

The 320<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 14 July, 2018 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. Rubina Chaudhary, Member.
3. Shri Prasant Srivastava, Member.
4. Shri R. Maheshwari, Member.

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

1. **Case No. - 5617/2017 Shri Yogesh Khare, Sakin Khare Building, Gandhiganj, Katni, MP – 483501. Prior Environment Clearance for Limestone & Dolomite Mine in an area of 1.870 Ha.. (25,266 ton per annum) (Khasra no. 503 New 867, 955) at Village- Rupaund, Tehsil - Badwara, Dist. Katni (MP).**

This is case of Limestone & Dolomite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 503 New 867, 955) at Village- Rupaund, Tehsil - Badwara, Dist. Katni (MP) 1.870 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. 1358 dated 15/12/2017.

Earlier this case was scheduled for the presentation in the 307<sup>th</sup> SEAC meeting dated 23/02/2018, 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. Earlier PP was also absent in the 304<sup>th</sup> SEAC meeting dated: 15/01/2018 & SEAC 302<sup>nd</sup> SEAC meeting dated 22.12.2017 meeting. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

This case was scheduled for the presentation as PP vide letter dated 20/05/2018 has requested to give a chance to present their case which was forwarded through SEIAA vide letter no.-1014 dated 14/06/2018 after relisting the case.

In this SEAC meeting 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.

2. **Case No. – 5709/2018 M/s Sukhdeo Prasad Goenka, Goenka Bhavan, Station Road, Katni, (M.P.) (SIA/(M.P.)/MIN/ 19436/2017). Prior Environment Clearance for Expansion of Limestone mine in an area of 7.065 Ha. (from 1,00,000 ton per annum to 4,83,143 ton per annum) Khasra no. 14, 15/1, 15/2, 16 (Old Khasra) 10, 77(New Khasra) at Village- Harraiya, Tehsil - Vijeraghogharh, Dist. Katni (M.P.).**

This is case of Expansion of Limestone mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. 14, 15/1, 15/2, 16 (Old Khasra) 10, 77(New Khasra) at Village- Harraiya, Tehsil - Vijeraghogharh, Dist. Katni (M.P.) 7.065 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office vide letter no.4359 dated: 07/08/2008 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine with total area of 17.62 ha including this mine.

In this SEAC meeting 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.

3. **Case No. – 5680/2018 Bhopal Smart City Development Corporation Limited, Mr. Chandramauli Shukla, Zone-14, near Tatpar Petrol Pump, BHEL Govindpura, Bhopal, MP – 462023 Prior Environment Clearance for Area Based Development Project for Bhopal Smart City (Plot Area: 138.5 Ha, Total Built-up Area (in consideration with FAR): 19.32 lakhs sqm) at village - Kotra Sultanabad,, Tehsil - Huzur, Dist. Bhopal, MP. (Cat. 8(b) Project. Env. Con. – Tata Consulting Engineers, Mumbai.**

This is case of Prior Environment Clearance for Area Based Development Project for “Bhopal Smart City” Plot Area: 138.5 Ha, Total Built-up Area (in consideration with FAR): 19.32 lakhs sqm at Khasra No. – 34, 35, 36, 37, 109, 110, 112, 113, 114, 108, 115, 102, 101, 119, 120, 126, 127,128, 129, 130, 133, 121, 122, 123, Village - Kotra Sultanabad, Bhopal Sehar, Tehsil - Huzur,

Distt. - Bhopal, (M.P.) Cat. 8(b) Project. The TOR was approved in 19th Meeting of Expert Appraisal Committee (Infra 2) meeting with additional points 29th June 2017 and issued by MoEF&CC vide letter no. 21-202/2017-IA-III dated 10.08.2017.

The EIA was presented by the PP and their consultant in the SEAC 317<sup>th</sup> meeting dated 20.06.2018 and during presentation following details were provided:

<b>Sr. No.</b>	<b>Details</b>	<b>Information</b>										
1.	Name of the project & its location:	Area Based Development under Bhopal Smart City <table border="1" style="margin-left: 20px;"> <tr> <td>Location</td> <td>North &amp; South T.T. Nagar</td> </tr> <tr> <td>Village</td> <td>Bhopal Shaher &amp; Kotra Sultanabad</td> </tr> <tr> <td>Tehsil</td> <td>Huzur</td> </tr> <tr> <td>District</td> <td>Bhopal</td> </tr> <tr> <td>State</td> <td>Madhya Pradesh</td> </tr> </table>	Location	North & South T.T. Nagar	Village	Bhopal Shaher & Kotra Sultanabad	Tehsil	Huzur	District	Bhopal	State	Madhya Pradesh
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Village	Bhopal Shaher & Kotra Sultanabad											
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District	Bhopal											
State	Madhya Pradesh											
2.	Name of the Company, Address Tele No. & E-mail :	Bhopal Smart City Development Corporation Limited, (Near Tatpar Petrol Pump), Zone 14, Bhopal Municipal Corporation, BHEL, Govindpura, Bhopal - 462023, Madhya Pradesh. Phone: 0755-2477770 Email- bscdcl@smartbhopal.city.										
3.	Latitude and Longitude of the project.	North: 23°14'18.63"N, 77°23'47.62"E East: 23°13'58.93"N, 77°24'10.39"E South: 23°13'28.21"N, 77°24'6.93"E West: 23°13'51.82"N, 77°23'36.77"E										
4.	If a Joint venture, the names & addresses of the JV partners including their share.	NA										
5.	Project brief: nature of proposal	Nature of Project: New project.										

Sr. No.	Details	Information																																						
	(new/expansion,) total area- land use, project components, connectivity to the site etc.	<p>Total Plot Area- 138 Ha.</p> <p>Total Built up Area – 193.27 Ha. (19,32,694.38 Sq. m)</p> <p><b>Proposed Land Use</b></p> <table border="1" data-bbox="695 499 1495 1163"> <thead> <tr> <th data-bbox="695 499 776 615">S No</th> <th data-bbox="776 499 992 615">Land Use Categories</th> <th data-bbox="992 499 1214 615">Area (Ha)</th> <th colspan="2" data-bbox="1214 499 1495 615">Proposed Land Use (%)</th> </tr> </thead> <tbody> <tr> <td data-bbox="695 615 776 701">1</td> <td data-bbox="776 615 992 701">Residential</td> <td data-bbox="992 615 1214 701">45.67</td> <td colspan="2" data-bbox="1214 615 1495 701">33.2</td> </tr> <tr> <td data-bbox="695 701 776 787">2</td> <td data-bbox="776 701 992 787">Commercial</td> <td data-bbox="992 701 1214 787">22.14</td> <td colspan="2" data-bbox="1214 701 1495 787">16.1</td> </tr> <tr> <td data-bbox="695 787 776 873">3</td> <td data-bbox="776 787 992 873">PSP+Utility</td> <td data-bbox="992 787 1214 873">11.07</td> <td colspan="2" data-bbox="1214 787 1495 873">7.9</td> </tr> <tr> <td data-bbox="695 873 776 980">4</td> <td data-bbox="776 873 992 980">Green/Open Spaces</td> <td data-bbox="992 873 1214 980">23.53</td> <td colspan="2" data-bbox="1214 873 1495 980">16.7</td> </tr> <tr> <td data-bbox="695 980 776 1066">5</td> <td data-bbox="776 980 992 1066">Roads</td> <td data-bbox="992 980 1214 1066">35.98</td> <td colspan="2" data-bbox="1214 980 1495 1066">26.1</td> </tr> <tr> <td colspan="2" data-bbox="695 1066 992 1163"><b>Total</b></td> <td data-bbox="992 1066 1214 1163"><b>138.40</b></td> <td colspan="2" data-bbox="1214 1066 1495 1163"><b>100.0</b></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• The Project area includes North and South TT Nagar starting after new market in the north and extending till Mata Mandir chowk in the south.</li> <li>• The Site is next to existing BRT corridor passing through New Market from Roshanpura Square in to MP Nagar on the east.</li> <li>• Bhopal Railway Junction is the nearest railway station to the site which 4.5 km away.</li> <li>• Nearest airports to the sites is Raja Bhoj International Airport which is 10.5 km from site.</li> </ul> <p><b>Key Infrastructure Components:</b></p> <ul style="list-style-type: none"> <li>• 24 x 7 Water Supply Network</li> <li>• 100% coverage with Sewer Network and STPs</li> <li>• Recycled water distribution network &amp; Pumping .</li> <li>• Dual plumbing system.</li> <li>• Storm Water drainage including connectivity to</li> </ul>				S No	Land Use Categories	Area (Ha)	Proposed Land Use (%)		1	Residential	45.67	33.2		2	Commercial	22.14	16.1		3	PSP+Utility	11.07	7.9		4	Green/Open Spaces	23.53	16.7		5	Roads	35.98	26.1		<b>Total</b>		<b>138.40</b>	<b>100.0</b>	
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		<p>natural ponds.</p> <ul style="list-style-type: none"> <li>• Road networks, NMT and parking facility. Strong pedestrian connectivity.</li> <li>• ICT infrastructure.</li> <li>• Smart street lighting</li> <li>• 24X7 uninterrupted power distribution.</li> <li>• Underground utility corridor.</li> <li>• Landscaping.</li> </ul>
6.	Cost of the project.	Rs. 1500 crore
7.	Whether the project is in Critically Polluted area.	No
8.	If the project is for EC under EIA Notification, 2006	Yes
a	For the first time appraisal by EAC	Yes, under Item 8(b) i.e. Township and Area development Category -B
(i)	Date of ToR:	TOR was approved in 19th Meeting of Expert Appraisal Committee (Infra 2) dated 29 <sup>th</sup> June 2017. File No: 21-202/2017-IA-III
(ii)	Date of Public Hearing, location	Not Applicable
(iii)	Major issues raised during PH and response of PP	Not Applicable
b)	Second appraisal	
(i)	Date of first /earlier appraisal	Not Applicable
(ii)	Details of the information sought by the EAC with the response of the PP.	Not Applicable
9.	If the project involves diversion of forest land	No forest land

<b>Sr. No.</b>	<b>Details</b>	<b>Information</b>
(i)	extend of the forest land	No/ Not Applicable
(ii)	status of forest clearance	No/ Not Applicable
10.	If the project falls within 10 km of eco-sensitive area	Yes
(i)	Name of eco- sensitive area and distance from the project site,	Van Vihar National Park (1.5 KM NW direction)
(ii)	Status of clearance from National Board for wild life.	Not Applicable (As per Notification S.O.3777(E)dt 30.11.2017 the eco sensitive zone is reduced to 100 m.
11.	Waste Management	
(i)	Water requirement, source, status of clearance	Total water demand for the ABD area comes around 20.74 MLD. Source of water will be Kolar water dam followed by water treatment at Kolar plant.
(ii)	Waste water quantity, treatment capacity, detail	Total waste water generation will be 12.28 MLD, Treated water shall be reused for flushing, gardening, road washing, landscape & irrigation of plants, shrubs etc. so tertiary treatment is recommended along with the SBR technology for primary and secondary treatment.
(iii)	Recycling / reuse of treated water and disposal	The treated water from 2 STP's to be pumped to 2 recycles water distribution lines and used for flushing and landscape purposes.
(iv)	Solid Waste Management	The basis for "municipal" solid waste classification into bio-degradable, recyclable and inert wastes is considered as per CPHEEO Draft SWM Manual 2014. Total estimated waste generation in ABD area is 58.97 TPD. Segregation of waste will be proposed at source in order to provide suitable treatment process and attain sustainable SWM approach. The automated waste collection (AWC) system shall support in having waste streaming which will further be collected at dedicated Waste Collection Station.

Sr. No.	Details	Information
		Segregated waste will be diverted to systematic treatment as per the category of waste. The wet waste is proposed to be treated using bio-methanization technology.
(v)	Hazardous Waste Management	House hold Hazardous waste will be segregated from municipal solid waste and treated separately in accordance with the Hazardous Waste (Management and Handling) Rules, 2016
12.	Other details	
(i)	Noise Modeling with noise control measures for airports	Not Required
(ii)	Details of water bodies, impact on drainage if any	The proposal does not involve the alteration of natural drainage pattern.
(iii)	Details of tree cutting	Presently there are 6080 Trees and shrubs as per the Tree survey conducted within the project site.
(iv)	Energy conservation measures with estimated saving	<ul style="list-style-type: none"> <li>- Characteristics of glass which will be used by the individual developer, should be in line with E.C.B.C. guidelines &amp; IGBC guidelines</li> <li>- The passive solar architectural features will be developed by individual plot developer in-line with E.C.B.C guidelines</li> <li>- Solar panels over the light posts, bus stands and toilets within the street section allow capturing of solar energy</li> <li>- The shading will be provided by individual developers in line with E.C.B.C guidelines.</li> <li>- Individual developers would be using CFC and HCFC free chillers, if required</li> </ul>

<b>Sr. No.</b>	<b>Details</b>	<b>Information</b>
(v)	Green belt development (20 % of construction projects and 33 % for others)	About 23.53 ha land is earmarked for dedicated green belt development. Some of the existing trees would be either protected or transplanted within the ABD area. Other trees shall be cut and compensatory trees shall be planted as per the BMC guidelines. Over and above the dedicated green belt, each plot will also have green and open spaces as per the project DCR. It is proposed to have native species for plantation only.
(vi)	Parking requirement with provision made	Total parking area calculated for ABD area is 5,28,026 sqm distributed as: Commercial- 261725 sq.m, Residential- 212571 sq.m, PSP/Utilities- 53731 sq.m. Multi level car parking, Basement Parking, Podium Parking are the provisions made for parking.
13.	If the project involves foreshore facilities	
(i)	Shoreline study	Not Applicable
(ii)	Dredging details, disposal of dredge material	Not Applicable
(iii)	Reclamation	Not Applicable
(iv)	Cargo handling with dust control measures	Not Applicable
(v)	Oil Spill Contingent Management Plan	Not Applicable
14.	If the project involves Marine disposal	
(i)	NOC from PCB in case of marine disposal	Not Applicable
(ii)	details of modeling study – details of outfall diffusers, number of dilution	Not Applicable



<b>Sr. No.</b>	<b>Details</b>	<b>Information</b>																											
	expected, distance at which the outlet will reach ambient parameters 9																												
(iii)	Location of intake / outfall. Quantity,	Not Applicable																											
(iv)	detail of monitoring at outfall	Not Applicable																											
(v)	Any other relevant information	Not Applicable																											
15.	Other information																												
(i)	Investment/Cost of the project is Rs.....(in crore).	Capital cost of infrastructure in 3 years is Rs. 637.13 Crore.																											
(ii)	Employment potential.....	<p>Comprehensive development will improve quality of life, employment and enhance incomes for all. Modern commercial zone would provide better economic &amp; employment. Estimated employment from proposed development is as follows:</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Type of employment</th> <th>Numbers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Employment Generation Approx</td> <td>68,000</td> </tr> <tr> <td>2</td> <td>Household Support</td> <td>12,000</td> </tr> <tr> <td>3</td> <td>Retail</td> <td>2,000</td> </tr> <tr> <td>4</td> <td>Offices</td> <td>10,000</td> </tr> <tr> <td>5</td> <td>Stadium and Events</td> <td>100</td> </tr> <tr> <td>6</td> <td>Public Facilities</td> <td>43,200</td> </tr> <tr> <td>7</td> <td>Hospitality</td> <td>140</td> </tr> <tr> <td>8</td> <td>City Maintenance</td> <td>195</td> </tr> </tbody> </table>	Sr. No	Type of employment	Numbers	1	Employment Generation Approx	68,000	2	Household Support	12,000	3	Retail	2,000	4	Offices	10,000	5	Stadium and Events	100	6	Public Facilities	43,200	7	Hospitality	140	8	City Maintenance	195
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Sr. No.	Details	Information
(iii)	Benefits of the project	Area- based development will transform existing areas (retrofit and redevelop), including slums, into better planned ones, thereby improving livability of the Bhopal City. New areas (Greenfield) will be developed around cities in order to accommodate the expanding population in urban areas. Application of Smart Solutions will enable cities to use technology, information and data to improve infrastructure and services.
16.	Date of Ground water clearance:	Not Applicable
17.	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring	Annual environment monitoring cost is 22.74 lakhs.  Cost of environmental cell is 21 lakhs per month.
18.	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions	According to the spacing requirements provided in below plant list, approximate numbers of trees/plants need to be installed along the roads and green areas within the project site are: along trunk roads – 6000 nos.
19.	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.	Not Applicable

Earlier, in the SEAC 317<sup>th</sup> meeting dated 20.06.2018 during presentation it was submitted by PP that the site was selected based on the Smart City Proposal prepared by Bhopal Municipal Corporation submitted to GoI under the Area Based Development Component of Smart City Mission. Site consists of developed government owned land along with trees and bushes. Government housing and small shops shall be relocated to existing clear parcels of land within the site. After which the buildings shall be cleared for further development. It was also submitted by PP that approx. 6080 trees falling is proposed in this project and master plan approval is obtained. PP further submitted that about 23.53 ha land is earmarked for dedicated green belt

development. Some of the existing trees would be either protected or transplanted within the ABD area. Other trees shall be cut and compensatory trees shall be planted as per the BMC guidelines. Over and above the dedicated green belt, each plot will also have green and open spaces as per the project DCR. It is proposed to have native species for plantation only. During discussion it was observed that several high rise buildings are proposed in this project for which necessary high rise building permissions shall be obtained from the competent authority. Apart from the area development and Iconic building which will be developed by the PP under smart city project, there are other 99 plots which will be developed during course of time. When enquired by committee, PP submitted that this proposal of EC will cover entire project including these 99 plots and if so PP was asked to submit complete details of these 99 plots and proposed developmental plan/conceptual plan. After presentation, PP was asked to submit following details for further consideration of the project:

1. Copy of master plan approval obtained by PP.
2. Declaration of PP that no construction initiated till date on site.
3. Complete details of Iconic building and other structures which will be erected by the PP with conceptual plan & copy of high rise building permission if obtained.
4. Presently there are 6080 Trees and shrubs as per the tree survey conducted within the project site. As proposed by PP during presentation, some of the existing trees would be either protected or transplanted within the ABD area. Other trees shall be cut and compensatory trees shall be planted. Thus please submit the details of trees which will be protected/relocated out of 6080 and number of tree which will be uprooted and scheme of compensatory plantation. Prior tree cutting, permission of competent authority must be obtained.
5. Road swapping machines should be provided in this project to control fugitive emission for which a proposal shall be submitted by PP.
6. Details and volume of top soil and excavated earth with their disposal plan be submitted.
7. Details of proposed fire stations and facilities within the project shall be submitted along with the safety measures proposed for bio-mentanization plant.
8. Complete details of parking facilities provided for the entire project.
9. This project will attract huge inflow & outflow of traffic and to avoid traffic congestion at crossings such as New Market, Mata Mandir, Banganga etc thus proposal for providing flyovers on all major traffic junctions shall be submitted.
10. Details and dimensions of all the components of STP's proposed in the project.
11. During presentation PP informed that no R&R is involved in the project for which a declaration should be submitted by PP.
12. During presentation it was observed that some figures in presentation are not as per the submitted EIA report for which it was submitted by PP that during finalization of

presentation some changes have taken place for which PP was asked to submit the complete details with revised details which are differing with the EIA report.

PP vide letter no. 1059/BSCDC/2018 dtd.09.07.2018 submitted reply of the above query. The query reply was presented by the PP and their consultant wherein PP submitted that as desired they have submitted response for all the queries raised by the committee. PP also informed that they have already submitted the declaration at the time of submitting the EIA report and have appended the copy of the same wherein it is clearly stated that no civil construction work has been undertaken at the project site except partial fencing/leveling and temporary guard room. During query reply presentation, PP informed that stage wise various necessary approvals such as tree cutting, high rise building permissions etc will be obtained. PP further submitted that till date they have obtained the tree cutting permissions for 850+42 trees and submitted the copies of these approvals. PP further submitted that they have made the provisions for minimum ten road sweeping machined in the project. During presentation, it was submitted by PP that no soil will be disposed off outside the project area and desired additional volume of top soil will be fulfilled through the excavated soil of upper lake and flame proof enclosures will be provided for the bio-mentanization plant and also submitted in writing. The issue of traffic management was also discussed in length wherein after deliberations committee recommends that considering the huge inflow & outflow of traffic and to avoid traffic congestion flyovers at Jawahar chowk, Roshanpura and Mata Mandir traffic junctions shall be provided.

After deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of prior EC for Area Based Development Project “Bhopal Smart City” (Plot Area: 138.5 Ha, Total Built--up Area (in consideration with FAR): 19.32 lakhs sqm) at village - Kotra Sultanabad,, Tehsil - Huzur, Dist. Bhopal, MP. (Cat. 8(b) Project)

#### **(A) PRE-CONSTRUCTION PHASE**

1. During construction and demolition of old structures, the entire area should be covered with minimum 12 feet MS sheets and due care should be taken for noise and vibration control during construction & demolition work. Curtaining of site should also be carried out to protect nearby habitat.
2. For dust suppression measures such as regular sprinkling of water should be undertaken.
3. PP will obtain other necessary clearances/NOC from respective authorities.
4. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

5. Topsoil (upper 30 cm) will be removed prior to commencement of bulk earthwork and preserved onsite for reuse in landscape development within the project area.
6. As proposed, the cut and fill plan should ensure that all the excavated earth material will be utilized within the project boundary for filling purpose during construction and no soil/muck shall be disposed of outside the project area.
7. Minimum clearance of vegetation shall be carried out and the vegetative cover shall be redeveloped wherever possible.
8. For dust mitigation measures following measures shall be adopted:
  - Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
  - No excavation of soil shall be carried out without adequate dust mitigation measures in place (such as water sprinklers) and dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
  - No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
  - Wind-breaker of appropriate height considering the quantum of construction work (minimum 03 meters) shall be provided.
  - Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste is prohibited.
  - No uncovered vehicles carrying construction material and waste shall be permitted.
  - Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
9. The natural drainage system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible for which minimum cutting and filling should be done.
10. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed within the project boundary taking the necessary precautions for general safety and health aspects of people.
11. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals from the MP Pollution Control Board.

**(B) CONSTRUCTION PHASE**

12. Use of environment friendly materials in bricks, blocks and other construction materials, shall be used in the construction as per the provision laid down in Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016.

13. During construction phase, a settling tank should be provided before final discharge of the effluent.
14. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to the standards prescribed for air and noise emissions under E(P) Act, 1986.
15. PPE's such as helmet, ear muffs etc should be provide to all the workers.
16. Fire extinguishers should be provided on site during construction period.
17. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
18. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
19. 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 30,000 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants. 23.53 ha land is earmarked for dedicated green belt development.
20. The proposed land use of the project is as follows:

S No	Land Use Categories	Existing		Proposed	
		Area (Ha)	Proposed Land Use (%)	Area (Ha)	Proposed Land Use (%)
1	Residential	91.23	65	45.67	33
2	Commercial	8.09	6	22.14	16
3	PSP	8.31	6	11.07	8
4	Green/Open Spaces	10.54	8	23.53	17
5	Roads	20.22	15	35.98	26
<b>Total</b>		<b>138.40</b>	<b>100.0</b>	<b>138.40</b>	<b>100.0</b>

21. MSW storage area should have 48 hours storage capacity and MSW should be disposed off at a designated place in consultation with the local authority.
22. For handling of Wet Waste, Bio-Methanation Plant of (2X10 T and 5T) capacity is proposed and the generated inerts shall be transferred to landfill site with the approval of competent authority.
23. For Automated Waste Collection System following plots shall be kept aside:

S. No	Plot No	Area
1	21	5756 sqm
2	93	8041 sqm

24. Storm water drainage system shall be pervaded.
25. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
26. For better traffic management optimum numbers of roads in the outskirts and within the city area should be provided. Since this project will attract huge inflow & outflow of traffic and to avoid traffic congestion flyovers at Jawahar chowk, Roshanpura and Mata Mandir traffic junctions shall be provided.
27. Provisions shall be made for Multi level car parking, Basement parking and Podium parking in an area of 5,28,026 sq.meter.
28. Smart street lighting with solar street lights shall be provided.
29. 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.
30. Dual pipe plumbing system shall be provided for supplying fresh water (for drinking cooking and bathing etc) and recycled water for flushing, landscape irrigation etc..
31. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the all building plan.
32. The local bye-law provisions on rain water harvesting should be followed and incase of ground water abstraction approval shall be taken from the CGWA.
33. Presently there are 6080 Trees and shrubs as per the tree survey conducted within the project site out of which some of the existing trees would be either protected or transplanted within the ABD area and other trees shall be cut and compensatory trees shall be planted. Thus prior tree cutting, permission of competent authority must be obtained and compensatory plantation shall carry out as per the approval of competent authority.

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

34. Fresh water requirement for the project shall not exceed 20.74MLD.
35. For sewage and waste water treatment two STPs with total capacity of 5.6 MLD and 6.0 MLD shall be provided.
36. Suitable number of road sweeping machines (minimum 10) shall be provided.
37. Proper fire fighting arrangements in consultation with the fire department should be provided.
38. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
39. Complete automation using SCADA system (Supervisory Control & Data Acquisition) and active leakage control and detection system should be installed.
40. All building lighting will be designed as per Energy Conservation Building Code (ECBC ) norms.
41. Sludge from the onsite sewage treatment, including septic tanks, shall be collected and disposed off as per the prevailing laws/rules,
42. As proposed in order to meet the standby power from the solar energy and sizing of solar water heating systems, 12% of total power shall be generated through roof top solar.

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

43. PP has proposed Rs. 74.00 Crore for EMP base Cost and O&M cost as 3.7 Crore per annum .
44. As proposed, 8.5 % area has earmarked of the total area of the ABD for the green belt development / plantation and the proposed species should also be planted in consultation with the forest department.
45. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016 and Solid Waste Management Rules, 2016 etc.
46. 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.

**4. Case No. – 5714/2018 Sarpanch, Gram Panchayat, Village - Barchi, Tehsil - Aamla, Dist. Betul, (M.P) – 460001 (SIA/(M.P.)/MIN/73782/2018).Prior Environment Clearance for**



**Sand mine in an area of 5.520 Ha. (10,300 cum per annum) (Khasra no. 434, 308) at Village - Barchi, Tehsil - Aamla, Dist. Betul (M.P.).**

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. 434, 308 at Village - Barchi, Tehsil - Aamla, Dist. Betul (M.P.).5.520 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office (Ekal Praman-Patr) vide letter no.1263 dated: 19/08/2016 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

In this SEAC meeting 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.

**5. Case No. – 5715/2018 Sarpanch, Gram Panchayat, Village - Harnya, Tehsil - Chicholi, Dist. Betul, (M.P.) – 460001 (SIA/(M.P.)/MIN/73780/2018).Prior Environment Clearance for Sand mine in an area of 5.590 Ha. (44,000 cum per annum) (Khasra no. 1, 9) at Village - Harnya, Tehsil - Chicholi, Dist. Betul (M.P.).**

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. 1, 9 at Village - Harnya, Tehsil - Chicholi, Dist. Betul (M.P.).5.590 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office (Ekal Praman-Patr) vide letter no.1264 dated: 19/08/2016 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

In this SEAC meeting 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.

**6. Case No. – 5711/2018 Sarpanch, Gram Panchayat, Village - Lodaroti, Tehsil - Betul, Dist. Betul, (M.P.) – 460001 (SIA/(M.P.)/MIN/73781/2018).Prior Environment Clearance for Sand mine in an area of 5.450 Ha. (7200 cum per annum) (Khasra no. 106) at Village- Kodaroti, Tehsil - Betul, Dist. Betul (M.P.).**

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 106) at Village- Kodaroti, Tehsil - Betul, Dist. Betul (M.P.) 5.450 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 Ekal Praman-Patr vide letter no.1262 dated: 19/08/2016 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant. Committee after discussion and perusal of the documents found that there is a culvert in the middle of the lease and thus the lease is bifurcated in to two portions, hence instructed to the PP to left 250 meter set back from the both side of the culvert before commencing the mining. Committee also suggested that the portion of lease towards northern side shall be used for the sand evacuation considering the availability of sand and sanctioned volume of 7200 cum/year. After presentation asked PP to submit response on the following queries:

1. Coordinates of the lease area duly signed by the mining authority.
2. Replenishment study duly approved by the competent authority.
3. Permission from gram panchayat for using river water for water sprinkling.
4. Revised Plantation details as suggested by the committee during presentation.
5. Revised EMP & CSR budget as suggested by the committee during presentation.

**7. Case No. – 5712/2018 Sarpanch, Gram Panchayat, Village - Shahpur/Patowapura, Tehsil - Shahpur, Dist. Betul, (M.P.) – 460001 (SIA/(M.P.)/MIN/74711/2018).Prior Environment Clearance for Sand mine in an area of 11.0 Ha. (3,30,000 cum per annum) (Khasra no. 1 & 112) at Village - Shahpur/Patowapura, Tehsil - Shahpur, Dist. Betul (M.P.).**

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. 1 & 112 at Village - Shahpur/Patowapura, Tehsil - Shahpur, Dist. Betul (M.P.).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 Collectors' Office (Ekal Praman-Patr) vide letter no.708 dated: 13/05/2016 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

In this SEAC meeting 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.

**8. Case No. – 5713/2018 Sarpanch, Gram Panchayat, Village - Sontalai, Tehsil - Aamla, Dist. Betul, (M.P.) – 460001 (SIA/ (M.P.)/MIN/73791/2018).Prior Environment Clearance for Sand mine in an area of 9.330 Ha. (9000 cum per annum) (Khasra no. 1) at Village - Sontalai, Tehsil - Aamla, Dist. Betul (M.P.).**

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. 1, Village - Sontalai, Tehsil - Aamla, Dist. Betul (M.P.). 9.330 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office (Ekal Praman-Patr) vide letter no.1265 dated: 19/08/2016 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

In this SEAC meeting 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.

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

**(Dr. R Maheshwari)**  
**Member**

**(Dr. Rubina Chaudhary)**  
**Member**

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

**(Mohd. Kasam Khan)**  
**Chairman**

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

**Annexure- 'A'**

**Standard conditions applicable to Stone/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 tarpoline 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 with any committee processing the case.
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.