

The 172nd meeting of the State Expert Appraisal Committee (SEAC) was held on 22nd February, 2015 under the Chairmanship of Dr. R. B. Lal. The following members attended the meeting-

1. Dr. MohiniSaxena, Member
2. Shri K.P. Nyati, Member
3. Shri A.P. Srivastava, Member
4. Shri Manoj Pradhan, Member
5. Dr. Srinivasan Krishnan Iyer, Member
6. Shri Manohar K. Joshi, Member
7. Dr. U.R. Singh, Member
8. Dr. Alok Mittal, Member
9. Shri Rameshwar Maheshwari, 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:

Confirmation of the minutes of 169th, 170th and 171st meetings dated 27th to 29th January 2015 - minutes of 169th, 170th and 171st meetings dated 27th to 29th January 2015 were discussed and finalized in the meeting.

1. Case No. - 1714/2013 M/s Unichem Laboratories Ltd. , Plot No. – 197, Sector-1, Industrial Area - Pithampur, Distt. – Dhar (M.P.) – 474775 Expansion/Modification of Drug Intermediate Plant of M/s UNICHEM Laboratories Ltd. at Pithampur Industrial Area, Distt. – Dhar (M.P.) Proposed Capacity: 400MT/Year of different APIs, Existing Capacity: 155 TPA, Area – 79819 m2. (ToR issued vide letter No. 730 dt 11/10/13.) – EIA Presentation

This is Bulk Drug production project comprising expansion and modification in an existing unit. Plot area of the project is 79819 m2. Proposed Capacity is 400MT/Year of different APIs, The existing capacity is reported to be 155TPA. The project is covered under the provisions of EIA Notification as item no. 5(f). Hence requires prior EC before commencement of activity at site. TOR was issued for the project to carry out EIA / EMP vide letter dated 11/10/2013. The EIA report submitted by the PP was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The salient features and EMP were presented by the PP before the committee.

Project Background:

Item	Detail
Project Name	Expansion of Bulk Drug Intermediate Manufacturing Unit.
Location	Plot No. 197, Sector ó 1, Pithampur Industrial Area, Dhar, Madhya Pradesh (Lat: 22° 37ø20ö N; Long.: 75° 41ø59"E).
Type of Project	Expansion (Increase in Production Capacity & No. of APIs)
Production Capacity	Existing: 155 MTPA. Proposed Expansion: 245 MTPA. After Expansion: 400 MTPA.

Status of EC/ Consent for the Existing Unit

- The existing unit was established in 2003. Hence, Environmental Clearance was not required.

- The existing production capacity is 155 MTPA, which was issued with Air and Water Consent for the production of 16 APIs. Of which the production of four APIs have been stopped.

Production Details – Existing and Proposed

Category I (Bulk Drug) ó 25 No.		
Product Name	Existing (MTPA)	Proposed (MTPA)
Setraline Hydrochloride	30	1 (Production Reduced)
Losartan Potassium	20	7
Telmisartan/		8
Eprosartan Mesylate		35
Phenylphrine Hydrochloride/	20	30
Biaryl alcohol (Production Stopped)		-
Phthaloyl Amlodopine	40	-
Amlodopine Besylate		30
Tamsulosin hydrochloride (Production Discontinued)	15	-
Atomoxetine hydrochloride		2
Nateglinide		20
Leuflompmide/ hydrochloride (Production Discontinued)	10	-
Venalafaxine		-
Lamotrigine	20	60
Alfuzosin hydrochloride		2
Zolpidem tartarate		1
Memantine hydrochloride	-	5
Buspirone hydrochloride	-	2
Irbesartan	-	5
Olmesartan	-	4
Valsartan	-	2
Quetiapine	-	36
Ranolazine	-	30
Candesartan	-	1
Dronadarone	-	2
Cinacalcet	-	2
Citrizine	-	10
Divalproate	-	15
Glipizide	-	5
Category II (Bulk Drug Intermediates) - 3 No.		
Diamine	-	2
Taxol	-	3
Phthaloyl amlodopine	-	60
Category III		
R & D /Validation/Pilot Plant Product	-	20
TOTAL	155	400

Area Statement

Item	Detail	
Total Plant Area	79,819 m ²	
Area Requirement		
Purpose	Existing (m ²)	Proposed (m ²)
Process Area	4,000	Expansion of the existing unit :- 2,248
Raw Material Storage	750	
Finished Good Storage	287	
Open Area	11,285	
Green belt 26,341 m ² (33% of total area)	15,000	11,341
Total	31,322	13,589
Project Cost		INR 40 Cr.

Water & Power requirement / Source:

Items	Existing Unit	Proposed Expansion
Water Requirement	50 KLD Source: AKVN	Construction Phase: 25 KLD Operation Phase: Proposed: 175.5 KLD (Existing + Proposed Expansion) Fresh water requirement ó 130.5 KLD Source: AKVN
Power Requirement	800 KVA Source: MPSEB	Construction Phase: 100 KVA Operation Phase: Proposed: 1300 KVA Source: MPSEB
Power Backup (DG Sets)	500 KVA × 2 Nos.	1000 KVA × 1 No.

After deliberations PP was asked to submit response to the follow queries within 15 days:

- Point-wise compliance of the TOR.
- Worst case scenario in context to the waste water expected to generate from the process vis-à-vis treatment system to handle the same.
- Product wise inventory for all the waste-water streams and the management thereby.
- Product wise inventory for all types of solvents proposed to be used in the process and the management thereby along with the estimates of solvent expected to escape in environment & the mitigations planned to prevent the same.
- Domestic waste-water and other lighter effluents may be planned for separation & treatment so as to check their suitability for use in irrigation (land application).
- Hazardous waste inventory mentioning proposed disposal for each of the hazardous wastes as per the provisions of the relevant rules to be furnished.
- Complete details of the scrubbing system ensuring more than 95% solvent recovery from the emissions to be furnished.

2. Case No. - 2317/2014 Mr. Sanjay Mehta, Director, 21, Vishnupuri GNSS and M/s Raj Homes Pvt. Ltd., Zone-II, M.P. Nagar, Bhopal-462011 (MP) Building construction project "Raj Shahi Apartments, Raj Classic Apartments and Raj House" at Khasra no.311/43,43,41,45/1/1/1,45/1/1/2/1, &35/1, Village-Narela Shankari, Tehsil-Huzur, District-Bhopal (M.P.) Total Plot Area -38823.19 Sq.m., Total Build up Area - 87653.22 Sq.m.

This is an area development project comprising Residential campus. Plot area of the project is 38823.19 Sq.m and total built-up area proposed is 87653.22 m². The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary

recommendations. The salient features, EMP for construction as well as operational phase were presented by the PP before the committee. [See details at Annexure-1]

After deliberations the submissions and the presentation made by the PP were found to be satisfactory and acceptable. Thus, based on the submissions the project was recommended for grant of prior EC subject to the following special conditions:

1. Grit chamber with effective grit removal device shall be provided in the water water treatment system.
2. Sludge shall be dried in filter press and shall be disposed of along with the MSW.
3. A play ground of at least 1000 m² shall be provided for children.
4. Thick green cover shall be developed on the boundary facing the Industrial Area.

3. Case No. – 2275/2014 Mr. Mohit Sharma, Director, M/s Shri Prabhakar Colonizer & Developers Pvt. Ltd., 152, Zone-I, M.P. Nagar, Bhopal-462011 (MP) Environment Clearance for approval of proposed housing project “Girnar Valley” at Village-Mohali, Tehsil-Huzur, District-Bhopal (M.P.) Total land area-52436.22 Sq.m. Total Build up area-43464.02Sq.m. (Till dt. Total Built up Under Construction 12007.00 Sq.m)

This is an area development project comprising Residential campus. Plot area of the project is 52436.22 Sq.m and total built-up area proposed is 43464.02 m². The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The salient features, EMP for construction as well as operational phase were presented by the PP before the committee.

After deliberations the submissions and the presentation made by the PP were found to be satisfactory and acceptable. The presentation reveals that the project pertains to expansion of the existing residential project from existing built-up area of 12007 m² to proposed 43464.02 m². Hence in order to examine the present environment scenario, status of construction and the existing / proposed planning, it was decided to visit the site before making recommendation.

4. Case No. - 2319/2014 Mr. Mohit Sharma, Director, Shri Prabhakar Colonizer & Developers Pvt. Ltd., 152, Zone-I, M.P. Nagar, Bhopal-462011 Residential project “Girnar Hills” at Village-Amrawad Khurd, Tehsil-Huzur, District-Bhopal (M.P.) Total Plot Area - 37664.26 Sq.m., Total Built up area-25241.33 Sq.m. at Khasra no.63, 64, 65/311/60, 66 & 67 Total Plot Area -37664.26 Sq.m., (3.76 Ha.) Total Build up area-25241.33 Sq.m.

This is an area development project comprising Residential campus. Plot area of the project is 37664.26 Sq.m and total built-up area proposed is 25241.33 m². The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The salient features, EMP for construction as well as operational phase were presented by the PP before the committee.

After deliberations the submissions and the presentation made by the PP were found to be satisfactory and acceptable. The presentation reveals that the project pertains to expansion of the existing residential project from existing built-up area of about 16000 m² to proposed 25241.33 m².

Hence in order to examine the present environment scenario, status of construction and the existing / proposed planning, it was decided to visit the site before making recommendation.

5. Case No. - 2320/2014 Shri Saurabh Baderia, Director, Global Medical Science & Health Care, Raigwan, Global Square, Jabalpur (MP) Medical College & Hospital project at Village-Raigwan, Tehsil & District-Jabalpur (M.P.) at Khasra No.- 141, 142/9, 142/10, 147/1, 181, 182/1, 182/2, 183/1, 183/2, 183/3, 212 & 244. Total Plot Area - 8.54ha. Total Build up Area- 88362.74 Sq.m.

This is an area development project comprising Medical College & Hospital premises. Plot area of the project is 8.54 Ha and total built-up area proposed is 88362.74 m². The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The salient features, EMP for construction as well as operational phase were presented by the PP before the committee, which reveals following:

Total Plot Area	8.54 Ha
Total Built up Area	88362.74 sq mt
Promoters of the Project	Global Institute Of Medical Sciences And Health Care Baderia pharma ,440, Wright Town, Jabalpur (MP).
Location of Project	Village - Raigawan, Tehsil- Jabalpur , Dist.- Jabalpur (MP)
Khasra No.	141,142/9,142/10,147/1,181,182/1,182/2, 183/1,183/2,183/3,212 and 244
Occupancy	Owned by PP
Geological Location	Latitude : 23°11'06.83"N Longitude 79°53'06.86" E
Altitude	386.791 mt. AMSL
Site Feature	North : Road 45m Wide, South : Agriculture land East : Global Eng. College, West : Agriculture land
Nearest Highway	NH7
Railway Station	Madan Mahal - 8 km
Airport	Jabalpur Air Port - 24 km
Bus Stand	2.5 km

Salient features of the Project:

Facility	Teaching Hospital (750 Bed) Medical College (150 student per year)
Net fresh Water Requirement	421 cum per day during operational phase
Power Requirement	2267 kW
Back up Power facility	2 DG sets of 1500 and 1250 KVA
Solid Waste	1546.30 kg per day

Bio medical waste	284 kg per day (@ 300 gram /day/bed)
Height of buildings	Up to 22.5 Meters
Front MOS	15 Meter
Rear MOS	7.5 Meter
Width of main assess	18 Meter
Distance of fire station	9 Km
Parking area	Open - 16334.69 Sq mt for 653.39 no. of ECS Stilt - 5811.69 Sq mt for 193.72 no. of ECS
Area under Green belt	9072.68 Sq mt
Area under Roads	289.45 Sq mt

Land use break up

S. N	Land Use	Area in Sqm	%
	Total Land Area	85400	
1	Total Scheme Area	85110.55	100
2	Open Area	9072.73	10.65
3	Road	15396.75	18.09
4	Parking Area	16334.69	19.19
5	Service Area	3037.14	3.57
6	Ground Coverage	18841.11	22.14
7	Play Field	Included in Open Area	

Water requirement for the Project

S. N	Facilities	Population	Basic demand (litre/person/day)	Quantity (kL/day)
1.	Hospital	750 beds	450 lit per bed	338
2.	College	1000 persons	45 lit per head	45
3	Hostel	800 persons	135 lit per head	108
4.	Staff Quarter	60 X 5 =300	135 lit per head	40
	Visitors	750 persons	15 lit per head	12
	Total			543

EMP proposed:

Waste Water Treatment:

Capacity of STP: 600 KLD
Aerobic Conventional System

Air Pollution Control Management

Construction Phase

- " Use of ready mix concrete carried in enclosed container
- " Transportation of other Raw material during non peak hours
- " Dust covers on trucks used for transportation of material

- " Equipment to be located away from sensitive receptor location
- " Frequent water sprinkling to prevent fugitive dust emission
- " Use of sharp teeth excavation machinery
- " Construction area shall be surrounded by GI sheets
- " Idling of delivery trucks should not be permitted on roads
- " Use of fly ash for ready mix concrete
- " Construction activity to be carried out in day time only

Operational Phase

- Both DG sets will have appropriate stack height (30 mt) as prescribed by the Central Pollution Control Board
- Proper ventilation will be provided to all parts of the building
- Open burning of any waste will not be allowed.
- Green belt will be provided in consultation with expert adviser.

Bio medical waste management: shall be done as per the BMW Rules.

Energy conservation

- " Energy efficient LED/CFL/T5 lamps for common areas. Use of low loss electronic ballasts
- " Multiple circuit for lighting to switch off unwanted lights
- " Use of low loss capacitors, APFC relays and Group control for elevators
- " Proper selection & sizing of cables consideration derating factors so as to minimize losses
- " High efficiency motors conforming to IS 2615-2004
- " Use of LED lightings to consume less energy
- " Use of day light to reduce 50-60% of lighting cost
- " Use of insulated glass to save 10-13% of cooling and heating cost
- " Use of motion detectors in public areas like corridors, toilets, stairs & parking, which automatically switches off when there is no motion detected.
- " Use of harmonic filters in system will reduce wastage of power.
- " The campus buildings are getting all the advantages of cross ventilation through natural air (from SW to NE), less energy consumption.
- " The huge landscape areas and water percolating pavements keep the whole campus parallelly balanced with respect to the built area and maintain the heat island effect and to recharge ground water.
- " The west facing building part is treated with the 4ö hollow cavity walls to minimize the effect of direct radiation, hence it result in maintaining the inside temperature.
- " The N-S orientation of the road (for entrance & exit) will ensure a clear vision through out; a glare less vision.
- " The north facing front elevation of the building gets the full advantage of diffused light/North light inside the building.
- " The light color scheme of the building helps to reflect back the maximum sun radiation instead of absorbing it, so that minimum radiation effect can be felt inside the building, resulting in less A.C. load/cooling load on the building.
- " OTSø are provided wherever needed to ensure maximum day light & ventilation in corridors & desired rooms, to reduce light load.
- " High efficiency insulated glass windows to reduce energy use.

Fire fighting measures

- The fire fighting will be designed as per the recommendations of the National Building Code of India-Part IV, 2005. Considering that the purpose of the building, as well as the height of the structure and mixed occupancy, it will be necessary to provide a proper and adequate fire fighting system based on the requirements of the National Building Code 2005.
- The proposed fire fighting shall be consisting of static U.G storage tank with a provision of fire brigade inlet and suction connections.

- Separate main pipe lines will emanate from the pump room for internal and external hydrants and sprinkler network and connect to the vertical risers.
- A fire hose cabinet with complete fire fighting accessories shall be provided with following specifications:
- Wet riser system, shall be connected with the following type of fire pumps, which will be operated automatically and also on emergency supply.
- Also it has been proposed to provide portable type fire extinguishers.

S.No.	Description	Area/ Building	Remarks
1	Fire Hydrant System	Total Area	
2	Wet Riser	Total Area	Inside the building in the dedicated shaft
3	Yard Hydrants	Total Area	External periphery of the Building & Nearby all hazardous area
4	Automatic Sprinkler System	Total Area	hospital
5	Fire detection and alarm system	Total Area	
6	Public address system	Total Area	
7	Hand Appliances/Fire Extinguishers	Total Area	

After deliberations the submissions and the presentation made by the PP were found to be satisfactory and acceptable. Thus, based on the submissions the project was recommended for grant of prior EC subject to the following special conditions:

1. Water requirement for the project shall not exceed 421 KLD.
2. Grit chamber with effective grit removal device shall be provided in the waste- water treatment system.
3. Bio-medical waste (BMW) shall be segregated with provision for storing the BMW for 48 hours.
4. Disposal of BMW shall be as per the provisions of relevant rules after due Authorization from the MPPCB.
5. At least two-row thick green belt shall be developed all along the boundaries.

6. Case No. - 2093/2014 Mr. Rakesh Pushp, Executive Engineer-6, Bhopal Development Authority, Pragati Bhawan, Press Complex, M.P. Nagar, Zone-1, Bhopal-4620118(b) Prior Environment Clearance for approval of proposed residential project "Misrod Upnagar" Phase -I Scheme, at Village-Bawadia Kalan, Tehsil-Huzur, District-Bhopal (MP) Plot Area- 73.55 ha.- For TOR

This is an area development project comprising Residential premises. Plot area of the project is 73.55 Ha and total built-up area proposed is 88362.74 m². The project is covered under the provisions of EIA Notification as item no. 8(b). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP to mitigate environmental impacts expected from the project during construction and operational phases. The salient features, EMP for construction as well as operational phase and proposed TOR were presented by the PP before the committee.

After deliberations Committee has approved the TOR with inclusion of the following points in addition to standard TOR to be addressed in the EIA / EMP:

- Executive Engineer, BDA has reported that the site is more than 2 Km away from the HFL of River Kaliyasot; an affidavit in this regard has to be furnished with EIA.
- Water requirement for the complete project with ensured source for the same to be furnished along with the supporting documents.
- Water balance in terms of consumption, waste-water generation and re-cyclable / disposable treated waste-water to detailed.
- Details of STP (s) proposed in the project.
- MSW Management ó including the details from generation, collection, storage and ultimate disposal of MSW.
- Exact distances of all the water bodies, fragile areas within 5 Km from the project boundary to be detailed out.
- Land-use / land-cover in 5 Km area around the project boundaries.
- Contour map depicting Water-shed and drainage pattern of the site.

7. Case No. - 2335/2015 Shri Anil Khanna, General Manager, M/s Fortune Builders, E-7/841, Arera Colony, Bhopal-462016 (MP) Environment Clearance for approval of proposed Group Housing Project "Fortune Divine City" at Village-Misrod, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 23633.66 Sq.m., Total Built up Area- 29542 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is **23633.66 Sq.m.** and total built-up area proposed is **29542 Sq.m.** The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

8. Case No. - 2336/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) Environment Clearance for approval of proposed Group Housing Project "Soumya Atlantis" at Village-Bagli, Barrai, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 75743.94 Sq.m., Total Built up Area- 35015.95 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is **75743.94 Sq.m.** and total built-up area proposed is **35015.95 Sq.m.** The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

9. Case No. - 2337/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP)

Environment Clearance for approval of proposed Group Housing Project "Fortune Signature" at Village-Badwai, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 36070 Sq.m., Total Build up Area- 45583.75 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is 36070 Sq.m. and total built-up area proposed is 45583.75 Sq.m. The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

10. Case No. - 2338/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) Environment Clearance for approval of proposed Group Housing Project "Tulip Green" at Village-Mahabadia, Kolar Road, Tehsil & District-Bhopal (M.P.) Total Project Area - 87100 Sq.m., Total Built up Area- 14947 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is 87100 Sq.m. and total built-up area proposed is 14947 Sq.m. The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

11. Case No. - 2339/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) Environment Clearance for approval of proposed Group Housing Project "Fortune Soumya Heritage" at Village-Bhairapur, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 43981.27 Sq.m., Total Built up Area- 33654.2 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is 43981.27 Sq.m. and total built-up area proposed is 33654.2 Sq.m. The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

12. Case No. - 2340/2015 Shri Ajay Mohagaonkar, General Manager, M/s Fortune Builders, 157, Zone-1, M.P. Nagar, Bhopal-462011 (MP) Environment Clearance for approval of proposed Group Housing Project "Fortune Kasturi" at Village-Jatkhedhi, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 18285.73 Sq.m., Total Built up Area- 33805.69 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is 18285.73 Sq.m. and total built-up area proposed is 33805.69 Sq.m. The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

13. Case No. - 2350/2015 Shri Dinesh Moolchandani, Director, M/s Paras Housing (India) Pvt. Ltd. , 243-B, Zone-1, M.P. Nagar, Bhopal-462011 (MP) Group Housing Project "Urbane Park" at Village-Bawadiakalan, Tehsil-Huzur, District-Bhopal (M.P.) at Khasra No. – 98, 99, 100, 101, 495/98, 102/1, 107, Total Project Area – 13587.30 Sq.m., Total Built up Area- 21332.70 Sq.m.

This is an area development project comprising a Residential premise. Plot area of the project is 13587.30 Sq.m. and total built-up area proposed is 21332.70 Sq.m. The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It was submitted by the PP that construction at site has already been taken up. Being a case of violation it was deferred by the committee for want of credible action in the matter. The project shall be considered after receipt of evidence pertaining to initiation of credible action against the project proponent.

14. Case No. – 2204/2014 Mr. A.K. Dubey, Director, M/s SEAC Ltd., 46, Ramlaxmi Parisar, Malviya Nagar, Bhopal-462003 (MP) Environment Clearance for approval of proposed housing project "SEAC SHIV-SHRADDHA" at Khasra No.-241/1/1 Total Land Area-30000.00 M2 Total Built up Area-31074.65 Vill. - Chandukhedi, Badnagar Road, District-Ujjain (M.P.)

This is an area development project comprising Residential campus. Plot area of the project is 30000 Sq.m and total built-up area proposed is 31074.65 m². The project is covered under the provisions of EIA Notification as item no. 8(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The salient features, EMP for construction as well as operational phase were presented by the PP before the committee.

After deliberations PP was asked to submit response to the following queries within 15 days:

- Ground water is proposed to be used in the project; Permission from CGWA or a copy of the application made to CGWA to be furnished in this regard.
- Mode of ultimate disposal of the excess treated waste-water with supporting documents.
- MSW management along with the consent of Ujjain Municipal Corporation for disposal of MSW at municipal trenching / land-fill site to be furnished.
- Details of STP with concept of treatment.
- Site lay-out depicting various utilities including the space for storing of MSW and Green area planning at site.
- Corpus fund proposed for environmental issues to be re-checked and submitted.

15. Case No. - 2310/2014 Shri A.K. Singh, AVP, M/s KJS Cement Ltd., NH-7, Rajnagar, PO-Maihar, District-Satna (MP)-485771 Limestone mine Lease Area –7.316 ha., at Survey No. – 152P, 154P, 163P, 164P, 165P, 166P, 167 Capacity-5,00,000TPA, Village-Piprahata, Tehsil-Maihar, District-Satna (MP)- **TOR**

This is a Mining project comprising mining of Limestone. Lease area proposed is 7.316 Ha and the proposed production capacity is 5.0 lac TPA. The project is covered under the provisions of EIA Notification as item no. 1(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project site. The salient features of the project, proposed TOR and EMP were presented by the PP before the committee.

After deliberations committee has approved the TOR with inclusion of following points in addition to standard TOR to be addressed in EIA / EMP:

- Note on extent of mining carried out so far since opening of the mine to be furnished along with the supporting data and recent photographs.
- Detailed plan for protection of the nearby Chakdehi Nallah with illustrations to be incorporated in the EMP.
- Water balance clearly mentioning the use-wise water consumption. Source of water with necessary commitment, NOC / Permission from the concerned authority to be furnished.
- Soil depth study and estimation of top soil required to be excavated has to be carried out as per actual site conditions.
- At least one monitoring station has to be installed towards the Forest boundary as well as towards Village boundary.
- Evacuation plan including the road network and manpower/infrastructure requirement to be presented.
- Line source modelling shall also be carried out to depict the pollution load from transportation of mineral.
- Commitment for maintenance of 04 Km road from the site up to the State Highway from the project proponent, the plan and budgetary provisions to be furnished with EIA / EMP.
- Hydro-geological study has to be carried out and presented with recommendations and mitigations to maintain / improve the ground-water regime in the region.
- Detailed plan for mine-water disposal.

16. Case No. – 2225/2014 Smt. Saroj Rani Agrawal, Shri Vinod Maheshwari, HPA, Chandra Village, Heera Ganj, Kashmir Hardware Gali, Katni (MP)-483501 Sejha Limestone Dolomite Mine Lease Area –7.03 ha. at Khasra No.- 55,56 , Capacity – 50,000 TPA, Village - Sejha, Tehsil-Badwara, District-Katni (MP).

This is a Mining project comprising mining of Limestone and Dolomite. Lease area proposed is 7.03 Ha and the proposed production capacity is 50000 TPA. The project is covered under the provisions of EIA Notification as item no. 1(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project site. The salient features of the project, proposed TOR and EMP were presented by the PP before the committee.

After deliberations committee has approved the TOR with inclusion of following points in addition to standard TOR to be addressed in EIA / EMP:

- It was reported that a HT line is passing across the boundary and the same is proposed to be shifted by the concerned authority; details of the plan with timelines & letter of intent from the concerned authority to be furnished.
- The base line data reported to be under procurement / collection may be used in the EIA / EMP.
- Water balance clearly mentioning the use-wise water consumption. Source of water with necessary commitment, NOC / Permission from the concerned authority to be furnished.
- Soil depth study and estimation of top soil required to be excavated has to be carried out as per actual site conditions.
- At least one monitoring station has to be installed towards the Forest boundary as well as towards Village boundary.
- Evacuation plan including the road network and manpower/infrastructure requirement to be presented.
- Line ósource modelling shall also be carried out to depict the pollution load from transportation of mineral.

17. Case No. 1828/14 Shri Rakesh Jayatibhai Patel, M/s Meghnagar Organics Pvt. Ltd., Gandhi Pole, Post-Ranoli, Vadodara, Gujarat-391350- TOR Proposed Manufacture of Pigments production at Tehsil-Meghnagar & District-Jhabua (MP)- 5(f)- TOR

This is an industrial project comprising production of Pigments. The proposed production capacity is 155 MT/Month. The project is covered under the provisions of EIA Notification as item no. 5(f). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project site. The salient features of the project, proposed TOR and EMP were presented by the PP before the committee.

After deliberations committee has approved the TOR with inclusion of following points in addition to standard TOR to be addressed in EIA / EMP:

- Both RO plant as well as MEE has been planned; what portion of the effluent shall be diverted to Ro and MEE respectively has to be clarified.
- Proposed ETP to be detailed out ensuring considerable reduction in the COD.
- Water balance to be detailed out for each KL of water being consumed / discharged along with a clear plan for recycling / disposal of treated waste-water.
- Details of the scrubbing agents proposed to be used in different scrubbers.
- Details of the solvent recovery system with mass balance for each of the solvents proposed to be used in the process.
- Justification for opting the proposed technology as one of the best available technology.
- Details of ground-water development (rain-water harvesting) and protection plan to be furnished in EIA / EMP.

Discussion of Query Responses and other issues

1. Case No. – 1979/2014 Shri Sanjay Singh, Town & Tehsil-Baraseoni, District-Balaghat (MP) Sand Quarry in an area of 8.100 ha. at Village-Jaramohangaon, Tehsil-Katangi, District-Balaghat (MP)

The case was presented in the 159th meeting dated 01/12/2014. This is a sand mining project comprising a lease area of 8.100 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by

SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

- The quarry is located at - Village-Jaramohangaon, Tehsil-Katanggi, District-Balaghat (MP).
- It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry.
- No embankment / bridge is reported within 1 Km from any of the periphery of the proposed quarry.
- PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP.
- The mining is proposed to be carried out manually.

After deliberations PP was asked to submit a certificate from the concerned Mining Officer regarding sand quarries operating / proposed within 1 Km from all the peripheries of the proposed sand quarry. PP has submitted a copy of the said information. It was reported by the concerned mining officer vide letter no. 1467 dated 10/11/2014 that no mine is proposed / operating within 1 Km from the periphery of the said mine. Based on the submission made by the PP the case is recommended by the committee for grant of prior EC subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be taken up on banks to prevent damages of the banks.
4. Annual abstraction of sand shall be as per the approved Mining Scheme and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st October to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
19. EC will be valid for mine lease period subject to a ceiling of 5 years.

2. Case No. - 2045/2014 Shri Ramnarayan Mukati S/o Shri Bhawar Singh Mukati, Village-Kheda, Tehsil-Dhar, District-Dhar (MP)-454001 Metal Stone Quarry Lease Area – 3.00 ha. at Khasra No.-753, Village-Kheda, Tehsil-Dhar, District-Dhar (MP), Capacity –20580 Cubic mt./Year. Query- 165th meeting dated 08/01/2015.

The case was considered in the 165th meeting dated 08/01/2015. This is a case of mining of stone bolder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-753, Village-Kheda, Tehsil-Dhar, District-Dhar (MP) in 3.0 ha. The project requires prior EC before commencement of any activity at site. Proposed production capacity is 20580 m³ / Year and maximum depth of 9 meters.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. It was reported by the concerned Mining Officer of mining department, vide letter no. 7061 dated 22/09/2014 that 07 more mines are operating / proposed within 500 meter radius around the said mine and total lease area is 22.5 Ha. PP has reported that the pit formed after mining shall be developed into a water body.

Scrutiny of the case revealed that presence of certain scheduled animals in the area has been reported in the Mining Plan which seems to be incorrect. However, DFO in his letter has not commented on this issue. Hence, PP was asked to obtain comments of concerned DFO on this issue. PP has submitted the requisite information with supporting documents, which was found to be satisfactory and acceptable.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.

8. Production of stone boulder shall be as per the mining plan not exceeding 20580 m³/Year and maximum average depth of pits shall not exceed 06 meters.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

3. Case No. - 2060/2014 Shri Mehruddin Khan, M/s Chirag Construction Company, 933, Main Road, Balsamund, Tehsil-Kasrawad, District-Khargone (MP)-451228 Lodhipura Basalt Stone Quarry Lease Area – 2.00 ha., at Khasra No.-97 , Village-Lodhipura, Tehsil-Dharampuri, District-Dhar (MP), Capacity – Stone- 18839 m³ / year and Murrum- 2512 m³/Year. Query- 166th meeting dated 09/01/2015.

The case was considered in the 166th meeting dated 09/01/2015. This is a case of mining of stone and murrum. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.- , Village-Lodhipura, Tehsil-Dharampuri, District-Dhar (MP) in 2.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. It was reported by the concerned Mining Officer of mining department vide letter no. 1935 dated 14/10/2014, that no mine is operating / proposed within 500 meter radius around the said mine. 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. The scrutiny of mining plan revealed that the map do not reflects appropriate benching hence PP was asked to submit the clarifications for the same. PP has submitted the detailed drawings clarifying the benching and progressive mining.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production shall be as per the mining plan not exceeding- *Stone- 18839 m³ / year and Murrum- 2512 m³/Year* and maximum average depth of pits shall not exceed 06 meters.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

4. Case No. – 1983/2014 Shri Pradeep Mittal, Director, M/s Balaji Marble and Tiles Pvt. Ltd., 11-12 Dunne Market, Jabalpur Road, Bargawan, Katni (MP)- 483501 Katouli River Sand Quarry in an area of 7.00 ha. at Village-Katouli, Tehsil-Singhrouli, District-Singhrouli (MP) Query- 159th SEAC Meeting dated -01/12/2014.

The case was considered in the 159th Meeting dated 01/12/2014. Whereby the Google map presented by the PP during the presentation reveals that the Mining Lease area allocated to the PP does not have adequate sand whereas, the considerably good sand deposits are visible in the land in proximity of the allotted lease area. It was decided get the factual report from the concerned Regional Officer MPPCB in the matter and verify the actual location of the lease area. Report from RO Singrauli was received. RO reported that no sand is observed at the proposed mine site hence the case may not be considered for EC. Accordingly, it was decided by the committee to return the case to SEIAA with recommendation for rejection of the application.

5. Case No.-1837/2014 Shri Sunil Arora, R/o Vaishali Nagar, Tehsil & District Damoh (M.P.) Basalt Stone Quarry Lease Area - 1.200 ha. For Production Capacity 4,500 cum/year at Khasra No. - 656 at Village-Padariya, Thesil.- Sagar, Distt -Sagar (M.P)

The case was considered in the 156th Meeting dated 12/11/2014. Scrutiny of the project revealed that the presentation and the submission made by the PP are incomplete. Thus, PP was asked to present the case after incorporating all components of the project including the EMP. It was decided to call the PP after request for the same is received from the PP. PP has submitted the response to the said issues with clarification and has requested for a chance to present the case before the committee. Hence it was decided to list the project for consideration in the next meeting.

6. Case No. – 1971/2014 Shri Neeraj Verma, 601/26B, Kamla Nehru Nagar, Jabalpur (MP)-482002 Stone Boulder Quarry Lease Area – 4.00 ha. at Village-Ainthakhera, Tehsil-Jabalpur, District-Jabalpur (MP)

The case was considered in the 162nd Meeting dated 23/12/2014. Scrutiny of the project revealed that the presentation and the submission made by the PP are incomplete. PP has

submitted the response to the said issues with clarification and has requested for a chance to present the case before the committee. Hence it was decided to list the project for consideration in the next meeting.

7. Case No.1552/2013 - Shree Sai Mining Industry, V.C.Bungalow, South Civil Line Teh.-Pachpedi, Dist.-Jabalpur (M.P.) 482001 Environment Clearance for approval of 03.65 Hectares Stone/Boulder Quarry at Vill.-Chatua, Teh.-Anuppur, Dist.- Anuppur (M.P.)

Case was considered in the 148th dated 28/08/2014. Whereby it was observed by the committee that PP has not submitted the requisite approved mining plan, letter from Mining Officer certifying total mining leases & cumulative mining area of all the mines operating / proposed in 500 meters around the periphery of the mine in question. Hence committee has asked the PP to submit the same and decided to consider the case after submission of the above documents. PP has submitted the response to the said issues with clarification and has requested for a chance to present the case before the committee. Hence it was decided to list the project for consideration in the next meeting.

8. Case No.-1867/2014 Shri Abhinay Singh Thakur S/o Shri Ramjiyawan Singh, Rampur, District-Jabalpur (MP) Aintakheri Stone Boulder Quarry Lease Area –13.74 ha. Capacity:102600 m³ or 297540 mt /Year, at Khasra No. –217 at Village-Ainthakhera, The & Dist-Jabalpur, (MP)

The case was considered in 157th meeting of SEAC dated 27th Nov. 2014, whereby PP was asked to submit response to the following queries:

- Mining Officer certifying the leases within 500 meters radius around the site.
- Lay-out of the lease area clearly showing the location of proposed pits, OB dumps, top-soil, DG-sets, Crusher, parking, green areas etc within the lease area. Detailed OB and top-soil management.
- Route map starting from the site up to the major highway road for transporting the materials from and to the site.
- Details of the funds reserved for maintenance of the roads planned to be used for transporting the materials. Use wise break-up of water consumption expected in the unit along with the source of water.
- Activity wise budget reserved for Socio-economic activities in the nearby villages.EMP highlighting the plans for: Prevention of silt-flow and run-offs from the lease area in nearby environment & Protection of adjoining agriculture land from the possible damages from various activities proposed in the unit.

PP has submitted satisfactory response to the above queries. Mining Officer has reported vide letter dated 04/09/14 that 2 more mines are proposed within 500 meters around the said mine with cumulative lease area of 19.2 Ha. Other submissions are satisfactory and acceptable. Thus, based on the submission and presentation the case was recommended for grant of prior EC subject to following special conditions:

- The proposed retention wall at the foot of the hillock shall be constructed before start of the mining activity.
- The mine waste shall not be dumped towards the boundaries facing the agriculture fields (i.e. western & eastern boundaries). Three settling tanks shall be constructed as proposed to capture the water coming through garland drains.

- Production capacity shall be as per the approved Mining Plan but not exceeding 102600 m³/ Year.
- Other conditions laid for the similar cases shall be applicable.

9. Case No. – 1946/2014 Smt. Manjula Jain W/o Shri Sanjay Jain, 168, Near Head Post Office, Killa Road, District-Bhind (MP)-477001 - Stone Quarry Lease Area – 2.00 ha., at 3619/3 k, Village- Billaua, Tehsil-Dabra, District-Gwalior (MP) Production Capacity- 15894 Cum/Year.

The case was considered in the 162nd Meeting of SEAC dt. 23rd Dec. 2014 whereby it was observed by the committee that in Bilua Region huge cluster of stone mines is operational, hence it was decided to verify the distance of this particular group of mines from major Bilaua cluster through R.O. MPPCB / Mining Department. In this context the Mining Officer, Gwalior vide letter no. QL---/2011 dated 29/12/2014 has reported that total six mines are operating / proposed within 500 meter radius and cumulative lease area of all the six mines including this mine is 9.625Ha, the distance of this cluster of six mines from the boundary of major cluster of mines in Bilaua Region is more than 500 meters.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 15894 m³ / year and maximum average depth of pits shall not exceed 06 meters.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

10. Case No. – 1883/2014 Shri Nand Kishore Patel S/o Shri Babu Lal Patel, Village-Hathkhoh, Tehsil-Deori, District-Sagar (MP)-470001 *Stone Boulder Quarry at Village-Hathkhoh, Tehsil-Deori, District-Sagar (MP), Lease Area – 3.960 ha., Capacity - 4100 Cubic mt. /Year.*

The case was considered in the 160th SEAC Meeting dt. 21th Jan. 2015. Whereby the Pp was asked to submit information with supporting documents for the following queries:

- Details of the crusher to be installed with its location.
- Use wise total water requirement in the project with justification along with the source.
- Permissions / NOC for drawal of water from competent authority.

Response to the above queries was submitted by the PP and the same was placed before the committee.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 4100 m³ /year.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

11. Case No. - 2045/2014 Shri Ramnarayan Mukati S/o Shri Bhawar Singh Mukati, Village-Kheda, Tehsil-Dhar, District-Dhar (MP)-454001 *Metal Stone Quarry Lease Area – 3.00 ha. at Khasra No.-91, Village-Kheda, Tehsil-Dhar, District-Dhar(MP), Capacity –20580 Cubic mt./Year. (Revised Form – I Rec. - Capacity –...Cubic mt./Year.)*

The case was considered in the 151st SEAC Meeting dated 27/09/2014, whereby the scrutiny of the case reveals that presence of certain scheduled animals in the area has been reported in the Mining Plan which seems to be incorrect. However, DFO in his letter has not commented on this issue. Hence, PP was asked to obtain comments of concerned DFO on this issue. PP has submitted a clarification in this regard issued by the Forest Department stating that no wild life exists or visits the location.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 20580 m³ / year.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

12. Case No. - 2044/2014 Shri Mohammad Sarwar S/o Shri Ramjan Mohammed, Post & Tehsil-Gohparu, District-Shahdol (MP)-484771 Stone Quarry Lease Area – 1.554 ha., at Khasra No.-185/01 , Village-Diyapipar, Tehsil-Gohparu, District-Shahdol (MP) Capacity –10,000 Cubic mt./Year.

The case was considered in the 165th SEAC Meeting dated -08/01/2015, whereby the scrutiny of the case reveals that presence of certain scheduled animals in the area has been reported in the Mining Plan which seems to be incorrect. However, DFO in his letter has not commented on this issue. Hence, PP was asked to obtain comments of concerned DFO on this issue. PP has submitted a clarification in this regard issued by the Forest Department stating that no wild life exists or visits the location.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 10000 m³ /year.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

13. Case No. – 1882/2014 Shri Kailash Kumawat, 120, Karmadi Road, Ratlam (MP)
Stone Quarry at Village-Sarwani Khurd, Tehsil-Ratlam, District-Ratlam (MP) Lease Area - 2.00 ha, Capacity - 5700 Cubic mt.. /Year.

The project was considered in the 160th SEAC meeting dated 21st December 2014. This is a stone mining project comprising a lease area of 2.0 ha at Village-Sarwani Khurd, Tehsil-Ratlam, District-Ratlam (MP). The project requires prior EC from SEIAA before commencement of production. The application with other documents was forwarded by SEIAA to SEAC for appraisal. It was reported by the concerned incharge officer of mining department vide letter no. 388 dated 28/08/2014, that 06 more mines with cumulative lease area of 19.9 ha are operating / proposed within 500 meter radius around the said mine. After deliberations from PP and his consultant the committee asked the PP for submission of following:

- Revised EMP addressing the following issues.
- Details of the crusher to be installed with its location.
- Plan for protection of the nearby nallah in terms of garland drain / check-dams to be constructed in the mining lease area.

- Use wise total water requirement in the project with justification along with the source.
- Permissions / NOC for drawal of water from competent authority.

Response to the above queries has been submitted by the PP and the same was placed before the committee and found satisfactory by the committee.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 5700 m³ / year.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

14. Case No. – 2195/2014 Shri Gowardhan Kalra, Punjabi Colony, Tehsil-Shyamgarh, District-Mandsaur (MP) Basalt Stone Quarry Lease Area – 1.00 ha., at Khasra No. – 52/4, Capacity - 8550 Cum/Year, Village-Aeri, Tehsil-Shyamgarh, District-Mandsaur (MP)

The case was considered in the 171st SEAC meeting dated 29/01/2015. This is a case of mining of stone bolder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Aeri, Tehsil-Shyamgarh, District-Mandsaur (MP). in 1.0 ha. The project requires prior EC before commencement of any activity at site. PP has submitted a copy of approved Mining Plan and other requisite information in the prescribed format duly verified by the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into

a water body. Crusher is proposed in the lease area. After deliberation PP was asked to submit clarification on following:

- After mining the total of area-wise break-up including the mined out area proposed to be converted in to a water-reservoir and the area under plantation is reported to be 1.27 Ha; whereas total lease area is only 1.00 Ha.

Clarification for the query was submitted by the PP. The same was placed before the committee and found satisfactory.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- *8550 m³ / year*.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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. Case No. - 2076/2014 Shri Jagdish Basantani S/o Shri Gulab Rai Basantani, 72, Shanti Nagar, Bairasiya Road, Bhopal (MP)-462011 Basalt Stone Quarry Lease Area – 3.680 ha., at Khasra No.-1113 , Village-Baijnath, Tehsil-Ashta, District-Sehore (MP) ,Capacity – 70560 Cubic mt./Year.

The case was considered in the 166th SEAC Meeting. This is a case of mining of stone bolder.The application was forwarded by SEIAA to SEAC for appraisal. The

proposed site is located at Khasra No.-1113 , Village-Bajnath, TehsilAshta, District-Sehore (MP) in 3.680 ha. The project requires prior EC before commencement of any activity at site. Proposed production capacity is 70560 m³ / Year. PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. It was reported by the concerned Mining Officer of mining department, vide letter no. 5476 dated 12/09/2014 that 02 more mines are operating / proposed within 500 meter radius around the said mine, the total lease area being 9.680 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. Scrutiny of the mining plan reveals the presence of certain scheduled animals in the area which needs confirmation from the forest department. The DFO in his letter has not commented on this issue. Hence, PP was asked to obtain comments of concerned DFO on this issue and submit.

PP has submitted a clarification in this regard issued by the Forest Department stating that no wild life exists or visits the location.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 70560 m³ / year and the average depth of all the pits shall not exceed 12 meters.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

16. Case No.-1837/2014 Shri Sunil Arora, R/o Vaishali Nagar, Tehsil & District Damoh (M.P.) Basalt Stone Quarry Lease Area - 1.200 ha. For Production Capacity 4,500 cum/year at Khasra No. - 656 at Vill.-Padariya, Th.- Sagar, Distt -Sagar (M.P.)

The case was considered in the 156th SEAC Meeting dt. 12/11/14 whereby the scrutiny of the project revealed that the presentation and the submission made by the PP are incomplete. Thus, PP was asked to present the case after incorporating all components of the project including the EMP. It was decided to call the PP after request for the same is received from the PP.

PP has submitted the response to the said issues with clarification and has requested for a chance to present the case before the committee. Hence it was decided to list the project for consideration in the next meeting.

17. Case No. – 1884/2014 Smt. Veena Sethi W/o Shri Virendra Sethi, 84, Luv Kush Nagar, Sector No. 2, Khandwa (MP)-450001 Mohanya Khurd Stone Quarry at Village-Mohanya Khurd, Tehsil-Punasa, District-Khandwa (MP), Lease Area – 1.25 ha., Capacity - 8000 Cubic mt.. /Year.

The case was considered in the 160th SEAC Meeting This is a stone mining project comprising a lease area of 1.25 ha at Village-Mohanya Khurd, Tehsil-Punasa, District-Khandwa (MP). The project requires prior EC from SEIAA before commencement of production. The application with other documents was forwarded by SEIAA to SEAC for appraisal. It was reported by the concerned Asst. Mining Officer of mining department vide letter no. 1284 dated 09/10/2014, that no mine is operating / proposed within 500 meter radius around the said mine. After deliberations from PP and his consultant the committee asked the PP for submission of following:

- Use wise total water requirement in the project with justification along with the source.
- Permissions / NOC for drawal of water from competent authority.

The requisite information was submitted by the PP along with the supporting documents. The same was placed before the committee and found satisfactory.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.

8. Production of stone shall be as per the mining plan not exceeding- 8000 m³ / year and the average depth of all the pits shall not exceed 06 meters.
9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

18. Case No. – 1971/2014 Shri Neeraj Verma, 601/26B, Kamla Nehru Nagar, Jabalpur (MP)-482002 Stone Boulder Quarry Lease Area – 4.00 ha. at Village-Ainthakhera, Tehsil-Jabalpur, District-Jabalpur (MP) Production capacity 14084 m³ / Year

The case was considered in the 162nd SEAC Meeting dated 23/12/2014. This is a case of mining of stone boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Ainthakhera, Tehsil-Jabalpur, District-Jabalpur (MP) in 4.00 ha. The project requires prior EC before commencement of any activity at site. PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. It was reported by the concerned Mining Officer of mining department vide letter no. ---- dated -----, that ---- mine is operating / proposed within 500 meter radius around the said mine. PP has reported that the pit formed after mining shall be developed into a water body. After deliberations the PP was asked to submit revised EMP addressing the impacts blasting and the mitigation thereby.

The requisite information was submitted by the Pp and found satisfactory.

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 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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone shall be as per the mining plan not exceeding- 14084 m³ / year and the average depth of all the pits shall not exceed 06 meters.

9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. 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.

Meeting ended with thanks to the Chair and the Members.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[Dr. Mohini Saxena, Member]

[K.P. Nyati Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Dr. U.R. Singh, Member]

[Rameshwar Maheshwari, Member]

[Manohar K. Joshi, Member]

[A.A. Mishra, Secretary]

**[Dr. Srinivasan Krishnan Iyer,
Member]**

Project details

Annexure-1

Case No. - 2317/2014 Mr. Sanjay Mehta, Director, 21, Vishnupuri GNSS and M/s Raj Homes Pvt. Ltd., Zone-II, M.P. Nagar, Bhopal-462011 (MP) *Building construction project "Raj Shahi Apartments, Raj Classic Apartments and Raj House" at Khasra no.311/43,43,41,45/1/1/1,45/1/1/2/1, &35/1, Village-Narela Shankari, Tehsil-Huzur, District-Bhopal (M.P.) Total Plot Area -38823.19 Sq.m., Total Build up Area - 87653.22 Sq.m.*

Salient features of the project:

Project Requirement	Details
Location	Survey No. 45/1/1/1, 311/43,43-41, 45/1/1/2/1 AND 35/1 Village Narela Shankari, J. K. road, Tehsil Huzur, Bhopal . (MP)
Owner of the land	Vishnupuri Housing Society Ltd. and Raj Homes Pvt. Ltd
Plot Area	Total Land Area =3.88 ha. (38823.19 sqm)
Proposed Built-up Area	Total Built Up Area = 87653.22 sq mt
Landscaped Green Area	2940.00 sqm
Dwelling Units	Raj Classic Apartment : 250 HIG, 101 MIG, Informal sector : 34 LIG and 50 EWS Multi unit block : 18 MIG and Raj business center.
Total Water requirement	341 kld
Solid waste generated	1013 kg
No. of Parking proposed	770 No. (parking required 562)
Total Power requirement	1500 KW

Status of land:

S. no.	Land owner	Village	Khasra no.	Area in Ha.
1	Vishnupuri Housing Society Ltd.	Narela Shankari	45/1/1/1	1.82
2			311/43,43-41	1.62
3	Raj Homes Pvt. Ltd.		45/1/1/2/1	0.3
4			35/1	0.14
		Total		3.88

Detailed area statement

A.	Total Plot Area	38823.19 sqm	
	Less area under 30 m road widening	9422.62 sqm	
B.	Net Potable Area	29400.57	
	Permissible Ground Coverage	30% of each plot	
	Open Area Permissible (Min.) 10%	2940.00 sqm	
	Open Area Proposed		
	Services Area	294.00 sqm	
	Permissible FAR	1:2.5	
C.	Road & Circulation	110.36 sqm	
			Built up areas
D.	Plot for Raj Classic Apartments	13112.99 sqm	39338.94
E.	Plot for Multi unit development	1002.25 sqm	1804.00
F.	Plot for Raj Business centre	2013.44 sqm	6443.00
G.	Area of LIG/EWS Flats		1789.00
H.	Built up area common spaces		11291.62
I.	Built up area parking space		26986.66
		Total built up area	87653.22

Water demand:

WATER DEMAND CALCULATIONS FOR RESIDENTIAL	
1	Occupancy Load = 5 Person / flat
2	Daily Water Demand = 135 lit/cap/day
WATER DEMAND CALCULATIONS FOR VISITORS	
1	Occupancy Load = 1 Person / 200 Sq.ft
2	Daily Water Demand = 15 lit/cap/day
WATER DEMAND CALCULATIONS FOR CLUB HOUSE	
1	Occupancy Load = 1 Person / 200Sq.ft
2	Daily Water Demand = 45lit/cap/day
WATER DEMAND CALCULATIONS FOR LANDSCAPE	
	@ 5 Litres per Sq.m.

Total Water Requirement: 341 KLD
 Flushing Water Requirement: 112 KLD
 Horticulture requirement: 15 KLD
 Net Water Requirement: 214 KLD
 Total Waste Water generation: 294 KLD
 Excess treated water available: @ 138 KLD

STP Capacity: 300 KLPD

Solid Waste Generation

SL. No.	DESCRIPTION	FLATS/ AREA	UNIT POPU- LATION	TOTAL POPU- LATION	Solid waste	
					Municipal	Total
					Kgpd	Kgpd
1	RAJ CLASSIC APARTMENT	351	5	1755	0.40	702.00

2	MULTI UNIT PLOT	18	5	90	0.40	36.00
3	LIG	34	4	136	0.40	54.40
4	EWS	50	3	150	0.40	60.00
5	BUSINESS CENTRE POPULATION 10 SQM /PERSON ON BUILT UP AREA	6443	10	644	0.25	161.00
TOTAL						1013.40

Cost for EMP

S.No.	PARAMETERS	COST (Rs. in lakh)
I.	WATER POLLUTION CONTROL	
	Sewage Treatment Plant	100
	Rain Water Harvesting System	10
	TOTAL	110
II.	SOLID WASTE MANAGEMENT	
	Solid Waste Collection Bins Disposal system	07
III.	GREEN BELT	02
	GRAND TOTAL	119

RECURRING COST OF EMP

S.No.	Particulars	Approx. Annual Recurring Cost (Rs. in Lakhs)
I.	STP	12.00
II.	SOLID WASTE MANAGEMENT	6.00
III.	ENVIRONMENTAL MONITORING	2.00
IV.	GREEN BELT	1.00
	TOTAL	21.00

Fire Safety Measures

- Fire hydrants shall be provided all around the buildings.
- Walls enclosing lift shafts shall be fire resistant for 4 hour.
- Landing doors and lift car doors will be fire/ smoke resistant.
- Electrical meter room shall be on the ground floor and it will be adequately ventilated. It will also have a fire resistant door.
- The lighting of the escape route will be on independent circuit with power backup.
- Fire fighting and fire alarm provided in the building.