

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

The 150th meeting of the State Expert Appraisal Committee (SEAC) was held on 26th September, 2014 under the Chairmanship of Dr. R. B. Lal. The following members attended the meeting-

1. Dr. Mohini Saxena, Member
2. Shri K.P. Nyati, Member
3. Shri A.P. Srivastava, Member
4. Dr. U.R. Singh, Member
5. Dr. Srinivasan Krishnan Iyer, Member SEAC,
6. Shri Manoj Pradhan, Member
7. Shri Manohar K. Joshi, Member
8. Shri Ram Krishna Maheshwari, Member
9. Dr. Alok Mittal, Member
10. Shri A.A. Mishra, Secretary

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

Discussion and decision taken on miscellaneous issues:

- A. **Confirmation of the minutes of 149th meeting dated 05/09/2014-** Minutes of the 149th SEAC Meeting dated 05/09/2014 were discussed, and finalized in the meeting.

Cases appraised for EIA / EMP and B-2 category

Building / Area Development Projects

1. **Case No. 1754/2014** M/s Chirayu Foundation, Bhopal Through Dr. Ajay Goyanka , Secretary , 11 Professor Colony, Bhopal (M.P.) 462002 *Apply 8(a) Cat., Expansion of Chirayu Hospital and Medical Cancer Research and diagnostic centre at Khasra No. – 70/1/1, 70/1/2, 70/2/1 and 70/2/2, Village- Bhaisakhedi, Tehsil – Huzur, Distt. – Bhopal (M.P.) Proposed additional area – 1.207 ha. Cancer Research and diagnostic centre with Proposed Built-up Area- 6138.00 sq.m Existing Built up area 91757.20 sqm. T. Built up area – 97895.20 sqm. (Building Construction project) .*

This is building construction project. Addition in the built-up area has been proposed in the existing. Project. The existing built-up area in the project for which EC has already been granted by MPSEIAA is 91757.20 m², the proposed enhancement in the built-up area is 6138 m² resulting in total built-up area of 97895.20 m². The application along with other documents was forwarded to SEAC by SEIAA for appraisal. PP and his consultant presented the salient features of the project which reveals following:

Land use

- The proposed site was initially an agricultural land which is now changed to health under Public and Semi Public (PSP) land use category. The proposed site is already in possession of the project proponent and will be developed within the purview of building by-laws and regulations of Department of Town & Country Planning. Hence, land use

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

change is anticipated. Existing land use will not be altered in an inconsistent manner as there will be no shifting of utilities, no tree cutting and no displacement of people. Land acquiring details of the proposed Hospital and Medical College and were submitted by the PP change of land use under section 23A of the town and country planning act, 1973.

Project Site Location

- The proposed site, earmarked for development of Cancer research and diagnostic centre is located near to the village Bhaisakhedi, Bhopal.
- The proposed development has been planned on Khasra No. 70/1/1, 70/1/2, 70/2/1 and 70/2/2 Village Bhaisakhedi total area approx. 12070 sq. m. (1.207 Ha).

Land area and Built-up area:

- The site selected is almost of plain level in topography and has plot area of 12070 sq. m. and built up area of 6138 sq.m.. The area statement for the proposed research centre is as follows:

Area Statement for Proposed Cancer research centre

Total area of Site	12070.00 sq.m.
Reserved Green Land	8150.00 sq.m.
Net Planning Area	3920.00 sq.m.
Area under Road	1226.00 sq.m.
Pavement and parking	1109.00 sqm
Open Area	409.00 sqm
Ground coverage 30%	1176.00 sqm
Roof top area	1534.50 sqm

Water consumption:

- **During the construction stage**, arrangement has been made to get ETP treated water from the nearby Chirayu Hospital campus . It is estimated that water demand during the construction phase may vary from 25 to 30 kld.
- **During the project operational stage**, the total water demand of the research centre will be around 31 kld. Out of this water requirement, 16 kld will fulfil the domestic demand, 9 kld will be required for flushing use, 6 kld for bathing, washing and horticulture purposes. Cooling water demand will be 5 kld which is a seasonal demand and 200 kld for fire-fighting requirements (one-time fresh water demand).

Requirement for the Proposed Research Centre

	Type	Nos/ units	Persons in each unit	Rate of Occupancy	Expected Population	Fresh water requireme nt	Total Requirem ent
				%	Nos.	liters/day	Kld
Cancer Research and Diagnostic Centre							
1	Hospital beds	60	1	70%	42	450	18.90
2	Attendants	60	1	70%	42	45	1.89
3	OPD	40	1	90%	36	45	1.62
4	Staff members	60	1	100%	60	45	2.70
5	Interns Hostel	152	1	80%	122	45	5.47
		372			302	630	30.58

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

Waste Generation / Handling:

- Excavated soil will be reused for backfilling and road construction. Spillage of oil from the machinery or cement residual from concrete mixer plants will be properly collected and disposed off. For construction laborers, proper sanitation facilities and good hygienic conditions will be maintained.

Water Supply:

- During the construction stage, arrangement has been made to get ETP treated water from the nearby hospital campus. It will be transported through tankers arranged by the contractor.

Waste Generation / Handling:

- Excavated soil will be reused for backfilling and road construction. Spillage of oil from the machinery or cement residual from concrete mixer plants will be properly collected and disposed off. For construction laborers, proper sanitation facilities and good hygienic conditions will be maintained.
- During the operational stage, wastewater generation will be approx. 26.35 kld.
- The treated wastewater generated will be 25 kld, which will be reused for flushing, and horticulture purposes.

Power requirement:

- For the proposed project, power will be supplied by State Electricity Board. The total power required for the Medical Institute is estimated to be as around 200 KW.
- For emergency purposes backup form the nearby Chirayu Hospital shall be used.

Connectivity:

- The SH-18 is the nearest state highway and the site is well connected to it by means of tarred roads. Raja Bhoj airport is just ~ 6 km away from the institute site and Bairagarh Railway station is nearest railway station ~ 3 km away from the project site.

Parking needs:

- For the project, ample parking space has been provided. During operational phase, parking space for 72 PCU will be provided. Details of proposed parking are as follows:

ame of the Building	uilt up area	Parking required each PCU	o. of PCU	Parking Area (sq. m.)	PCU
Cancer Research centre	3200 sqm	75 sqm	42 cars	open 1109 sqm	4 cars
ns Hostel	2078 sqm	100 sqm	21 cars	stilt 572 sqm	19 cars
Total Parking			73 cars		73 cars

Seismicity:

- The area under study falls in Zone-II, according to the Indian Standard Seismic Zoning Map. Suitable seismic coefficients in horizontal and vertical directions respectively, have to be adopted while designing the structures.
- During construction phase, some excavation is envisaged in order to provide foundations. This excavated soil (approx. 1865.00 m³) will be properly stacked within the site under

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

150th MEETING 26th September 2014

tarpaulin cover; and will be reused for backfilling purpose, road construction etc. as far as possible. Surplus earth will be given to contractors engaged in construction of road, bridge, highways etc. activities. Hence, no immediate adverse impacts on the land environment are envisaged.

- *Waste water management:* Domestic effluent will be discharged into the proposed STP of 30 kld capacity. The treated waste water will be reused for flushing, cooling & road washing purposes.
- *Treatment Technology:* Raw sewage effluent from different buildings shall be collected in the receiving/holding sump through the screen chamber having bar screen. From receiving sump, effluent will be pumped into the fluidized aerobic bio-reactor for aeration using nitrifying and denitrifying bacteria. Aeration tank shall be fitted with diffusers for supplying air (oxygen) through twin lobe roots air blower and will have suspended media. From here, effluent will be taken into the secondary settling tank for settling of bio sludge. The settled sludge can be used as bio-fertilizer for plantation after vermin-composting in the vermin beds/sludge drying beds. Clear effluent will be taken into the filter feed pump sump from where effluent will be pumped into the pressure sand filter and activated carbon filter for tertiary treatment. Effluent will be then passed through the micron filtration system before it is used for gardening or toilet flushing purpose. On line hypochlorite dosing will be done to ensure proper disinfection.
- *Recycle and Reuse:* The treated wastewater from sewage treatment plant will be recycled and reused for flushing, road washing and horticultural purposes.
- Dual plumbing system will be provided.

Mitigation Measures for Air Pollution during Construction Stage

Various construction activities especially related to handling of loose material is likely to cause generation of fugitive dust that adversely impact the air quality of the surrounding area of the project site. To minimize such impact following measures shall be taken:

- All the loose material either stacked or transported shall be provided with suitable covering such as tarpaulin cover.
- Water sprinkling shall be done at the location where dust generation is anticipated.
- Raw material handling yard will be enclosed from all sides
- To minimize the occupational health hazard, proper personal protective gears i.e. mask shall be provided to the workers who are engaged in dust generation activity.

Mitigation Measures for Noise Pollution during Construction Stage

- During the construction stage, expected noise levels shall be in the range of 80-85 dB (A) which will decrease with increase in distance as per the Inverse Square Law. Administrative as well as engineering control of noise will be implemented. Isolation of noise generation sources and temporal differentiation of noise generating activities will ensure minimum noise at receiver's end. To prevent any occupational hazard, ear muff / ear plug shall be given to the workers working around or operating plant and machinery emitting high noise levels. Use of such plant or machinery shall not be allowed during night hour. Careful planning of machinery operation and scheduling of operations shall be done to minimise such impact.
- As per the manual on municipal solid waste prescribed by Central Public Health and Environmental Engineering Organization (CPHEEO), the quantity of municipal solid waste generated by working population and residential population varies between 0.1 to 0.4

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

kg/capita/ day. The solid waste will comprise biodegradable waste e.g. domestic waste, horticultural waste etc. and recyclable waste, like plastic, paper etc. As the proposed project is a medical institute which will have a running hospital within its premises so rate of municipal solid waste generation per bed can be considered as 1 kg/bed/day and bio-medical waste generation per bed has been considered as 0.3 kg/bed/day.

Municipal Solid Waste during operational phase:

- Private sweepers will be engaged for handling domestic waste.
- Door to door waste collection service will be practiced.
- Bins will be located at strategic location for collection of Municipal Solid Waste from common areas.
- Horticultural waste shall be separately collected and disposed off following proper norms.
- No burning of waste will be allowed.
- Adequate number of collection bins separately for biodegradable and non-biodegradable waste shall be provided as per the Municipal Solid Waste (Management and Handling) Rule, 2000. Waste from such bin shall be collected separately on daily basis.
- The waste will be collected at a centralized collection chamber and will be segregated with the help of rag pickers/ private staff equipped with hand held mechanical tools and PPEs. Thus manual handling of waste will be minimized as far as possible.
- The recyclable fraction will be sold to local recyclers and non recyclable fraction will be handed over to municipal authority for final disposal.

Apart from Municipal solid waste, approx, 23.40 kg of Bio-medical waste will also be generated from the hospital complex. Thus appropriate measures will be undertaken to segregate, handle and manage the bio-medical waste as per Biomedical waste management and handling rules, 1998 (as amended in 2000) and for further treatment and incineration, it will be handed over to authorized vendors by MPPCB.

Energy conservation

Energy Conservation Measures & Management Plan:

- In the operational phase, appropriate energy conservation measures & management plan will be adopted in order to minimize the consumption of non-renewable fuel. The following measures are suggested to be adopted.
- Compact fluorescent lamps will be used in place of incandescent and halogen lamps in all common areas and basement parking.
- PVC insulated copper conductor cable will be used for wiring purpose.
- The water supply pumping system shall be provided with variable speed drive to conserve energy at part load.
- CFL lamps and low loss blasts shall be planned for Energy conservation.
- Lighting and switching shall be designed by keeping in mind day light integration.
- Roof insulation shall be planned to conserve energy.
- Capacitor banks shall be planned for improving the power factor of the power supply.
- Solar water harvesting systems and solar powered street lights shall be used to conserve energy.
- These measures will effectively cut down the electricity/ diesel consumption.
- Glazed Glass of U-factor of 0.36 will be used in the project. This absorbs approx. 30% to 45% of the solar radiation heat incident on the glass surface, depending on tint and

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

thickness. These glass panes will have high light transmission, but low solar heat inflow. This will reduce the quantity of heat flowing into the buildings, lessens cooling load on air-conditioners and induces energy saving.

- Building design and envelope has been optimized through selection of appropriate wall and roof construction material and design and through adoption of solar passive measures after studying the sun path analysis to provide shading devices for windows and roof which would reduce energy demand. Louvers and sunshades will be used around windows in order to protect from direct sunlight. Roofs will be painted with reflective, aluminum based paints with solar reflectance ranging from 0.3-0.6. Use of recessed windows, which can be recessed 600 to 700 mm from the external wall will reduce the load due to solar radiation by 30%.and it will effectively reduce the heat load of the building envelope.

Fire Fighting System:

- The basic system for Fire Fighting shall be designed as per the provisions of the National Building Code.
- Fire hydrants outlets will be provided at a spacing of every 100-200 m having diameter of approximately 4 inches.
- For the fire protection purpose provision, there will be underground reservoirs and overhead tank of adequate capacity. Water from reserve tanks will be drawn by electrically driven fire pump and supplied into hydrant ring main. The system will be kept pressurized at all times in order to ensure instant availability of water at all points. Minor line losses would be made up by an on-line jockey pump. A diesel engine driven fire pump will also be provided as a stand by.
- Capacity of water tank for fire-fighting will be 200 KLD.

Fire Safety

- The building materials shall be of appropriate fire resistance standard. Further, design shall include provision for the following:
- The electrical systems shall be provided with automatic circuit breakers activated by the rise of current as well as activated by over current.
- Fire detection systems at appropriate places.
- Fire Alarm systems at appropriate places.
- Means of escape,
- Access for fireman
- Adequate fire fighting requirement shall be taken into account while designing the electrical distribution system

The Compliance report of EC conditions was discussed at length in the meeting. It was brought to the notice of the committee that the conditions of the EC granted to the existing project have been monitored by MoEF which is available with SEAC. Thus based on the submissions of PP and compliance report of MoEF the case was recommended for grant of prior EC for the project including the proposed expansion, subject to the following conditions.

1. Compliance of all the directions / Judgment issued by NGT or other Courts shall be binding on part of the PP.
2. Zero-discharge condition shall be ensured and under no circumstance water should be discharged from the premises.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

3. Complete disinfection of the treated waste water from ETP and STP has to be ensured before re-using the same for the proposed auxiliary utilities.
4. Should ensure that Rain water harvesting pit should not get contaminated.
5. The STP sludge after press-filtration shall be disposed off with MSW.
6. The MSW shall be disposed off at the designated disposal site of the city.
7. Total fresh water demand shall be met from the municipal water supply.
8. Air monitoring shall be carried out periodically as per the directions of MPPCB.
9. Appropriate STP / ETP proposed / presented in meeting shall be installed and the same be monitored for effective treatment by MPPCB.
10. The approved fire-fighting plan shall be submitted to SEIAA, before commencement of the operational phase.
11. DG sets shall have the pollution control system as prescribed by the CPCB.
12. BMW and Hazardous wastes expected to generate from the project shall be disposed off as per the provisions of the respective rules after due permissions from the MPPCB.
13. The premises should be energy efficient by adapting ECBC guidelines where ever possible.
14. Maximum use of photovoltaic (solar) system shall be explored in the premises.

2. Case No. 1755/2014 Shri K. Suresh, Principal Secretary, Govt. of M.P., G.A.D., Mantralaya, Arera Hills-Bhopal, Distt. - Bhopal (M.P.) 462004 Apply 8(a) Cat., Vallabh Bhavan (Mantralaya) Extension at Khasra No. – Part of 1477, Part of 1478, Part of 1484, Part of 976/1478, Part of 1928/1478, Village- Bhopal City, Tehsil – Huzur, Distt. – Bhopal (M.P) Existing Built up area - 26797.00 Sqm., Proposed Total Plot Area - 127580.00 Sqm. Total covered area of Project including the existing block will be 106100.8 Sqm. (Building Construction project)

This is building construction project. The project pertains to expansion of existing construction. Existing built-up area is reported to be **127580.00 Sqm.** The total built-up area after expansion shall be 106100.8 m². Accordingly the projects falls under item 8 (a) of the schedule of EIA Notification and requires prior EC before commencement of the proposed expansion works. The applications along with relevant documents were forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The salient features of the project and various submissions were made by the project proponents and their consultant before the committee. The presentation reveals following:

- Vallabh Bhavan ÷Mantralayaø is one of the most and important buildings of Madhya Pradesh Government and was constructed in the year 1962 under Construction Division No. II of CPA
- The Architectural services for this building were provided by the Chief Architect, MP P W D. The constructed area of the building is 26797.00 Sqm.
- It is now proposed for the expansion of Vallabh Bhavan.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

- The extension project will consist of a Vallabh Bhavan ó I, Vallabh Bhavan ó II, Utility Block and a Multilevel Parking block

Salient features:

Description	Details
Name of the Project proponent	Genral Administration Department. Mantralaya
Location	Bhopal
Total plot Area	1,27,580.00 Sqm.
Built Up Area	1,06,100.8 Sqm.
Nearest Highway	NH ó 86 : 6.2 km (E)
Nearest Railway Station	Habibganj Railway Station - 2.5 km
Nearest Airport	Raja Bhoj Airport; 11 km (NW)
Nearest water bodies	Lower Lake - 1.5 km (NW) Upper Lake ó 3.0 km (NW) Shah Pura Lake ó 3.0 km (S)
Nearest eco sensitive areas	Van Vihar National Park ó 5.0 km (W)
Estimated Population	9101 No.s (Staff : 2378 + Visitors : 6723)
Water Requirement	Total water requirement-494 KLD Domestic water requirement-208 KLD Fresh water requirement-351 KLD Source : Nagar Nigam
Power Requirement	9.23 MVA
Emergency power backup	4 DG sets of 1250 KVA capacity
Solid Waste Generated	1602.95 kg/day

Area statement

SN	Description	Unit	
A	Plot size (Area of Site)	Sqm	
B	Area under road widening	Sqm	
C	Net site area after road widening	Sqm	
D	Total built up area	Sqm	

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

			Max. Permissible	Provided/ achieved
E	Ground coverage	%	25	24.5
F	Ground coverage	Sqm	29133.26	28555.97
G	Open parking area	Sqm	14023.00	
H	Permissible far	Sqm	1:2	1:0.66
I	Far area (on net site area)	Sqm		77909.35

Floor Wise Area Details (sq. m.)

Floors	Vallabh Bhavan – I	Vallabh Bhavan – II	Existing block	Utility block	Multilevel parking
Basement /lower ground floor	Nil	Nil	2767.24	Nil	3421.68
Ground floor	6600.65	6600.65	4916.79	-	6368.18
First floor	4770.69	4770.69	4770.08		6199.3
Second floor	5661.66	5661.66	4770.08		6199.3
Third floor	3348	3348	4770.08		6199.3
Fourth floor	2396.35	2396.35	4770.08		
Fifth floor	2392.82	2392.82			
Covered area	25676.9	25676.9	26797.00	3450.00	24500.00
Total					106100.8

Daily water requirement

Description	Occupancy	Demand (lpcd)	Total requirement in KLD
Staff	2378	45	107.01
Visitors	6723	15	100.845
		Total	207.86
		say	208
	Area	l/sqm	
Horticulture water requirement	48343.45	3	145.03
		say	145
	KVA	lt/KVA/hr	
DG set cooling	5000	0.9	18
		say	18

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

	TR	lt/TR/hr	
HVAC	1400	11	123
		say	123
Total water requirement			494

Water and wastewater management

Likely Impact	Management / Mitigative Measures
A) During Construction Phase	
Source : Nagar Nigam	<ol style="list-style-type: none"> The site drainage shall be planned in such a way that there is no accumulation of waste water within the project premises or in the vicinity of the site. Mobile type sulabh shauchalayas to be provided for construction laborers.
B) During Operation Phase	
Source : Nagar Nigam Total Water Demand = 494 KLD Domestic = 208 KLD Total Fresh water Demand = 351 KLD Flushing = 63 KLD Wastewater Generation = 179 KLD	<ol style="list-style-type: none"> STP of 20% higher capacity proposed to treat wastewater. Drip & Sprinkler irrigation shall be done for reducing water demand. Treated sewage shall be used for Horticulture, flushing and DG cooling.

Solid waste management (During construction phase)

Likely impact	Management/ mitigative measures
A) during construction phase	

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

<p>Waste generated from bricks, concrete, MS rods, tiles, construction material, etc Soil will be excavated periodically from earth work in phased manner.</p>	<ol style="list-style-type: none"> 1. Construction yards are proposed for storage of construction waste materials. 2. Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers. 3. Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project. 4. Remaining soil shall be utilized for refilling / road work / raising of site. 5. There shall be Refuse Containers at site for the management of domestic waste generated by the construction labourers and these containers shall be emptied at least once daily.
---	---

Solid waste generation (during operation phase)

S N	Description	Occupancy	kg/capita/day	Total solid waste generated in kg
a	Staff	2378	0.25	594.5
b	Visitors	6723	0.15	1008.45
Total solid waste generated				1602.95

EMP:

Solid waste management plan (During operation phase)

S. No.	Likely Impact	Management / Mitigative Measures
B) during operation phase		
1.	1602.95kg per day (@ 0.15 kg per capita per day for the visitor, 0.25 kg per capita per day for the staff members). a)60% bio-degradable waste b)30% non-bio degradable c)10% inert waste	<ol style="list-style-type: none"> 1. Adequate number of colored bins (green, blue and dark grey) separate for bio-degradable and non-biodegradable are proposed to be provided at the strategic locations within the site. 2. The solid waste will be segregated at source & collected. 3. The inert solid waste will be transported to a local Solid Waste dumping site. 4. STP sludge is proposed to be used for
2.	Periodic STP sludge	
3.	Horticulture Waste	

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

150th MEETING 26th September 2014

		horticultural purposes as a manure. 5. Horticultural Waste is proposed to be composted and used for gardening purposes.
--	--	--

Bio-Degradable waste

É Bio-degradable waste will be collected in the secondary processing area and fed to an Organic Converter the compost will be used as manure.

É STP sludge is to be used for horticultural purposes as manure.

É Horticultural Waste is to be composted and will be used for gardening purposes.

Recyclable waste

É The segregated recyclable waste will be sold off to vendors

Inert waste

É The inert waste collected at site will be sent to landfill through the municipal waste handling system

Parking details:

Permissible No. of Parking : @ 1 ECS/ 75 sqm = 81600/75 = **1088 ECS**

Provided ECS: **1202**

Green Area / Landscape details

- For the project Greenery will be provided in 48343.45 Sq. m. (41.48%) of area, which will enhance the beauty of the site and help combat air and noise pollution.
- At least 24.8% of the plot area has been devoted for tree plantation along roads sides & within plots.
- At least 16.6% of plot area is reserved for herbs and shrubs. (Lawns and parks)
- A diverse variety of indigenous evergreen and ornamental trees would be planted.
- The plant species will be selected on the basis of Urban Standard Plantation norms and CPCB guidelines.
- Plantation for Arresting dust, absorbing Sulphur dioxide Emissions and reduce Noise Pollution

It was reported by the PP that, trees cut during Construction phase : 255 and amount paid to Forest department against compensation is Rs. 14,02,500=00.

Fire Fighting

It was submitted that approval on fire fighting plan is due from the department and the same shall be obtained after other approvals. The proposed fire fighting plan includes following:

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

The fire fighting system has been designed considering the following codes, manual and guidelines;

Standard codes:

- ~ National Building Code of India (NBC);
- ~ As per requirement of fire officer/local fire approving authorities; and
- ~ As per Indian Standard Code for Fire Protection (IS Codes)
- ~ The fire resistance rated materials like concrete, vermiculite etc as per IS-15103:2002
- ~ Electrical installations from fire safety point of view shall comply with IS-1646:1997
- ~ Code of practice for Installation and maintenance of internal fire hydrants and hose reels
- ~ Code of practice for protection of building and allied structures during lightning etc.

Firewater storage

- ~ Under Ground Static firewater storage tank for Fire Protection System has been provided at Ground level of 200 cu-m capacity

~ **Fire pumping system**

- | | | | |
|------------------------------|----------|----------|------------|
| a. Electric Hydrant Pump | Capacity | 2280LPM | 65 Mt head |
| b. Diesel Engine Driven Pump | Capacity | 2280 LPM | 65 Mt head |
| c. Jockey Pump | Capacity | 180 LPM | 65 Mt head |

~ **Fire hydrant system**

- a. Internal and external standpipe fire hydrant system are provided with landing valve, hose reel, first aid hose reels, complete with instantaneous pattern short stainless steel in the Complex.
- b. External hydrant shall be located within 2 m to 15 m from the building to be protected such that they are accessible and may not be damaged by vehicle movement. A spacing of about 45-50 m between hydrants shall be adopted.

Capital Cost For EMP

S. No.	Parameters	Cost (lac Rs.)
I.	Water pollution control	
	Sewage Treatment Plant	70
	Rain Water Harvesting System	10
	Sub Total	80
II.	Solid Waste Management	
	Solid Waste Collection Bins and Composting System	20

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

III.	Green area development	35
IV.	Others (Energy saving, Environmental Monitoring, etc.)	25
	Grand Total	160

After deliberations Committee observed the submissions satisfactory and acceptable. Hence the case was recommended for grant of prior EC subject to the following conditions:

1. The segregated bio-degradable MSW shall be composted in the composter proposed in the project.
2. The STP sludge after press-filtration shall also be taken to the composter.
3. The other MSW shall be disposed off at the designated disposal site of the city.
4. Total fresh water demand shall be met from the municipal water supply.
5. Air monitoring shall be carried out periodically as per the directions of MPPCB.
6. Appropriate STP as discussed in the meeting shall be installed and the same shall be monitored for effective treatment by the MPPCB. Additional use of secondary settling, activated carbon filter recycling of sludge in aeration tank will also be provided.
7. The compensatory plantation as proposed has to be completed along with the construction activities.
8. The approved fire-fighting plan shall be submitted to SEIAA, before commencement of the operational phase.
9. DG sets shall have the pollution control system as prescribed by the CPCB.
10. The premises should be energy efficient by adapting ECBC guidelines where ever possible.
11. Maximum use of photovoltaic (solar) system shall be explored in the premises.

Mining Projects

1. **Case No. -1742/2014** Shri Rajendra Jain S/o Shri Gendalal Jain, Vill. – Tanda, The. – Kukshi, Distt. – Dhar (M.P.) Kharwali & Magdi Basalt Stone Quarry at Khasra No. – 68/1 & 122/1/1, Village- Kharwali, Tehsil – Kukshi, Distt. – Dhar (M.P.) **Lease Area – 2.0 Ha., Lease Period – 10 Year , Capacity – 6920 Cu.mt./Year.**

This is a case of mining of stone. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 68/1 & 122/1/1, Village- Kharwali, Tehsil – Kukshi, Distt. – Dhar (M.P.)* in 2.00 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

150th MEETING 26th September 2014

mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. It was reported that no mine is operating within 500 meters from the proposed project site. PP has reported that the pit formed after mining shall be developed into a water body. 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:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Air pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
5. Transportation of material shall be done in covered vehicles.
6. Curtaining of site shall be done using appropriate media.
7. Production of stone boulder shall be *6920 m³/Year and the average depth of the pits shall not exceed 6.00m at the end of 10 years.*
8. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat

- 2. Case No. 1743/2014** Shri Ajeet Navlani S/o Shri Mangatram Navlani, Sindhi Colony, Itarsi, Distt. – Hoshangabad (M.P.) Mohari Soil Quarry For Bricks Manufacturing at Khasra No. – 427/1, 427/2, 427/3, 427/4, Village- Mohari, Tehsil – Dolariya, Distt. – Hoshangabad (M.P.) **Lease Area – 1.710 Ha** , Lease Period – 10 Year, Capacity – 1900 Cu.mt./Year.

This is a case of mining of soil for brick manufacturing. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. – 427/1, 427/2, 427/3, 427/4, Village- Mohari, Tehsil – Dolariya, Distt. –

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

Hoshangabad (M.P.) in 1.710 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. It was reported that no mine is operating within 500 meters from the proposed project site. PP has reported that the pit formed after mining shall be developed into a water body. 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:

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. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Transportation of material shall be done in covered vehicles.
4. Curtaining of site shall be done using appropriate media.
5. Maximum Production of soil shall be *1900 m³/Year and the average depth of the pits shall not exceed 3.00m at the end of 10 years.*
6. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
7. Transportation shall not be carried out through forest area.
8. PP shall take CSR activities in the region through the Gram Panchayat

3. Case No. 1744/2014 Shri Atul Ajmera R/o 103, Jain Colony, Sanawad, Tehsil - Barwani ,Distt. Dhar (M.P.) Inpun Stone (Gitti) Quarry at Khasra No. – 325, Village- Inpun, Tehsil – Punasa, Distt. – Khandwa (M.P.) Lease Area – 2.00 Ha. Lease Period – 10 Year, Capacity – 30,000 Cu.mt./Year.

This is a case of mining of stone. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 325, Village- Inpun, Tehsil – Punasa, Distt. – Khandwa (M.P.) (Latitude- 22°11'45.6"N , Longitude- 76°05'27.0"E)* in 2.00 Ha. The project requires prior EC before commencement of

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

150th MEETING 26th September 2014

any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. It was reported that no mine is operating within 500 meters from the proposed project site. PP has reported that the pit formed after mining shall be developed into a water body. 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:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Air pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
5. Transportation of material shall be done in covered vehicles.
6. Curtaining of site shall be done using appropriate media.
7. Production of stone boulder shall be *30000 m³/Year as per the approved mining plan.*
8. The mining shall be restricted up to 1 meter above the water level. After which hydro-geological studies shall be carried out with revised mining plan and EC. .
9. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
10. Transportation shall not be carried out through forest area.
11. PP shall take CSR activities in the region through the Gram Panchayat
12. Before forwarding the case to SEIAA, MPPCB may ensure that violation w.r.t consented production capacity or any other consent conditions has not been committed by the PP in past.

4. Case No. 1745/2014 Shri Nilesh Patel S/o Shri Arvind Patel R/o Goswami
Tulsidas Marg, Near Dr. Adhikari- Sanawad, Tehsil – Badwah, Distt. – Khargone

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

150th MEETING 26th September 2014

(M.P.) 45111 Morghadi Stone Quarry at Khasra No. – 323, 327, 321, 332, 336 and 319 Village- Morghadi, Tehsil – Punasa, Distt. – Khandwa (M.P.) Lease Area – 1.25 Ha., Lease Period – 10 Year , Capacity – 20,000 Cu.mt./Year.

This is a case of mining of stone. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. – 323, 327, 321, 332, 336 and 319 Village- Morghadi, Tehsil – Punasa, Distt. – Khandwa (M.P.) in 1.25 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. It was reported that 03 more mines are operating/proposed within 500 meters from the proposed project site with aggregate lease of of less than 25 Ha. PP has reported that the pit formed after mining shall be developed into a water body. 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:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Air pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
5. Transportation of material shall be done in covered vehicles.
6. Curtaining of site shall be done using appropriate media.
7. Production of stone boulder shall be restricted to 10000 m³/Year only.
8. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

150th MEETING 26th September 2014

11. Before forwarding the case to SEIAA, MPPCB may ensure that violation w.r.t consented production capacity or any other consent conditions has not been committed by the PP in past.

5. Case No. 1746/2014 Shri Ramesh Chandra S/o Shri Ratan Singh Dangi R/o Village- JarkhiSakrai, Tehsil – Gulana Distt. – Shajapur (M.P.) - 465220 JarkhiSakrai, Basalt Stone Quarry at Khasra No. – 684, Village- JarkhiSakrai,, Tehsil – Gulana, Distt. – Shajapur (M.P.) Lease Area – 2.0 Ha., Lease Period – 10 Year , Capacity – 5400 Cu.mt./Year.

This is a case of mining of stone. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 684, Village- JarkhiSakrai,, Tehsil – Gulana, Distt. – Shajapur (M.P.)* in 2.0 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the status leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into a water body. 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:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Air pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
5. Transportation of material shall be done in covered vehicles.
6. Curtaining of site shall be done using appropriate media.
7. Production of stone boulder shall be $5400\text{ m}^3/\text{Year}$ and mining shall be carried out as per the mining plan.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

8. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat

6. Case No. 1747/2014 Smt. Neelam Kothari W/o Shri Sourabh Kothari, Ward No. – 13, Station Road- Obedulaganj, Distt. – Raisen (M.P.) - 484336 Umariya Soil Quarry for Bricks Manufacturing at Khasra No. – 211,213/3, Village- Umariya, Tehsil – Goharganj, Distt. – Raisen (M.P.) Lease Area – 1.335 Ha. , Lease Period – 10 Year , Capacity – 2700 Cu.mt./Year.

This is a case of mining of Soil for brick kiln. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 211,213/3, Village- Umariya, Tehsil – Goharganj, Distt. – Raisen (M.P.)* in 1.335 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the status leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into a water body. 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:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Air pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
5. Transportation of material shall be done in covered vehicles.
6. Curtaining of site shall be done using appropriate media.
7. Production of Soil shall be $5400 m^3/Year$ and mining shall be carried out as per the mining plan.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

8. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat

7. Case No. 1748/2014 Shri Narayan Pawar, Partner , M/s Balaji Associates , MIG-30, Housing Board Colony, Distt. – Betul (M.P.) – 484336 Bothiya Braminwara Basalt Stone Quarry at Khasra No. –296/2,, Village- Bothiya Braminwara, Tehsil –Amla, Distt. – Betul (M.P.) Lease Area – 2.0 Ha., Lease Period – 10 Year , Capacity – 18000 Cu.mt./Year.

This is a case of mining of Stone mining. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. –296/2,, Village- Bothiya Braminwara, Tehsil –Amla, Distt. – Betul (M.P.) in 2.0 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operating or proposed within 500 meters from the boundary of the proposed mining site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the status leases with in 500 meters radius around the site and requisite information in the prescribed format duly verified from the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into a water body. The EMS submitted by the PP was found to be satisfactory and acceptable. The Certain discrepancies were found in the Mining Plan, such as the map provided by the Revenue department and that generated to show conceptual plan / surface plan were not matching. It was decided by the committee that the Mining Plans needed detailed examination and to be decided in the next meeting`.

8. **Case No. 1749/2014** Shri Manish Singh S/o Sh. R.A. Singh, Bhalumada, Th & Distt. – Anuppur (M.P.) Singh Metal Stone Quarry at Khasra No. – 623, Village- Majhgawan Tehsil & Distt. – Anuppur (M.P.) Lease Area – 1.214 Ha., Lease Period – 10 Year, Capacity – 5000 Cu.mt./Year.
9. **Case No. 1750/2014** Shri Khemkaran Sahu S/o Shri Narmada Prasad Sahu, Village - Mohgaon Tehsil- Ghughari Distt. – Mandla (M.P.) Patadei Metal Stone Quarry at Khasra No. –116, 117, Village- Patadei- Tehsil – Ghughari, Distt. –Mandla (M.P.) Lease Area –1.50 Ha., Lease Period – 10 Year , Capacity – 10869 Cu.mt./Year
10. **Case No. 1752/2014** Shri Mansaram Patidar S/o Shri Dhurji Patidar R/o Village – Ajandikot, Tehsil- Manawar, Distt. – Dhar (M.P.) 454446 Budiakhedi Basalt Stone Quarry at Khasra No. –296/2,, Village- Budiakhedi, Tehsil –Manawar, Distt. – Dhar (M.P.) Lease Area – 1.0 Ha., Lease Period – 10 Year, Capacity – 6992 Cu.mt./Year.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

Scrutiny of the Mining Plans of all the above projects revealed several issues such as absence of appropriate Surface Plans and difference in the co-ordinates shown in topo-sheet and that shown in the generated maps etc. It was decided by the committee that the Mining Plan shall be examined by the carefully by the expert members after the meeting and the decision / recommendation shall be taken up in the next meeting.

Other projects

- 11. Case No. – 714/2013 – Shri D.M. Nimje, Dy. General Manager (Operations) Indian Oil Corporation, M.P. State Office, 16, Arera Hills, Jail Road, Bhopal (M.P.) – 462011- EIA Presentation- Construction of additional tankage for MS & ATF and Tank Truck Loading Facility at existing IOCL terminal at Bangrod, District Ratlam. TOR issued vide L.No. 616 dated 25/09/2012 in 98th meeting.**

The EIA report and the Public Hearing proceedings were forwarded by SEIAA. The salient features of the project, impacts and proposed additional mitigations were discussed in the meeting. The case pertains to enhancement in the storage / loading capacities. Although PP and his consultant presented the compliances of the existing EC, the verification report from MoEF was not submitted. Hence PP was asked to submit the same at the earliest.

Cases for Approval / Issuance of TOR

Mining Projects

- 12. Case No. 1751/2014 M/s Chhindwara Mines Pvt. Ltd., Through Director Shri Annu Kohli, R/o L-1/9, Hauz Khas Enclave, New Delhi- 110016 – Gowri Wadona Manganese Ore Mine at Khasra No. –171, Village- Gowri Wadona - Tehsil – Sausar, Distt. –Chhindwara (M.P.) Lease Area –8.77 Ha., Lease Period – 20 Year (dt. 16/05/07 to 15/05/27) , Capacity – 10869 Cu.mt./Year. ToR
Env. Consultant: Creative Enviro Services, Bhopal (M.P.)**

The case pertains to mining of Manganese Ore in a lease area of 8.77 Ha. The project falls under category B-1 and is mentioned as item 1(a) in the schedule of the EIA Notification. 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. PP and his consultant presented the salient features of the project along with the proposed TOR. It is observed that the project pertains to expansion.

After deliberations committee approved standard TOR, with following additional points for EIA / EMP:

1. Compliance of EC conditions duly validated by MoEF shall be submitted and appropriately discussed in the EIA report.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

2. Micro-level details of 2Km radius around the site shall be presented separately depicting various sensitive receptors.
3. Conceptual plan shall be over-layered on the base map generated from satellite imagery.
4. Other standard TOR shall be applicable.

Building / Area Development projects

13. Case No. 1753/2014 Shri Ramdas Kamath, Sr. VP, Head Infrastructure and Security M/s Infosys Ltd. , Plot No. -44, Electronic City, Hosur Road, Bangalore -560100 -ToR (Building Construction) .- *Apply 8(b) Cat. Infosys Campus at Super Corridor at Village – Tigriya Badshah and Bada Bangarda, Tehsil – Hatod, Distt. - Indore (M.P.) Total Project Area – 5,26,415.55 m² Built-up Area- 3,00,489.74 m² Env. Consultant: DAS India, Lucknow(U.P.).*

This is building construction / Area development project. The project comprises of plot area of above 50 Ha and total constructed area of more than 150000 m². Accordingly the projects falls under item 8 (b) of the schedule of EIA Notification and requires prior EC before commencement of the proposed works. The applications along with relevant documents were forwarded by SEIAA to SEAC for appraisal and approval / issuance of additional TOR to carry out EIA and prepare effective EMP. The salient features of the project and various submissions were made by the project proponents and their consultant before the committee. The presentation reveals following:

The zone has already been approved for SEZ by Ministry of Commerce and Industry, Govt. of India and this project is coming in this zone.

A presentation was made by the project proponent and along with their consultant M/s ENV DAS (India) Pvt. Ltd and given to understand that:-

1. The environmental clearance is sought for Proposed Group Housing of Infosys, Indore, at Super corridor Indore, Madhya Pradesh.
2. Area details of the project are as follows:

Items	Details
Total Plot area	5,26,415.55 m ²
Ground coverage	Permissible: 30 % of Net Planning area Proposed: 34459.83m ² (6.55% of Net Planning area)
FAR	Permissible: 3 (9,91,386.81m ²) Proposed: 1.7 (1,77,631.31 m ²)
Non FAR (MLCP & service area)	1,18,320 m ²
Total Built up area	3,00,489.74 m ²
Green Belt Area	1,57,924.66 m ²

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

Items	Details
Landscape area	12,758 m ²
Plantation Area	145794.44 m ²
Total Green Area	316477.11m ² (60.12%)
No. of Trees	42,200
Lake Area	40099.44 m ² (5 in No.)
Paved/ Open Area	135379.18 m ² (25.71%)
Height of Building	Approx 45 m (G+10 Floors)
Parking facilities	Required : 3316 ECS Provided: 4975 ECS (Surface- 1031 ECS, MLCP-3944 ECS)
Power requirement& source	6039 KW or 6357 KVA (@ 0.95 P.F) Source: MPSEB (Madhya Pradesh State Electricity Board).
Power backup	DG Sets: 4 no. x 2000 KVA

- Total Water Requirement: 784KLD
- STP Details: 1000 KLD (SAFF)
- Power Requirement: 6357 KVA
- Back-up Power: 4 X 2000 kVA DG Sets
- Solid Waste Generated: 3732 Kg/Day
- The quantity of earth to be excavated is proposed as 2, 56, 000 m³
- Parking Required: 3316 ECS, Parking Provided: 4975 ECS
- The Project proposal falls under Category 8(b) of EIA notification, 2006.

It was requested by the PP that baseline data collection has been done hence the same be allowed to be used in the EIA / EMP. Also it was submitted by the PP that if allowed the EIA report can be submitted within 30-45 days. Committee considered the request and suggested following additional TOR to be addressed in the EIA / EMP:

1. Plantation scheme with details of species, year-wise schedule of plantation etc to submitted.
2. Detailed water requirement in the project including the quantum of water required for cooling.
3. Justification for no. of AAQMS in the study area.
4. Soil excavation details including ó quantum, storage and ultimate use.
5. Base line data as per standard TOR reported to be collected already ó may be used after 15 days validation of the same.
6. Details of the reported PIL to be furnished.
7. MSW is reported to composted; details of composter, its location, end use of the compost etc to be addressed.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

8. Details of BMW expected from the PHC to be addressed.
9. Details of RO reject- its suitability to be used for irrigation purpose.
10. STP sludge is proposed to be composted; details thereby.
11. Line modeling study to be conducted for existing traffic load and expected incremental pollution load after the project is operational.
12. Other standard TOR shall be applicable.

Cases from Supplementary Agenda

Cases appraised for EIA / EMP and B-2 category

Building / Area Development Projects

1. **Case No. - 1765/2014** Shri Kanhiya Lal, Executive Engineer , Central Academy of Police Training CAPT Project Division, CPWD, Kanhasiyya, Tehsil – Huzur, Distt. – Bhopal (M.P.) **For – Building Construction.** *Central Academy for Police Training of Bureau of Police Research and Development Ministry of Home Affairs, Government of India. Total Land Area- 106.15 Ha., at Khasra No. 197, 198, 204, 261, Village-Kanhasiyya, Tehsil – Huzur, Distt. – Bhopal (M.P.) Institutional Campus development with Proposed Built Up Area – 59383.84 Sqm. Env. Consultant: Creative Enviro Services, Bhopal (M.P.)*

PP could not clear the net planning area which has been taken up for the project, Committee asked to submit the same. Based on PP's request the case was deferred for consideration in the meeting scheduled for 27/09/2014 if PP could submit the desired information immediately.

Minor Mineral Mining Projects

2. **Case No. - 1766/2014** Shri Ramashankar Pathak, M/s Jai Jagdambey Stone Crusher, Village-Chitrangi, Tehsil-Chitrangi, District-Singrauli (M.P.)-486882 *Bhanni Metal Stone Quarry of M/s Jai jagdambey Stone Crusher at Khasra No.- 530/850. at Village-Bhanni, Tehsil-Beohari, District-Shahdol (M.P.) Lease Area - 1.473 ha. Lease Period – 10 Year. Capacity – 3786 Cu.mt./Year. Env. Consultant: Not mentioned.*
3. **Case No. - 1767/2014** Shri Manoj Patidar, M/s Shri Ram Stone Crusher, 59/5, Patel Marg, Patidar Mohalla, Tehsil-Kukshi, District-Dhar (M.P.)-454001 *Aali Metal Stone Quarry Lease Area -1.00 ha., Lease Period- 10 Year, at Khasra No. 21/2,22/2, Village-Aali, Tehsil-Kukshi, District-Dhar (M.P.) Capacity – 8550 Cu.mt./Year. Env. Consultant: Not mentioned.*
4. **Case No. - 1768/2014** Shri Jaggu Pachaya S/o Shri Rhadu Pachaya, Village-Bokdiya, Tehsil-Katthiwada, District-Alirajpur (M.P.)-457885 *Agalgota River Sand Quarry of Shri Jaggu Pachaya Lease Area - 10.00 ha. at Village-Agalgota, Tehsil-Katthiwada, District-Alirajpur (M.P.) Lease Period – 05 Year. Capacity – 99,000 Cu.mt./Year. Env. Consultant: Not mentioned.*

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

Scrutiny of the Mining Plans of all the above projects revealed several issues such as absence of appropriate Surface Plans and difference in the co-ordinates shown in topo-sheet and that shown in the generated maps etc. It was decided by the committee that the Mining Plan needed detailed examination and to be decided in the next meeting.

Following minor mineral mining projects listed in the supplementary agenda could not be taken up for deliberation due to shortage of time. It was decided by the committee that two days meeting shall be arranged on 9th and 10th October exclusively for these projects including the minor mineral mining projects which have been listed in the supplementary agenda of tomorrow's meeting (i.e. 151st Meeting) -

5. **Case No. - 1769/2014** Shri Edi Pachaya W/o Shri Bhadu Pachaya, Village-Bokdiya, Tehsil-Katthiwada, District-Alirajpur (M.P.)-457885 Chandpur River Sand Quarry Lease Area - 6.00 ha., Khasra No. 1272 at Village-Chandpur, Tehsil-Katthiwada, District-Alirajpur (M.P.) Lease Period – 05 Year, Capacity – 29,700 Cu.mt./Year. Env. Consultant: Not mentioned.
6. **Case No. - 1770/2014** Shri Mahendra Pachaya S/o Shri Bhadu Pachaya, Village-Bokdiya, Tehsil-Katthiwada, District-Alirajpur (MP)-457885 Sajanpur River Sand Quarry Lease Area - 10.00 ha. at Khasra No. 513, Village-Sajanpur, Tehsil-Katthiwada, District-Alirajpur (M.P.) Lease Period – 05 Year, Capacity – 1,48,500 Cu.mt./Year. Env. Consultant: Not mentioned.
7. **Case No. - 1771/2014** Smt. Jayanti Bai Patidar W/o Shri Sitaram Patidar, Village-Talawadi Road Kukshi, Tehsil-Kukshi, District-Dhar (M.P.)-454331Kuhdigpura Basalt Stone Quarry Lease Area - 1.50 ha., Khasra No. – 523/1 at Village-Kuhdigpura, Tehsil-Kukshi, District-Dhar (M.P.) Lease Period – 10 Year, Capacity – 8011 Cu.mt./Year. Env. Consultant: Not mentioned.
8. **Case No. - 1772/2014** Shri Subhash Kumar, Shanti Bihar Colony- Rewa, Distt. - Rewa (M.P.)-486001 Parasi Masonry Stone Quarry Lease Area - 3.35 ha., at Khasra No.- 1166, Village-Parasi, Tehsil-Sarai, District-Singrauli (M.P.) Lease Period – 10 Year, Capacity – 7687 Cu.mt./Year. Env. Consultant: Not mentioned.
9. **Case No. - 1773/2014** Shri Dinesh Kumar Gautam S/o Shri Shambhu Prasad Gautam, Shanti Bihar Colony, Rewa (M.P.)-486001 Karami Metal Stone Quarry Lease Area - 4.80 ha., at Khasra No.-131/1,130, Village-Karami, Tehsil-Mada, District-Singrauli (M.P.) Lease Period – 10 Year, Capacity – 49091 Cu.mt./Year. Env. Consultant: Not mentioned.
10. **Case No. - 1774/2014** Smt. Priyanka Tivhan W/o Shri Sandesh Tivhan, Chhindwara Chowk, FCI Road, Seoni , Distt. – Seoni, (M.P.)-480661 Stone/Boulder Quarry Lease Area - 3.00 ha., at Khasra No.- 468, Village-

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]

MINUTES OF STATE EXPERT APPRAISAL COMMITTEE
150th MEETING 26th September 2014

Gadarwara, Tehsil-Seoni, District-Seoni (M.P.) Lease Period – 10 Year, Capacity – 11,400Cu.mt./Year. Env. Consultant: Not mentioned.

11. **Case No. - 1775/2014** Shri Amar Singh S/o Shri Ratan Singh, Village-Arthi, Tehsil-Katthiwada, District-Alirajpur (M.P.) River (Arthi Village) Sand Auction Quarry Mining Lease Area - 5.19 ha. at Khasra No. – 1,510/11,53, Village-Arthi, Tehsil-Katthiwada, District-Alirajpur (M.P.) Lease Period – 10 Year, Capacity – 14,850Cu.mt./Year. Env. Consultant: Not mentioned.
12. **Case No. - 1776/2014** Shri Sunil Sharma, 46, Jawahar Marg, District-Barwani (M.P.) Basalt Stone Quarry Lease Area - 2.00 ha. at Khasra No. – 475/1, Village-Borlay, Tehsil-Barwani, District-Barwani (MP) Lease Period – 10 Year, Capacity – 22800 Cu.mt./Year. Env. Consultant: Not mentioned.
13. **Case No. - 1777/2014** Shri Guman Singh S/o Shri Naan Singh, Village-Akola, Tehsil-Katthiwada, District-Alirajpur (M.P.) River Sand Auction Quarry Mining Proposal Lease Area - 10.00 ha. at Khasra No. – 221 Village-Akola, Tehsil-Katthiwada, District-Alirajpur (M.P.) Lease Period – 05 Year, Capacity – 49500 Cu.mt./Year. Env. Consultant: Not mentioned.
14. **Case No. - 1778/2014** Shri Bhab Singh S/o Shri Ugada Ji, Town & District-Alirajpur (M.P.) Auction Quarry River Sand Mining Lease Area - 6.00 ha. at Khasra No. – 60. at Village-Badi Khattali, Tehsil-Jobat, District-Alirajpur (M.P.) Lease Period – 05 Year, Capacity – 17072 Cu.mt./Year. Env. Consultant: Not mentioned.
15. **Case No. - 1779/2014** Shri Kendriya S/o Shri Bhangda Ji, Town & District-Alirajpur (M.P.) Auction Quarry River Sand Mining Lease Area - 7.00 ha. at Khasra No. – 01, at Village-Dabadi, Tehsil-Sondhwa, District-Alirajpur (M.P.) Lease Period – 05 Year, Capacity – 15147 Cu.mt./Year. Env. Consultant: Not mentioned.
16. **Case No. - 1780/2014** Shri Prashant Soni S/o Shri Bikal Bihari Soni, Village-Pipariya, Tehsil-Niwas, District-Mandla (M.P.)-481885 Stone/Boulder Quarry Lease Area - 1.00 ha. at Khasra No. – 15,16. at Village-Pipariya, Tehsil-Niwas, District-Mandla (M.P.) Lease Period – 05 Year, Capacity – 9974 Cu.mt./Year. Env. Consultant: Not mentioned.

It was decided by the committee that two days meeting shall be arranged on 9th and 10th October 2014 exclusively for the minor mineral mining listed in the supplementary agenda of 150th and 151st Meetings. Other similar cases may also be considered if received meanwhile.

Meeting ended with thanks to the Chair and the Members.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[Dr. Srinivasan Krishnan Iyer., Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member] [Dr. U.R. Singh, Member]

[A.A. Mishra, Secretary]