.00</b>	<b>11.0</b>
1	Reclamation	Nil	6.82
2	Plantation	Nil	7.82 (15640 no.)
2.1	Backfilled area	Nil	6.82 (13640 no.)
2.2	Un-worked area	Nil	1.00 (20000)
2.3	Bench	Nil	Nil
3	Water body	Nil	1.9515

**Water management**

- There is no water course in the lease area. The water table is quite below in proposed five year and conceptual working hence there will be no impact on ground water.

- The water table goes down 103m MSL i.e. 45 meters below surface during summer and 35 m bgl during rainy season. At the end of the lease period, the working is likely to reach to 132 m MSL i.e. 18 mt bgl. Therefore, the water table will not be intersected during working hence hydrology of the area will not have impact. Proposed water body of 1.9515 ha will further help in water recharging of the area
- The generated waste need to be utilized for backfilling purposes on concurrent basis.
- Quality of water at proposed water body and discharge point should be checked for pre monsoon and post monsoon period.
- Agricultural fields have also been observed in the vicinity of the lease, the accumulated water may be given to the farmers in case of demand
- The Granite does not contain any toxic element which is likely to cause surface/ground water pollution. Mining operation will not pose any problem to general water table of area.
- Proposal of settling tank: During the rainy or post monsoon season the collected water within the pit will be passed through the settling tank to suspend heavy particles then this discharge water will be drain to agriculture land/ nala.
- The garland drain will be provided around the dump, whatever washes off from higher altitude area then it will be further drained to settling tank to suspend if any heavy particles then it will be drained to nearby agriculture field or nala.
- Following measures are proposed to control the water pollution
- Drains with retaining wall are proposed along the tow of hillock towards agricultural land and habitation.
- Garland drain is also proposed in progressive manner around the dump
- Pump of adequate capacity will be installed for dewatering of working pit.
- Regular de-silting of settling tank is proposed
- The proposed drains will be connected to the settling tank. The said tank will be earthen type and will help in recharging of ground water as well as source of water supply to the farmer of the area
- Following drain are suggested for management of mine discharge and runoff

<b>Sr No</b>	<b>Number</b>	<b>Location</b>	<b>Size</b>
1	PGD_1	Along the tow of hill (BP-1 – BP-2)	272 mt L X 1.0mt D X 1.0m W
2	PGD_2	Along the tow of hill (BP-2 – BP-3)	176 mt L X 1.0mt D x 1.0m W
3	PGD_3	Along the tow of hill (BP-3 – BP-4)	320 mt L X 1.0m D x 1.0m W
4	PGD_4	Along the tow of hill (BP-4– BP-5)	180 mt L X 1.0m D x 1.0m W
5	PGD_5	Along the tow of hill (BP-5– BP-6- BP-7)	431 mt L X 1.0m D x 1.0m W
6	PGD_6	Along the tow of hill (BP-7- BP-8)	294 mt L X 1.0m D x 1.0m W
7	PGD_7	Along the tow of hill (BP-8– BP-9-BP-10)	784 mt L X 1.0m D x 1.0m W
8	PGD_8	Along the tow of hill (BP-10- BP-11)	765 mt L X 1.0m D x 1.0m W

**Source and quantity of water for dust suppression & green belt**

Spraying of water over haul road for Dust suppression Length of road - 700m , (6mt width) 700m X 6.0m = 4200 Sqm No. of tankers required - 01 Tanker capacity - 10.0KL	OB per day - 169 M <sup>3</sup> , dumper capacity - 10M <sup>3</sup> , working hr/day -9 hrs, dumper required per day - 17 no, movement per hr -17/9= 1.88 Say 2 no. per hr Water Requirement @ 1.0lit per Sqm Hence 4200sqm @1.0 lit = 4200 liter per trip One trip per hours of water tanker and 9 trip of water tankers per day =4.2 KL/trip X 9= 37.80 says 38KLPD
Spraying of water over Transport road for dust suppression Length of road -725 m, (6.0 mt width) 725 m X 6m = 4350 SQM No. of tankers required - 01 Tanker capacity - 10.0KL	Production per day -43 m <sup>3</sup> , dumper capacity - 7 m <sup>3</sup> , working hr/day -9 hrs, dumper required per day - 6 no, movement per hr - 6/9= 0.66 no. say 1 no. per hr Water Requirement @ 1.0lit per Sqm Hence 4332Sqm @1.0 lit = 4332.0 liter per trip (It is proposed 2dumper per two hrs movement of dumper on road) Three trip per day of water tanker Total water required per day = 4.3 KL/trip X 3= 12.9 or 13.0KLPD
Water requirement for green belt development	Plantation area 7.82ha (@1.0lit/sqm) avg. 10000sqm per day = 10.0KL/day
Domestic water requirement @45lit/person	Total worker - 30@45lit = 1.35 say 1.50 KL/day
Wire saw cutting	10.okl
Recycling from wire saw	7.okl
Total water required per day	Dust suppression -51kl Domestic use -1.50 kl Green belt development - 10.okl Wire saw - 3.0 kl Drilling - 3.okl Total -68.50KL
Water requirement per year	68.50@300 = 20550.00KL

**SOLID WASTE MANAGEMENT**

- Topographically of applied area is a part of hilly terrain and has moderately undulating.
- The production from ore zone is only 20%, hence mine waste is taken as 80% in the form of weathered granite.

- During the proposal period about 244201 cubic meter mine waste will be generated and same Waste will be dumped in Southern part of lease area, which will be cover about 1.2334 ha area with height of 19-20 m.
- At the end of conceptual period total 982929 cum mine waste (1939832 + 244201cum) will be generated and same will be used for backfilling of 6.82 ha area with depth of avg. 32 m.
- The land use pattern of lease area will be changed at conceptual period whereas change in land use pattern of buffer zone is not envisaged.
- During the proposal period, the generated mine waste i.e. unsized blocks will be used as minor mineral in future. In due course of time the applicant will apply for use of such siliceous waste material (Unsize Blocks) under minor mineral use mentioned in MPMMR 1996 and after getting the permission this siliceous waste material (Unsize Blocks) will put under crusher for desired size and sold to the end users. In the event of no such permission, it will be dumped in the applied area in eastern direction.

## **AIR ENVIRONMENT**

Following measures are proposed to mitigate the effect of mining operation over ambient air environment:

1. 17 dumper of OB will be moved on haul road in every hour during proposed operation. Hence one trip of water tanker in every hour (9 trip per day) is proposed
2. It is assumed that 43 m<sup>3</sup> of ore will be transported on per day basis through transport road (725 mt length- From lease area to pucca road) by dumper having capacity of 7M<sup>3</sup> capacity. It means that, there will be movement of only 02 dumper on road in every two hrs basis, one trip per two hours of water tanker and 3trip of water tankers per day
3. The periphery of 1575.0 mt shall be planted with two rows of trees. However further plantation shall be taken up on priority basis with provision of sampling of at least 3 ft height.
4. Approx 30no of workers will be worked in lease area. Dust mask is provided to all workers, but wearing of the same should be made compulsory
5. Regular maintenance of vehicles and machines will be carried out in order to control emissions
6. Water will be sprayed over the muck pile to reduced the dust generation;
7. During the drilling and wire saw cutting, water will be sprayed, to reduced the dust emission
8. Since blasting is proposed at small level on occasional basis and mining will be done by mechanized mean, water spraying and time bound green belt development will help to control the fugitive emission that may be caused by the dust.

## **AFFORESTATION PLAN**

- Proper handling of mineral and overburden will reduce fugitive emissions and hence minimal impact is expected on surrounding flora and fauna inclusive of agricultural species due to deposition of dust
- Proper implementation of green belt development programme as given in the report
- Aerial light and horning activities should not be allowed in the night to create disturbance even for the domestic and non scheduled faunal elements.

- Plants of large sized tree species will be planted at a spacing of 2.5m and between any two plants of large size tree, three (03) plants of small sized tree/shrub species, will be planted. The selection of species will depend on the availability of quality planting material. Following species will be planted both side of road:  
Large tree species: Mango, Neem, Jamun, Imli, Mahua, Gulmohar etc  
Small tree species: Karanj, Aonla, Amaltas, Bael, Sissoo, Kachnar etc

**Time Bound Plantation Programme**

Year	Area ( in sq mt )	Number of Plants
1 <sup>st</sup>	5000sqm +725 m (Transport road side)	1000+ 288 = 1288
5 <sup>th</sup> to CP	73200sqm	14640
<b>Total</b>	<b>78200 sqm + 725m</b>	<b>15640 +288= 15928</b>

**Budget Allocation for Plantation**

S. No.	Head	Qty	Rate (Rs.)	Amount (Rs.)
	<b>Within lease area</b>			
1 <sup>st</sup>	Saplings, with soil work and pesticides	1000	350/-	3,50,000/-
2 <sup>nd</sup> to CP	Saplings, with soil work and pesticides	14640	350/-	51,24,000/-
	<b>Total</b>	<b>15640</b>		<b>51,59,000/- @51.60</b>
	<b>Along the transport and haul road and along the dump</b>			
1 <sup>st</sup> year	Saplings, with soil work and pesticides and tree guard	288	500/-	1,44,000/-
	<b>Total</b>	<b>288</b>		<b>1,44,000/-</b>
	<b>Grand total</b>			<b>53,04,000/- @ 53.04</b>

**EMP BUDGET**

S. No.	Head	Approximate Capital cost (Rs. In lakh)	Basis	Approximate recurring cost per annum (Rs. in lakh)	Basis
1	Air pollution monitoring	20.0	Cost includes water spraying arrangement Tanker, pipe line	4.32 (Rs 4500/- per sample) + 10.0 (water spraying arrangement )	Expected cost includes regular monitoring by approved third party

2	Water pollution monitoring	8.0	Include cost of septic tank, garland drain, settling pits/tanks (4 + 5 no.)	Total 8 sample in year Rs. 2.60 (Rs 3500/- per sample for G/w, S/w, M/D etc)	Expected cost includes regular monitoring by approved third party & De-siltation of pit and ST
3	Noise pollution monitoring	Nil	-	0.25	Expected cost includes regular monitoring by approved third party
4	Solid and Hazardous Waste Management	0.50	Capital cost include cost of RCC dyke for keeping of oil drums, construction of retaining wall	0.25	Expected cost of cleaning and maintenance
5	Environmental Monitoring And management	5.0	-	8.0	Recurring cost would incur on hiring of consultants for environmental management
6	De-siltation of pit and ST		-	1.0 (0.50 in six month)	Six monthly basis
	<b>Total</b>	<b>33.50</b>		<b>26.42</b>	

**Budget For Occupational Health And Safety Of The Workers (In Lakhs)**

Items	Capital Cost	Recurring cost
Personal Protective Equipments (Mask, Gloves, Goggles) 30@0.05	1.50	0.30
Medical Checkup facility, first aid and other welfare activities 30 @0.05	1.50	0.20
<b>Total</b>	<b>3.0</b>	<b>0.50</b>

**SOCIO ECONOMIC MEASURES**

Proposed CRS Activities					
SN	Plan	Activity	Place of activity	Capital (Rs in lakh)	Recurring (Rs in lakh)
1.	Infrastructure development	Infrastructure facility will be provided at school, aganwadi center, gram panchyat i.e. drainage line,	Village Barha, Sichahari, Maharajpur, Laulas & Majhapatiya	5.0	2.00

		village road, hand pump			
2	Free medical camp	Medical Checkup facility, first aid and other welfare activities for nearby villagers by MBBS doctor	Quarterly	-	1.00
3	Vocational training	Skill development center established at Barha Village for youth, woman's	Yearly	5.00	1.50
4	Play ground	To developed play ground after providing land by Gram Panchayat	Yearly	-	0.50
5	Need base activities under CSR	To provide fund through Collector/Gram panchayat as per demand	Yearly		5.00
	<b>Total</b>			<b>10.00</b>	<b>10.00</b>

**ENVIRONMENTAL MONITORING AND MANAGEMENT**

<b>Total Cost (EMP + CSR+ plantation + Monitoring )</b>		
<b>Particular</b>	<b>Amount (Lacs) per annum ( Capital)</b>	<b>Amount (Lacs ) per annum (Recurring)</b>
Dust Suppression through tanker over 725 m road * 6.0m (15Rs/km) Approx running per day 4.350 km@300 day (over transport road)	-	0.20
Dust Suppression through tanker over 0.70 km road * 6.0m (20Rs/km) Approx running per day 12.60km@300 day (over haul road)	-	0.76
Sub total		0.96
Roads repair and maintenance (0.725km@2.0lakh per Km)	-	1.45
Construction of road 0.725km @ 9.00lakh per km	6.53	-
sub total	6.53	1.45
Occupational health and safety exp. @ 30 workers with half yearly medical checkup of workers	3.00	0.50
Sub-total	3.00	0.50

Environmental Monitoring cost	33.50	26.42
Sub-total	33.50	26.42
Plantation Along the Transport Road 288no. @500/-	1.44	0.13
Plantation within lease area 15640no.@350/-	51.60	2.00
Sub-total	53.04	2.13
Barbed Fencing around the lease periphery (1625m @300 running meter)	4.88	0.81
Sub-total	4.88	0.81
Retaining wall around the lease periphery (1625m @100 running meter)	1.63	0.41
Sub-total	1.63	0.41
<b>Total EMP cost</b>	<b>102.58</b>	<b>32.68</b>
CSR cost	10.00	10.00
Sub total	10.00	10.00

The EIA/EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for Granite mining lease in an area of 11.00 ha. for 33,501 TPA at Khasra No. part 63 at Village –Barha Teh-Gaurihar, Distt-Chhatarpur- (M.P), subject to the following special conditions:

#### (A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

#### (B) MINING OPERATIONAL PHASE



8. Blasting shall be carried out as per the approved mine plan to fracture the granite block only as submissions made by the PP during presentation.
9. Retaining wall along with drain shall be provided all around the down side of the hillock
10. Settling tanks and pits shall be provided for proper settling time. The accumulated silt (containing silica also) shall be used for back filling and till than store in RCC lined tank.
11. Over Burden shall be used for the beneficial uses and shall not be stacked within or outside of the lease.
12. Approach road to the mine site shall be made pucca and be maintained properly by the PP to control fugitive emissions.
13. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of **15,928** no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
14. Transportation of material shall be done in covered vehicles.
15. Transportation of minerals shall not be carried out through forest area.
16. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the DGM/IBM.
17. Following drain are suggested for management of mine discharge and runoff

Sr No	Number	Location	Size
1	PGD_1	Along the tow of hill (BP-1 – BP-2)	272 mt L X 1.0mt D X 1.0m W
2	PGD_2	Along the tow of hill (BP-2 – BP-3)	176 mt L X 1.0mt D x 1.0m W
3	PGD_3	Along the tow of hill (BP-3 – BP-4)	320 mt L X 1.0m D x 1.0m W
4	PGD_4	Along the tow of hill (BP-4- BP-5)	180 mt L X 1.0m D x 1.0m W
5	PGD_5	Along the tow of hill (BP-5- BP-6- BP-7)	431 mt L X 1.0m D x 1.0m W
6	PGD_6	Along the tow of hill (BP-7- BP-8)	294 mt L X 1.0m D x 1.0m W
7	PGD_7	Along the tow of hill (BP-8- BP-9-BP-	784 mt L X 1.0m D x 1.0m W

		10)	
8	PGD_8	Along the tow of hill (BP-10- BP-11)	765 mt L X 1.0m D x 1.0m W

18. Following settling pit are suggested to control sedimentation problem

Garland drain no.	No. of Settling pit	Size L X W X D m
PGD_1	PSP_1 , PSP_2	5 X 2.0 X 1.5
PGD_2	PSP_2 , PSP_3	5 X 2.0 X 1.5
PGD_3	PSP_3 & PSP_4	5 X 2.0 X 1.5
PGD_4	PSP_4 & PSP_5	5 X 2.0 X 1.5
PGD_5	PSP_5,PSP_6,PSP_7	5 X 2.0 X 1.5
PGD_6	PSP_7 & PSP_8	5 X 2.0 X 1.5
PGD_7	PSP_8,PSP_9,PSP_10	5 X 2.0 X 1.5
PGD_8	PSP_10,PSP_11,PSP_12,	5 X 2.0 X 1.5

19. Water sprinkling through tankers should be provided on 700 meter long and 6 meter wide haul road.

20. 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.

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

Sr. No	Land Use	Present (Ha)	Conceptual period (Ha)
1.	Pit	Nil	9.7715
2.	Dumps	Nil	Nil
3	Infrastructure & Roads	Nil	Nil
4	Mineral storage	Nil	Nil
5	Plantation Area	Nil	1.00
6	Un worked area	11.00	0.2285
	<b>Total</b>	<b>11.00</b>	<b>11.0</b>
1	Reclamation	Nil	6.82
2	Plantation	Nil	7.82 (15640 no.)
2.1	Backfilled area	Nil	6.82 (13640 no.)

2.2	Un-worked area	Nil	1.00 (200000)
2.3	Bench	Nil	Nil
3	Water body	Nil	1.9515

22. 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.
23. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
24. The commitments made in the public hearing are to be fulfilled by the PP.
25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
26. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

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

27. The proposed EMP cost is Rs. 102.50 lacks and Rs. 32.68 lacks /year are proposed as recurring expenses out of which Rs. 53.04 lacks is proposed for green belt development inclusive of green belt along transport road and Rs. 2.13 lacks /year for recurring expenses for plantation in the proposed EMP of this project.
28. Under CSR activity, Rs. 10.00 lacks and Rs. 10.00 lacks /year are proposed as recurring expenses in different activities and should be implemented through respective committees.
29. 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.
30. A separate 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.
31. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

32. 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.

**CORRIGENDUM AS PER REPRESENTATION SUBMITTED BY PP.**

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

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

Earlier this case was discussed for issuance of TOR in the 307<sup>th</sup> SEAC meeting dated 23/02/2018 and as per the discussion TOR was issued to the PP. PP vide letter dated 12/04/2018 has represented that TOR is issued to them only for iron ore expansion up to 1,71,689 cum/year while they have also applied for the laterite upto 71,271 cum/year and the same was placed before the committee and same was placed before the committee.

On perusal of the case file it was observed by the committee that PP has submitted revised from-1 on dated 05/02/2018 which was forwarded by SEIAA vide letter no. 1643/SEIAA/18 dated 08/02/2018 wherein the proposed capacity for Iron ore 1,71,689 TPA and Laterite 71,270 TPA and also presented the case for TOR for the above mentioned capacities. However, due to typographical error, only Iron ore capacity was mentioned in the issued TOR. Thus committee after deliberations decided that revised TOR may be issued to the PP for Iron ore 1,71,689 TPA and Laterite 71,270 TPA and all other conditions will remain the same.

**DISCUSSION ON QUERY RESPONSE SUBMITTED BY PP OR THE PROJECT ISSUES RECEIVED FROM SEIAA / PENDING FROM A LONG TIME FOR WANT OF DESIRED INFORMATION**

**12. Case No. - 5612/2017 M/s Bhaskar Venkatesh Products Pvt. Ltd (Unit-II), Bhawani Complex, 35, Hanumanganj, Jumerati, Bhopal, (M.P.) 1238 dated 01-12-17. Rec. dt. 05/12/17. Prior Environment Clearance for Manufacturing of Acid Slurry (LABSA) and Spent Acid - by product at Plot No. 70, Village- Kajipalasia (Khudel), Tehsil - Indore, Distt.- Indore (M.P.) Cat. - 5 (f).**

The project is covered under the provisions of EIA Notification as item no. 5(f), hence it requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project site.

PP and their consultant presented the case for ToR before the SEAC in 302<sup>nd</sup> meeting dated 22/12/2017 wherein it was recorded that: the submissions and the presentation made by the PP and his consultant revealed following:

- The Acid Slurry (LABSA 100%) project is proposed within the existing Premises of Detergent unit with capacity of 9000 TPA and By product i.e. Spent Acid 7500TPA at Village-Kajipalasiya Tehsil-Indore Dist.- Indore (MP).
- The project is proposed by M/s Bhaskar Venkatesh Products Pvt. Ltd. which is occupied by Shri Akash Goyal.
- **BHASKAR VENKATESH PRODUCTS PVT. LTD.** is a joint venture company of DAINIK BHASKAR GROUP and ANANT GROUP.
- **BHASKAR VENKATESH PRODUCTS PVT. LTD** came into existence on 12th May 2006 and entered into edible SALT market with the brand name BHASKAR. During its expansion period, we have launched the FMCG items i.e. ATTA and DETERGENT under the brand name of TAN MAN.
- Linear alkyl benzene (LAB), the material used to produce LABSA, is derived exclusively from petroleum bi-products--benzene and paraffin derived from kerosene. LAB currently represents the active ingredients in detergents worldwide.
- LABSA eliminates dirt by its physicochemical mechanism and it is one of the surfactants most widely used in liquid cleaners and in powder. LABSA has been used for more than 45 years in the manufacture of detergents and it is known for its excellent quality/price ratio.

**Project at a Glance**

Site Address	Village-Kajipalasiya, Tehsil-Indore,Dist.-Indore (M.P.)
Production Capacity	Linear Alkaline Sulfonic Acid(LABSA)-9000 MTPA Spent Acid(By Product)- 7500 MTPA
Cost of Project	17 Crore
Raw Material Requirement	Linear Alkaline benzene (LAB)-6000 MTPA Sulphuric Acid(H2SO4)-9000 MTPA Water -1500 MTPA
Fuel	Diesel: 12Lit/Hr for one D.G. Set For Capacity of 100 KVA
Net fresh Water Requirement	The water requirement for proposed unit will be 04 KLD and total requirement for existing and proposed unit will be 12 KLD, whereas domestic requirement will be about 15 KLD. The water is/will be supplied by the tankers.
Power Requirement	350 HP
Capital Cost for Environmental measures ( proposed )	15 Lacs
Proposed area for plantation	18426 Sq.mt.
Existing area of plantation	1535 Sq.mt.
Alternative Source of Power	DG set of 100 KVA
Land acquired	The Total land area available with the unit is 37452.1 sq.mt. Out of that 9254 sq.mt. Land is required for the proposed LABSA plant.
Solid /Hazardous waste Generation	No solid waste Generation in our process.
Nearest Highway	Nemawar Road (NH-59) -0.14 km
Nearest Railway Station	Indore- 17 km
Nearest Airport	Indore -23 km
Nearest Forest/ Sanctuary/Eco-sensitive zone.	No Such Areas within 10 km radius

**Land Use of the Proposed Site**

Particulars	Total Area (Sq.mt.)
<b>Total Land Area</b>	<b>37452.1</b>
Shed Area	5400

Slurry plant area	732
Office area	2600
Toilet	50
Labour	472
<b>Land Required for Proposed Unit</b>	<b>9254</b>
Open Space 1 Area	18,426
Open Space 2 Area	1490
Open Space 3 Area	45
Open Space 4 Area	1,000
<b>Total 22,556 Sq.mt. (60.2%)</b>	

The committee after deliberations decided to issue standard TOR prescribed by MoEF&CC with following additional TORs:

1. During presentation it was observed by the committee that near the LABSA proposed site some under construction civil structures were seen for which PP submitted that these are upcoming staff quarters. For safety purpose committee suggested that these staff quarters should be relocated at a safe distance from the LABSA plant and same should be discussed in the EIA report.
2. Management and disposal of hazardous wastes should be addressed in the EIA report.
3. Transportation and traffic management should be provided in the EIA report.
4. Risk assessment Plan and Disaster Management Plan should be discussed in the EIA report.
5. Justify in EIA report how zero discharge will be maintained.
6. Justify in EIA report wrt to available space and proposed machinery for the new plant and other facilities. (Landuse)
7. Green belt plan with name of species, their numbers on layout map should be provided with the EIA report.
8. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for

incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.

9. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
10. 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.
11. 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.
12. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

PP vide letter dated 08/03/2018 has submitted a representation which was forwarded by SEIAA vide letter no. 1996/SEIAA/18 dated 23/03/2018 stating that now as per the OM No. F-22-76/2017-IA-III dated 13/02/2018 MoEF&CC has categorized all the LABSA project as B2 category and this representation was placed before the committee. On perusal of the OM committee decided that PP may be asked to submit EMP satisfying the criteria laid down in the OM No. F-22-76/2017-IA-III dated 13/02/2018 for consideration of the project as B2 category.

**(Dr. Mohd. Akram Khan)**  
**Member**

**(Dr. A.K. Sharma)**  
**Member**

**(Prashant Shrivastava)**  
**Member**

**(R. Maheshwari)**  
**Vice-Chairman**



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

**Annexure- 'A'**

**Standard conditions applicable to Stone/Murram and Soil quarries:**

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

**Annexure- 'B'**

**Standard conditions applicable for the sand Mine Quarries\***

1. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Plantation shall be carried out on the banks for stabilization of the banks.
5. The mining activity shall be done manually.
6. No heavy vehicles shall be allowed to enter the river bed and the transportation of the sand from the excavation pits of the leased area to the loading point shall be through trollies (tractor trollies) and not by heavy vehicles. Only registered tractor trollies which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
7. NOC of gram panchayat should be obtained for the water requirement.
8. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
9. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
10. No Mining shall be carried out during Monsoon season.
11. The depth of mining shall be restricted to 3m or water level, whichever is less.
12. No in-stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
18. EC will be valid for mine lease period subject to a ceiling of 5 years.
19. Mining should be done as per the submitted land use plan submitted by PP.

**Annexure- 'C'**

**Standard conditions applicable for the Khodu Bharu sand Mine Quarries\***

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
4. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
5. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
6. The mining activity shall be done manually.
7. Heavy vehicles shall not be allowed for removal of sand.
8. The sand shall be transported by small trolleys up to the main transport vehicle.
9. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
10. No Mining shall be carried out during Monsoon season.
11. PP shall take Socio-economic activity in the region through the 'Gram Panchayat'.
12. NOC of gram panchayat should be obtained for the water requirement.
13. EC will be valid for mine lease period/mine plan subject to a ceiling of 5 years.
14. The mining shall be carried out strictly as per the approved mining plan.

**Annexure- 'D'**

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

1. 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.
2. An inventory of flora & fauna based on actual ground survey shall be presented.
3. Risk factors with their management plan should be discussed in the EIA report.
4. The EIA report should be prepared by the accredited consultant having no conflict of interest.
5. The EIA document shall be printed on both sides, as far as possible.
6. All documents should be properly indexed, page numbered.
7. Period/date of data collection should be clearly indicated.
8. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.

9. 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.
10. 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.
11. Grant of TOR does not mean grant of EC.
12. 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.
13. 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.
14. 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.
15. All the necessary NOC's duly verified by the competent authority should be annexed.
16. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
17. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
18. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
19. 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.
20. 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.
21. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
22. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.