

The 278<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 14<sup>th</sup> June, 2016 under the Chairmanship of Dr. R.B. Lal for the projects / issues received from SEIAA. The following members attended the meeting-

1. Shri K. P. Nyati, Member
2. Dr. Alok Mittal, Member
3. Shri R. Maheshwari, Member
4. Dr. Mohini Saxena, Member
5. Shri. A. A. Mishra, Secretary

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

**1. Case No. – 2093/2014 Executive Engineer-6, Bhopal Development Authority, Pragati Bhawan, Press Complex, M.P. Nagar, Zone-1, Bhopal-462011 Prior Environment Clearance for approval of proposed residential project "Misrod Upnagar" at Village-Bawadia Kalan, Tehsil-Huzur, District-Bhopal (MP) . Plot area of the project is 73.55 Ha and total built-up area proposed is 88362.74 m2. (ToR approved 172 SEAC meeting Meeting dt. 22/02/15, ToR letter issued vide letter No. 65 dt. 10/04/15)FoR – Building Construction. EIA Presentation.**

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 case was discussed in the 172<sup>nd</sup> SEAC meeting dated 22/02/2015 wherein 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 – 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.

PP has submitted the EIA and case was scheduled for the EIA presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings after hearing from PP. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

2. **Case No. – 2688/2015 Mr. L.K. Batle, Executive Engineer, M.P. Housing & Infrastructure Development Board, Div.-5, Satellite Plaza, 1st Floor, Ayodhya Bypass, Bhopal-462041 (M.P.) Prior Environment Clearance for proposed Residential Project "Ayodhya Phase-V Part-II" of M. P. Housing & Infrastructure development Board, Bhoapl, at Khasra No. – 113/1, 113/1/2, 122, 125, 130, 129, 131, 133, 134, 348/136, 324/136, Village-Narela Shankari, Tehsil-Huzur, District-Bhopal (M.P.) Total Plot Area- 36.80 Acre, Total Built up Area- 68478.06 Sq. mt EIA discussed in 275 dt. 12/5/16 FoR- Building Construction.**

This is case of **Residential Project "Ayodhya Phase-V Part-II"**. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Khasra No. – 113/1, 113/1/2, 122, 125, 130, 129, 131, 133, 134, 348/136, 324/136, Vill.-Narela Shankari, Teh.-Huzur, District-Bhopal (M.P.) Total Plot Area- 36.80 Acre, Total Built up Area- 68478.06 Sq. mt. The project requires prior EC before commencement of any activity at site.

The case was presented by the PP and their consultant in the 196<sup>th</sup>. SEAC meeting dated 02/06/15 wherein it was observed that the project is part of already existing / operational project. The approval of plan from Town & Country Planning Department for complete project (i.e. existing as well as proposed) was granted in year 2003. Thus, from the above it appeared that this is an expansion of an existing township project. A clarification on the issue was, therefore, sought from the Commissioner Housing Board. Accordingly, the PP had submitted revised application mentioning the facts.

The case was placed for discussion in 223<sup>rd</sup> SEAC committee meeting held on 15/09/15 wherein it was informed that the PP has submitted the requisite information about the existing/ operational projects. Committee decided that since PP has submitted the reply they may be called for the presentation on any subsequent date of SEAC's meetings.

The case was presented by the PP and their consultant in the 230 SEAC meeting dated 26/10/2015 wherein after presentation and deliberation, it was decided to issue standard TOR prescribed by MoEF&CC as in a similar project of the PP at the adjacent site, the TOR was issued for conducting EIA vide 192<sup>th</sup> meeting of SEAC dated 08/05/2015 with following additional TOR:

1. Explore the possibility of treatment of sewage from built-up projects constructed prior to 2006 notification and include in the same T&CP approval.
2. Explore the measures for conservation of water even in the existing built up projects of same T&CP approval.
3. Concept and design of STP has to be finalized and presented.
4. Plantation scheme with provision of double row peripheral plantation to be furnished.

PP has submitted the EIA and case was scheduled for the EIA presentation. The case was presented by the PP and their consultant in the 275<sup>th</sup> SEAC meeting dated 12/05/2016 wherein Committee observed that there are many inconsistencies/mismatch in the report. Even some of the TOR's have not been addressed in the report. For example, some of the discrepancies in the report are as follows:

1. At page 9 it is mentioned that 'Land Detail in a format are provided on Page No. 14 but there is no such table is on page 14.
2. At page 8 it is mentioned that necessary clearance from the competent authority for drawl of requisite quantity of water for project is attached at Annex –V but it not necessary clearance but contour Map on Annex 5.
3. At section 2.1.2 of page26 it is mentioned that T & CP approved drawing of project is attached as Annexure III, but no such drawing is available in Annexure III.
4. In compliance of TOR point "Arrangements proposed / made to protect the water bodies" are reported to be provided in Chapter no.2 at page no. 50-51 but in the EIA report on this page "Historical data on climate condition" is provided.
5. Backup calculations of water demand of 367 KLD is not provided in the EIA report.

The PP is therefore requested to properly address the relevant TOR's and provide necessary information as required, make necessary corrections in the EIA report and submit it for

further considerations. It was also suggested by the committee that PP should explore the possibility of providing solar water heating systems in all the duplex.

As above, PP has submitted the EIA report and case was scheduled for the presentation wherein PP vide letter no. 1173 dated 14/06/2016 that they need 05 days time for submission of revised EIA incorporating all suggestions given by the committee in the earlier meeting. The Committee accepted the request and decided to schedule the case in the next meeting.

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

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

**LOCATION DETAILS**

<b><u>S.No</u></b>	<b><u>Details</u></b>	<b><u>KARAM PROJECT</u></b>
1	Latitude	22 <sup>0</sup> 22' 4.7"
2	Longitude	75 <sup>0</sup> 29' 3.5"
3	State	Madhya Pradesh
4	District	Dhar
5	Tehsil & Block	Dharmapuri
6.	River	Karam, a tributary of river Narmada
7.	Accessibility	At a distance of 50 km from Dhar.

**BRIEF DESCRIPTION OF THE PROJECT**

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

**NECESSITY & PROJECT BENEFITS**

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

**SITE SELECTION CRITERIA FOR PROJECT AREA**

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

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

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

**HYDROLOGY (Approved by BODHI)**

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

**RESERVOIR**

S.No	Particulars	Value
1.	Top of Bund Level, (m)	R.L. 316.00
2.	Maximum Water Level , (m)	R.L. 313.20
3.	Full Reservoir Level, (m)	R.L. 312.00

4.	Crest Level (m)	R.L. 302.00
5.	Dead Storage Level, (m)	R.L. 284.00
6.	Deepest River Bed Level, (m)	R.L. 264.00
7.	Top Width of Dam (m)	6.00
8.	Height of Dam, (m)	52.00
9.	Gross storage (MCM)	43.98
10.	Live storage (MCM)	40.53
11.	Dead storage (MCM)	3.44
12.	Length of main Dam, (m)	564.00
13	Length of Spillway, (m)	96.00
14	No. of spillway gates, (m)	5 numbers radial gates of size 10m X15m
15	Length of main gravity pipe canal(km)	17.24 Km (pressure Irrigation)

**WATER PLANNING**

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

**RESETTLEMENT AND REHABILITATION PLAN**

- ❑ There are 4 villages of Tehsil Dharmapuri namely Utawali, Bhaisakho Khurd, Bhaisakho Kalan and Lalgah are coming in full submergence and 04 number villages Kothida, Chowki (Tehsil Dharmapuri), Jamanda and Saray(Tehsil Dhar ) are coming in partial submergence.

- ❑ Provision for B-Land Rs. 49.55 Cr taken in the project.
- ❑ Resettlement & Rehabilitation (R&R) is being prepared in accordance with the guidelines of the “Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013”.

The case was presented by the PP for issuing of TOR to carryout EIA studies with site specific details. The committee after deliberations decided that following additional TORs along with standard TOR issued by the MoEF&CC:-

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
  2. PP should provide preliminary survey report as approx 50% of the area is forest land. Since project involves forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
  3. If there is any mining activity in the area, same should be discussed in the EIA report.
  4. As approximately 50% of the area under submergence in forest land, PP should provide proper justification for selection of site with details of alternative sites considered.
  5. If the height of proposed dam is 50 meters, PP should explore the possibility of having mini hydel project.
  6. Aerial distance of interstate boundary from the project duly verified by the competent authority site should be submitted.
  7. Cost benefit analysis including environmental factors should be given in the EIA report.
  8. Green belt plan and catchment area treatment plan be provided in the EIA report.
  9. Inventory of existing trees and their management should be provided in the EIA report.
4. **Case No. - 5200/2016 Executive Engineer, Office of Executive Engineer, Water Resources Department, Manawar Distt. – Dhar (M.P.) Prior Environment Clearance for Berkheda Medium Project" of Water Resources Department, Kukshi/Berkheda. Live capacity - 52.04 MCM, Cultivable Command Area - 9900 ha, Catchment Area - 382.9 sq., Dam Length - 889.15 M, Spillway - 147.00 M, Maximum height of Dam - 36.68 M Ha. FoR- ToR ( River Valley Project)**

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



Maximum height of Dam - 36.68 M ha. The project requires prior EC before commencement of any activity at site.

**Location Details**

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

**BRIEF DESCRIPTION OF THE PROJECT**

- ✘ Berkheda Irrigation Project is proposed on River Uri near Tole/Berkheda village of Tehsil Kukshi, District Dhar located at Latitude 22<sup>0</sup>21'8.7" and Longitude 74<sup>0</sup>54'44.9".
- ✘ The Project is envisaged to have a live storage capacity of 52.40 MCM.
- ✘ 0.60 MCM has been reserved for drinking purpose for Kukshi Block.
- ✘ Total CCA of the Project is 9900 ha, benefitting 40 villages of Dhar District.
- ✘ Total cost of the project is Rs. 308.56 crores.

**Necessity & Project Benefits**

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

**SITE SELECTION CRITERIA FOR PROJECT AREA**

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

**DETAILS OF SUBMERGENCE AREA**

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

**Hydrology (Approved by BODHI)**

<b>S.No</b>	<b>Particulars</b>	<b>Value</b>
1.	Total Catchment area (sq.km)	382.90
	Intercepted Catchment area (sq.km)	184.41
	NetCatchment area (sq.km)	198.49
2	Average Annual Rainfall (mm)	751.22

3	Designed flood (SPF) (Cumecs)	4985.38
4	Net 75% dependable yield available (MCM)	52.40

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

### **VILLAGES UNDER SUBMERGENCE**

- ❖ No Village is coming under full submergence.
- ❖ Partially Submerged Villages : 07 No., Tehsil Kukshi and Gandwani
- ✘ Total effected Population of villages : 684Nos ( ST 684, SC 0)
- ✘ Total effected No. of Families in villages : 168Nos (ST 168, SC 0)
- ✘ Number of Houses : 65 No.

### **RESETTLEMENT AND REHABILITATION PLAN**

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

The case was presented by the PP for issuing of TOR to carryout EIA studies with site specific details. The committee after deliberations decided that following additional TORs along with standard TOR issued by the MoEF&CC:-

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
2. If there is any mining activity in the area, same should be discussed in the EIA report.

3. As area under submergence includes forest land, PP should obtain forest clearance and provide status in the EIA report.
  4. Aerial distance of interstate boundary from the project duly verified by the competent authority site should be submitted.
  5. Cost benefit analysis including environmental factors should be given in the EIA report.
  6. Green belt plan and catchment area treatment plan be provided in the EIA report.
  7. Inventory of existing trees and their management should be provided in the EIA report.
  8. It was also suggested by the committee that PP should explore the possibility of reducing the submergence of forest area.
5. **Case No. -5192/2016 Shri Sanjay Kumar Jain, CMD, M/s MOD Read Infra, R-59, Zone-II, M.P. Nagar, Bhopal (MP)-462011 Prior Environment Clearance for Construction of Proposed Residential Project "Real Infra" at Patwari Halka No. – 25, Khasra No.-25/1, 27, 26, 28, 32/1/4, 32/1/5, 31/1, 32/1/1, 32/1/2, 32/1/3, 24, 25/2, Village-Rapadiya, Tehsil-Huzur, District-Bhopal (MP), Total Land Area- 1,00,,016.1 M<sup>2</sup>, Net Plot Area- 71,998.39 M<sup>2</sup>, Total Built up Area- 1,12,,943.98 M<sup>2</sup>.For – Building Construction.**

This is case of Residential Project "Real Infra" at Patwari Halka No. – 25, Khasra No.-25/1, 27, 26, 28, 32/1/4, 32/1/5, 31/1, 32/1/1, 32/1/2, 32/1/3, 24, 25/2, Village-Rapadiya, Tehsil-Huzur, District-Bhopal (MP), Total Land Area- 1,00,,016.1 M<sup>2</sup>, Net Plot Area- 71,998.39 M<sup>2</sup>, Total Built up Area- 1,12,,943.98 M<sup>2</sup>.The project requires prior EC before commencement of any activity at site.

**Area Details:**

Total Plot area	1,00,016.1 m <sup>2</sup>	
Area under road widening	2,515.36 m <sup>2</sup>	
Area for Future Expansion	25,502.35 m <sup>2</sup>	
Net Plot Area	71,998.39 m <sup>2</sup>	100%
Ground Coverage	Permissible: 21,599.51 m <sup>2</sup> (30%) Proposed: 21,599.51 m <sup>2</sup> (30%)	30 %
Internal Roads /Paved area	31,563.45 m <sup>2</sup>	43.8%
Landscape	14,315.45 m <sup>2</sup>	19.8%
Area for Surface Parking	3800 m <sup>2</sup>	5.27%

Permissible FAR	Permissible FAR on net plot area (1.25) = 89,997.98 m <sup>2</sup> Additional FAR against road widening @ 2.5 of 2515 m <sup>2</sup> = 6288.4 m <sup>2</sup> <b>Total Permissible FAR – 96,286.38 m<sup>2</sup></b>	
<b>Total FAR area Proposed (as per approved plans)</b>	87,249.5 m <sup>2</sup>	
Non FAR	Informal Sector = 3,374.92 m <sup>2</sup> Stilt Area = 21,599.58 m <sup>2</sup> Service area= 719.98 m <sup>2</sup> (1% of net plot area)	1%
<b>Total Built up area</b>	<b>1,12,943.98 m<sup>2</sup></b>	

No. of Trees	Total no. of trees required: 1 Tree/ 100 m <sup>2</sup> of Open Area = (Total Planning Area-Ground Coverage)/100 = 50,398.88/100= 503 Trees Proposed: 520 Trees
Maximum height of building	22 m approx
No. of Towers	12 Blocks ( 5- HIG Blocks, 4- MIG Blocks, 3- Sr. HIG blocks) + EWS/LIG block
Area Utilization	S+6
No of units to be developed	No. of apartments: 936 EWS/LIG: 145
Estimated Population	Residential: 4680 (@ 5 person per unit) EWS/LIG : 725 (@ 5 person per unit) Floating: 50 (10% of total population) Staff: 25 (5% of total population)
Facilities	<ul style="list-style-type: none"> <li>Residential Apartments</li> </ul>

**Salient Features:**

Items	Details
Parking Required Parking provided	872 ECS (@1ECS/100 sqm FAR Area) 872 ECS (Stilt +Open)
Power requirement& source	3120 KVA Source : Madhya Pradesh Kshetra Vidyut Vitran Company Limited
Power backup (DG Sets)	DG sets of 250 KVA (2*125 kVA)

Water requirement & source	Fresh water: 488 KLD Recycled treated water: 343 KLD Total water: 831 KLD Source: Municipal Supply
Sewage treatment & disposal	Amount of waste water generated : 659 KLD STP Capacity: 800 KLD (20% higher capacity) Technology: MBBR
Total solid waste generated	Domestic waste : 2714 kg/day Horticultural waste : 53 kg/day E- waste : <1kg/day

**Water/ Waste Water Details:**

<b>Water/ Waste water Details</b>	
Fresh water for domestic use	488 KLD
Recycled water for Flushing	244 KLD
Recycled water for Horticulture / Landscape	94 KLD
Other Low End Uses	05 KLD
<b>Total water requirement</b>	<b>831 KLD</b>
Waste water	659 KLD
<b>Source of water</b> - Municipal Water Supply/ Recycle of treated effluent	
STP Capacity – <b>800 KLD</b> (20 % extra for future expansion)	

**Solid Waste Generated:**

S.No.	Particulars	Population	Waste generated in kg/day
1.	Residential (@0.5kg/day) (including LIG)	5405	2702
2.	staff (@0.15 kg/day)	25	4
3.	Visitors (@0.15kg/day)	50	8
Total Solid waste generated		Approx. 2,714 kg/day	
Horticulture Waste (@ .0037/m2/day)		53 Kg/Day	
E-Waste (0.15 kg/C/Yr)		~2 Kg/Day	
STP Sludge		33 Kg/Day	

**Parking Details**

Required Parking	
Residential Parking@ 1ECS/100 m <sup>2</sup> of built-up area	872 ECS
Provided Parking	
Stilt Parking area (Vehicle Space@ 30 m <sup>2</sup> / ECS)	720 ECS
Open Parking area (Vehicle Space@ 25 m <sup>2</sup> /ECS)	152 ECS
Total Provided Parking Space	872 ECS

**Power Requirement & Back up**

Power requirement	3120 KVA
Source of power	Madhya Pradesh Kshetra Vidyut Vitran Company Limited
Backup power supply arrangement	250 KVA (2 x 125 kVA)
Location of gensets	Open

Nos.	Capacity of DG set (KVA)	Stack Height Provided (m)
2	250	6.0 m + Building Height

**Rain water Harvesting:**

Peak Run off				
Max, Rainfall Intensity 40 mm/hr				
Location	Runoff Coefficient	Area m <sup>2</sup>	Rainfall intensity (in m)	Peak Run off in m <sup>3</sup> /hr
Roof Area	0.8	21,599.51	0.04	691
Paved area	0.6	31,563.45	0.04	757
Green Area	0.2	14,315.45	0.04	114
Total Runoff m <sup>3</sup> /hr				1562

Total Runoff = 1562 m<sup>3</sup>/hr

Taking 15 minutes Retention Time,

Hence No. of pits required =  $390/37.7 = 10.3 = 10$  pits

**Provided: 12 Pits**

Pits required for roof top harvesting: 5 pits

The submissions made by the PP were found satisfactory and acceptable and hence the committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 488 KLD.
  2. The excess treated water will be used for watering of municipal road side green area or efforts shall be made to supply this water to the construction sites for use in the construction works.
  3. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 520 no of trees will be planned in residential area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
  4. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
  5. STP other than equalization tanks and treated waste water storage tanks should be constructed above the ground.
  6. Power back-up for un-interrupted operations of STP shall be ensured.
  7. CFL/LED should be preferred over of tube lights.
  8. Fund should be exclusively earmarked for the implementation of EMP.
  9. MSW storage area should have 48 hours storage capacity.
  10. Dual plumbing should be provided.
  11. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
  12. Explore the possibility of using solar water heating systems.
  13. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
  14. PP will obtain other necessary clearances/NOC from concerned authorities.
  15. The commitments / plans submitted by PP vide their letter dated 14/06/2016 should be complied with.
6. **Case No. - 5195/2016 Director, M/s Mahavir Coal Resources Private Limited, Jain Complex, Pureni, Katni (MP) Prior Environment Clearance for Coal Washery Plant of 0.95 MTPA/150 TPA Ha. at Khasra No.-593, 596, 597, & 598, Village-Noudiha, Tehsil-Chitrangi, Distt.-Singrauli (M.P.)FoR- ToR.**

This is a case of EC to the project on Coal washery. Project is covered under EIA notification and mentioned as item no. 2 (a) in the schedule of EIA notification, by virtue of its location and the capacity project falls under category B. Hence it requires prior EC from



SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

### Project Details

<b>Project Site (Site I)</b>	Noudiha, Tehsil- Chitrangi, District- Singrauli, Madhya Pradesh	
<b>Alternative Sites Explored</b>	Site II- Bamhnidand, Site III- Chamrauti Tola, Site IV- Pipra.	
<b>Location</b>	Village- Noudiha, Tehsil- Chitrangi, District – Singrauli, State- Madhya Pradesh	
<b>Co-ordinates</b>	<b>Latitude</b>	<b>Longitude</b>
<b>Capacity</b>	24°12’51.2” N	82°34’20.6” E
<b>Technology</b>	‘Batac Jig technology’ or ‘Heavy Media Bath’ technology.	
<b>Plot/Survey/ Khasra No.</b>	Village Noudiha: Plot No. 593, 596, 597 & 598.	
<b>Water Intake Point</b>	Ground Water	
<b>Nearest Railway Station</b>	Mahdeiya Rail Station (1.3 Km, ESE)	
<b>Nearest Airport</b>	Lal Bahadur Shastri International Airport, Varanasi (139 Km)	
<b>Nearest Sea Port</b>	Dhamra Port, (590 km)	
<b>Distance from Inter-state boundary</b>	Inter-state boundary with Uttar Pradesh from project site at 12.2 km in South East direction.	
<b>Seismological Information</b>	Sesmic Zone III	
<b>Project Cost</b>	Approx. 2,990.27 lacs	

### Project Requirements

Coal	2900 TPD .
Water	Total water requirement 4355 KLD, Make up fresh water is 648 KLD.
Land	Total area 4.744 Hectares/ 11.722 Acres.
Electricity	Total power requirement 750 KVA. Sourced from MP Poorva Kshetra Vidhyut Vitaran Company.

**Comparative Analysis of Alternate Acceptable Sites**

Sl. No.	Factors	Site I (Noudiha)	Site II (Bamhnidand)	Site III (Chamrauti Tola)	Site IV (Pipra)
1	Latitude	24° 12' 50.5" N	24° 12' 20.5" N	24° 18' 29.5" N	24° 07' 10.1" N
	Longitude	82° 34' 20.1" E	82° 28' 20.4" E	82° 34' 21.2" E	82° 29' 48.8" E
2	Location	Village Naudiha	Village Bamhnidand	Village Chamrauti Tola	Village Pipra
3	District	Singrauli	Singrauli	Singrauli	Singrauli
4	Site contour	396 - 402 m	400 - 405 m	424 - 434 m	430 - 434 m
5	Area	4.74 Ha.	4.46 Ha.	4.24 Ha.	5.13Ha.
6	Land type & Ownership	Government barren Land	Single Crop Agriculture Land & Open Scrub Land	Single Crop Agriculture Land & Open Scrub Land	Single Crop Agriculture Land
7	Families affected	Nil	30-35	30	15-20
8	House Hold Displaced	Nil	Nil	Nil	Nil
9	Distance from nearest railway	Mahdaiya Rly Station 1.4 km	Bargawan Rly Station 1.7 km	Mahdaiya Rly Station 10.7 km	Bargawan Rly Station 9.3 km
10	Approach road	NH-75	NH-75	Singrauli Chitrangi Road,	Major District Road

11	Environment sensitivity	No sensitive receptors* within 15 km	No sensitive receptors* within 15 km	No sensitive receptors* within 15 km	No sensitive receptors* within 15 km
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### The Process of Coal Washing

- Raw coal from mines will be transported to the coal washery by tippers/ dumpers.
- Trucks will either dump coal into the ground hopper or on to the nearby ground dump from where the same shall be fed in the ground hopper.
- From the ground hopper the raw coal will be fed to a rotary breaker for primary sizing of coal to 200mm.
- The primary sized coal shall then be subjected to close circuit crashing & screening & finally sized to minus 50 mm. The sized coal shall be taken to a stronger bunker.
- 0.5 to 50 mm Raw Coal from bunker will be fed to the Coal - Washery ( Batac Jig) for washing wherein washed and reject coal will be separated out and will be dumped at two different places.
- Coal Slurry will be forwarded to the Thickener, Drum Filter and Settling Tanks so the fine Coal will be separated out and water will be recycled.
- The coal washery plant follow will two cut process.

### Project Requirements

#### Water Requirement:

- Daily makeup water requirement will be 685 m<sup>3</sup>/day.
- Required water will be collected from ground water from bore wells inside the proposed plant after taking necessary permission from CGWB.

#### Power Requirement:

- 750 KVA power will be required for the unit which will be sources from the Madhya Pradesh Poorve Khetra Vidhyut Vitaran Company.

#### Land Requirement:

- 4.744 Hectares land has already been allotted to the Proponent by Govt. of Madhya Pradesh.
- Project site is barren land with few scattered trees.
- As per revenue record, total land area falls under Government land.

**Water Requirement**

Sl. No.	Particulars	Daily Water Requirement (m <sup>3</sup> /day)	Makeup Water Requirement (m <sup>3</sup> /day)	Effluent (m <sup>3</sup> /day)	Mode of Treatment/ Disposal
1	Coal Washing	4318	648	3670	Settling thickener recycled in process
2	Dust Suppression	30	30	0	
3	Plantation	5	5	0	
4	Domestic	2	2	1	1m <sup>3</sup> /day water discharged in septic tank and soak pit system
	<b>Sub Total</b>	<b>4355</b>	<b>685</b>	<b>3671</b>	
5	Fire Fighting (One Time only)	200	-	-	
<b>Total</b>		<b>4555</b>	<b>685</b>	<b>3671</b>	

**Trips for Coal Transportation**

Sl No.	Particulars	Coal (TPA)	Coal (TPD)	Trips per Day
1	Raw Coal	9,50,000	2,602.74	130
2	Washed Coal	6,55,000	1794.52	90
3	Reject Coal	2,85,000	780.82	39

The salient features of the project and proposed TOR were presented by the PP and his consultant wherein after presentation committee decided to issue standard TOR prescribed by the MoEF&CC with following additional TOR's:

1. Area proposed for fine/dust rejects, clean coal and rejects along with APCD should be discussed in the EIA.
  2. Is it a two cut washery or three cut washery? If it is two cut washery ratio of clean coal and reject coal be discussed in the EIA.
  3. Gross calorific value along with ultimate analysis of clean coal and rejects.
  4. Plan for management of existing trees in the proposed lay out be included in EIA as during presentation it was observed that there are around 30 fully grown trees of Mahua, on the site.
  5. Air Pollution Control Devises proposed in crushing, screening and all transfer points should be discussed in the EIA.
  6. Drawing & design of settling tanks with all technical details should be detailed out in the EIA report.
  7. Fire fighting arrangements proposed should be detailed out in the EIA report.
  8. PP should explore the possibility of using water from the abandoned mines located nearby, as seen in the Goggle image.
  9. PP should also carryout hydro geological studies of the proposed area and should obtain CGWB permission for abstraction of ground water. PP should also submit that as per CGWB, the proposed area falls in which zone.
  10. Process flow diagram should be submitted with water & material balance in the EIA report.
  11. Washing technology should be freezed and same should be detailed out in the EIA.
  12. Videography of site and nearby existing abandoned mines should be submitted with EIA report.
7. **Case No. - 5205/2016 Ms. Pramila Sharma, CEO/General Manager, J.K.Medical Waste Management System, 208-Vaibhav, F-Block, Surendra Place, Bhopal (M.P.) – 462026 Prior Environment Clearance for "Common Biomedical Waste Treatment Facility" Plot No. – 55/5x, 2, at Village- Godhan, Tehsil - Chanderi, District- Ashok Nagar, (M.P.), Cat. 7 (d), The Project is aimed to cater 4000 Beds - @ 0.18 kg/day/bed= 0.7 TPD, Existing Area - 1.03 acres (0.418 ha.) FoR- ToR ( CBWM Project)**

The Proposed project is of Common Biomedical Waste Treatment, Storage and Disposal facilities (TSDFs) of falls under **Category B, schedule 7(da)** as per the EIA notification 14th Sep, 2006. Hence it requires prior EC from SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

**Project Details**

<b>Categorization of Project</b> (MoEF Notification S.O. No. 1142(E) dated 17-04-2015 & Subsequent Amendments)	
Project Activity	7(da) -- Bio-Medical Waste Treatment Facilities
Category	Category B
<b>Key Details of the Project</b>	
Project Capacity (Proposed)	0.7 TPD (4000 beds- @0.18 kg/day/bed)
New/Expansion/Modernization	New
Service Area	<i>Sagar, Chattarpur, Shivpuri, Guna, Ashoknagar, Tikamghar, Bhind, Datiya.</i>
Land Area	1.03 Acres (0.418 ha)
Project Cost	INR 1 Crore
Baseline Monitoring Period	April 2016 – June 2016 (in progress)
<b>Employment</b>	
Full Time Employees	28
Contract Employees	The labours and workers will be hired from near by villages in construction phase.
<b>Location Details</b>	
Location	Godhan Village, Chanderi Tehsil, Ashok Nagar district, Madhya Pradesh
Plot No.	55/5x, 2

Coordinates	24° 49' 28.85" N, 78° 08' 01.49" E
SOI Topo Map No.	G44S1 & G44S2
Nearest Railway Station	Dailwara Railway station- 25 km South-East.
Nearest Airport	Jhansi Airport (85 km) North-East.
Nearest Town	Chanderi (approx. 13 km), South.

### Proposed Infrastructure

The following components are proposed to be utilized for efficient processing of **0.7 TPD of Biomedical waste** generated:

- Administration Building
- Staff Locker and wash room
- Vehicle Washing bay
- Effluent Treatment Plant
- Incinerator and Incineration shed
- Sterilization room
- Store room
- Workshop
- Security office
- Transformer
- DG set

### Proposed Equipment

S.No	Equipment	Installed Capacity	Number
1	Incinerator	100kg/hr	1
2	Autoclave	430 liters/batch	1
3	Shredder	50 kg	1
4	Effluent Treatment Plant	2.5 KLD	1

**Disposal of Waste**

S.No	Waste Category	Suggested Disposal Options
1	Plastic wastes after disinfection and shredding	Sale to plastic waste recycler permitted by the SPCB/PCCs for recycling or municipal sanitary landfill
2	Disinfected Sharps	sent to recycling
3	Incineration Ash	TSD/ Landfill
4	Treated waste water	Sewer/ drain or recycling/reuse

The salient features of the project and proposed TOR were presented by the PP and his consultant wherein after presentation committee decided to issue standard TOR prescribed by the MoEF&CC with following additional TOR's:

1. How the various waste streams will be segregated and precautions proposed for the health of workers should be discussed in the EIA.
2. How the autoclaved materials will be disposed off in environmentally sound manner.
3. How the CPCB guidelines will be complied in respect of proposed incinerator and compliance to BMW rules, 2016.

**8. Case No. - 4258/2015 Shri Virendra Pokharna, Director, M/s Indra Industries Limited, Village-Sandla, Tehsil-Badnawar, District-Dhar (MP)-452010 Prior Environment Clearance for expansion of Chemical Fertilizers Proposed Capacity - SSP from 45,000 to 75,000 MTPA & GSSP-1,20,000 MTPA, at Khasra no.- 2132/8, 2131/1, 2132/1/2/1, 2132/5, 2132/1/13, Village-Sandla, Tehsil-Badnawar, District-Dhar (MP) (SEAC 272 meeting dt-31/03/16. Rev. Application rec. dt-31/5/16 received file again dt-8/3/16) The TOR of this project was issued by MoEF&CC 28/01/2013 and the file was transferred to MPSEIAA on dated 18/08/2015.**



The project pertains to Environment Clearance for expansion of Chemical Fertilizers Proposed Capacity - SSP from 45,000 to 75,000 MTPA & GSSP-1,20,000 MTPA, at Khasra no.- 2132/8, 2131/1, 2132/1/2/1, 2132/5, 2132/1/13, Village-Sandla, Tehsil-Badnawar, District-Dhar (MP) and the EIA is forwarded by the SEIAA to SEAC for appraisal and necessary recommendations.

The case was earlier scheduled in the 270<sup>th</sup> SEAC meeting dated 01/03/2016 wherein the PP and their consultant came for the presentation but SEAC members informed that they have not received the EIA document well in advance and thus unable to study the project. Thus committee decided that PP may be called in subsequent meetings of SEAC for presentation and advised PP to send the documents well in advance for reference.

The TOR of this project was issued by MoEF&CC 28/01/2013 and the file was transferred to MPSEIAA on dated 18/08/2015 for further considerations. Chronology of event is given below:

- Approval of TOR by MOEF&CC January 2013
- Public hearing on 28 Oct 2014
- Online submission the Final EIA report to MOEF&CC on 1<sup>st</sup> May 2015.
- Re-categorization of the project as category B due to exemption from EC for GSSP and Zinc Sulphate as the amendment in EIA notification in May 2015.
- Transfer of case file to Madhya Pradesh SEIAA for further consideration by MoEF&CC on 31<sup>th</sup> May 2015.
- Re-Submission of online application on MPSEIAA on 19<sup>th</sup> September 2015.

Total project area is 17750 m<sup>2</sup>. of which 5857 m<sup>2</sup> area is proposed for green area development. Total water requirement is estimated as 90 KLD. Total investment is about Rs 5.00 crore. It is proposed as zero discharge plant.

The case was presented by the PP and their consultant in the 272<sup>nd</sup> SEAC meeting dated 31/03/2016 wherein after presentation it was observed by the members that very casual approach has been adopted by the consultant while carrying out the EIA studies and the quality of EIA report is also very poor. Thus committee decided that EIA needs to be revised in the light of following observations:

1. The selection of ambient air quality monitoring stations is inappropriate as other than the project site, all the other monitoring stations were located >2.00 Km or above distance while the prediction is showing maximum incremental GLC at a distance of 200 meters.

2. With the expansion of the project maximum incremental PM is shown as 103 ug/m<sup>3</sup> but sufficient protective measures / Pollution Control Devices are not proposed in the EMP to address this issue.
3. Regional Geology is provided in the EIA which has no relevance with the project.
4. Coal is mentioned as expected Hazardous waste.
5. Rs. 80.00 lacks (out of 5.00 cr. For expansion) has been proposed under the green belt development for which no backup calculation has been submitted.
6. Complete proceedings of public hearing are not provided in the EIA report.
7. From zinc sulphate plant hydrogen generation is shown in traces.
8. As per the EIA report 33% area is shown for plantation while in the same report it is mentioned that plantation depends on rain fall.
9. In table 1.1, TOR compliance status for TOR no.6 it is mentioned that the details of consent to operate and authorization are given as Annexure-6 but the same is not annexed at annexure-6.

PP has submitted the EIA report and case was scheduled for the EIA presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings after hearing from PP. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

9. **Case No. – 3118/2015 Shri Mr. Bhupendra singh Rathod, Partner, M/s Rathod Pharma Chem, Plot No. 184-D, Industrial Area, AKVN, Meghnagar, Jhabua (M.P.)-457779 Prior Environment Clearance for approval of proposed expansion of M/s Rathod Pharma Chem at Plot No.- 184 – D, Vill.- & Teh.-Meghnagar, District-Jhabua (M.P.) Capacity- 20 MT/Month to 4000 MT/Month. ToR (236 SEAC Meeting dt. 01/11/15) Issued letter No. 1923 dt. 05/11/15 FoR - EIA Presentation.**

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation 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.

**PROJECT DETAILS**

Sr. No.	Features	Particulars
1	Name of Project	M/s. Rathod Pharma Chem

2	Project Location	Plot No. 184 -D, AKVN Industrial Area, Meghnagar, Ta - Meghnagar, Dist - Jhabua, M.P.
3	Co Ordinates	22 <sup>o</sup> 54'46.5"N, 74 <sup>o</sup> 33'46.1"E
4	S. No. in the Schedule of EIA Notification	5(f)
5	Category of the Project	B
6	Existing Production	4000 MT /year
7	Proposed Production	20 MT /M
8	Total project Cost	Existing: 1.37 Cr Proposed : 1.64 Cr. Total project Cost : 3.0 Cr.
9	Total capital Cost	167.5 Lacs
10	Total recurring Cost	98.5 Lacs
11	Water Requirement	Fresh : 8.5 KLPD Reuse :9.5 KLPD
12	Power Requirement	100 KVA + 50 KVA = 150 KVA
13	Total Plot Area	2400 Sq. meter
14	Greenbelt Area	816 Sq. meter

Sr. No.	Features	Description	Distance (Km)
1	Nearest village	Fatepura	1.0
2	Nearest town	Jhabua Meghnagar	15 3.0
3	Water Body Creek / Nalah / lake /Pond /reservoir /canal/ Rivers / Stream / Estuary / Sea	Nagari Nadi Anas River	3.90 Km 6.75 Km
4	Nearest Highway	State Highway - 39 National Highway - 59	0.47 km 10 km
5	Railway Station	Meghnagar	3.5
6	Airport	Ratlam	70
7	Historical / Archaeological Places	No Historical / Archaeological Places	--

		site within 10 km radius	
8	National park / wild life sanctuary / Reserve Forest land	No National park/ wild life sanctuary / Reserve Forest land within 10 km radius.	--
9	Nearest Hospital	Jeevan Jyoti Hospital	1.5

### DETAILS OF SOURCES

Sr. no.	Project Requirements	Existing	Proposed	Total After Expansion	Source/Remarks
1.	Total Water	1.0	17.0	18.0	For the proposed manufacturing activity the total water consumption will be 18.0 KL /Day. From that 9.0 KL will be condensed water from MEE, 0.5 KLPD Blow down & 8.5 KL/Day will be fresh water. Fresh Water is met from AKVNL, Meghnagar.
2.	Power	100 KVA	50 KVA	150 KVA	Madhya Pradesh Electricity Board
3.	Fuel Requirement				
A	Wood / Bio Coal / Lignite	0	5.0 MT /Day	5.0 MT /Day	Local Supplier
B	Diesel	0	25 L /Hr	25 L /Hr	Local Supplier

### Details of the total Land and Land break-up.

Sr. No.	Particulars	Land Area (Sq. m.)	% of Land Use
1	Plant facilities	400	16.66

2	Storage Area (Raw materials & Finished goods) & Administrative, other buildings	400	16.66
3	Utilities	150	6.25
4	ETP area	100	4.16
5	HW storage area	50	2.08
6	Roads, Parking	150	6.25
7	Green Belt & Tree Plantation Area	816	34.00
8	Open Area	334	13.94
Total		2400	100

### PRODUCT DETAILS

Sr. No.	Name of Existing Product	Existing (MT/Year)
01	Ferrous Sulphate	1000
02	Magnesium Sulphate	3000
Total		4000

Sr. No.	Name of Proposed Product	Chemical name	Quantity in MT / M.
1	H Acid	1-amino, 8-naphthol, 3,6-disulphonic acid	20
2	Violet Acid	1 NAPHTHOL 3:6 DI SULFONIC ACID	
3	PNCBOSA	Para Nitro Chloro Benzene Ortho Sulphonic Acid	

4	4 Sulpho Anthranilic Acid	2-Amino-4-Sulfo Benzoic Acid	
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**PACKING AND FINAL USE OF PRODUCTS**

Sr. No.	Name of Product	Packing	Storage	Final use
1	H Acid (1-amino, 8-naphthol, 3,6-disulphonic acid)	HDPE BAGS	Well ventilated Godown	Used in commercial Dyes such as direct, acid, reactive dyes etc.
2	Violet Acid (1 NAPHTHOL 3:6 DI SULFONIC ACID)	HDPE BAGS	Well ventilated Godown	colorant in cosmetic formulations that are hair dyes, colors, and coloring rinses
3	PNCBOSA (Para Nitro Chloro Benzene Ortho Sulphonic Acid )	HDPE BAGS	Well ventilated Godown	Used in commercial dyestuff & dyestuff intermediates etc.
4	4 Sulpho Anthranilic Acid (4 Sulpho Anthranilic Acid)	HDPE BAGS	Well ventilated Godown	Used in commercial dyestuff & dyestuff intermediates etc.
5	Ferrous Sulphate	HDPE BAGS	Well ventilated Godown	Fertilizer, ETP treatment, Dyes Intermediate
6	Magnesium Sulphate	HDPE BAGS	Well ventilated Godown	Fertilizer, Pharma Intermediate

**STORAGE FACILITY OF RAW MATERIAL**

Sr. No.	Name of Raw Material	Container Type	MOC Container	Physical form	At a time storage in MT	Max. Storage Capacity in MT
1	Nitric Acid	Tank	S.S.	Liquid	10	14.00
2	Acetic Acid	50 Lit Drum	H.D.P.E	Liquid	1	1.00
3	Methanol	200 Lit Drum	Plastic/M.S.	Liquid	1	1.5

4	Sulphuric Acid	Tank	M.S	Liquid	20	62.50
5	Oleum	Tank	M.S	Liquid	20	75.00
6	Spent Sulfuric Acid	Tank	M.S.R.L.	Liquid	20	292.50
7	ONT (Ortho Nitro Toluene)	Tank	Plastic/M.S.	Liquid	10	28.01
8	Glauber Salt	50 kg Bags	H.D.P.E	Solid	15	50.00
9	Naphthalene	25/ 50 kg Bags	H.D.P.E	Solid	10	25.00
10	Soda Ash	50 kg Bags	H.D.P.E	Solid	10	25.00
11	PNCB (Para Nitro Chloro Benzene)	50 kg bag	H.D.P.E	Solid	5	9.30
12	Salt	50 kg Bags	H.D.P.E	Solid	5	13.95
13	Cast iron Powder	50 kg Bags	H.D.P.E	Solid	5	13.00
14	Caustic Flakes	50 kg Bags	H.D.P.E	Solid	10	33.61
15	Limestone Powder	50 kg Bags	H.D.P.E	Solid	20	68.00
16	Magnesium Carbonate	50 kg Bags	H.D.P.E	Solid	10	25

**WATER CONSUMPTION & WASTEWATER GENERATION**

Sr . No.	Applicatio n	Qty. KL/Day					
		Water Consumption			Effluent Generation		
		Existing	Proposed	Total after expansion	Existing	Proposed	Total after expansion
01	Domestic	0.5	1.0	1.5	0.3	0.80	1.1
02	Industrial						
	Process	0.5	8.0	8.5	0.0	5.69	5.69
	Cooling	0.0	1.0	1.0	0.0	0.10	0.10

	Boiler	0.0	4.0	4.0	0.0	0.40	0.40
	Washing	0.0	1.0	1.0	0.0	1.00	1.00
	Gardening	0.0	1.0	1.0	0.0	0.00	0.00
	Scrubber	0.0	1.0	1.0	0.0	0.00	0.00
Total		1.0	17.0	18.0	0.3	7.99	8.29

**Overall water Balance only for Process: Unit is in KL /Day**

Sr. No.	Name of Product (Alternative 20 MT/M Production)	Water Consumption KL /Day	Spent Acid Consumption KL /Day	Spent Acid generation KL /Day	Waste water Generation on KL /Day
1.	H Acid (1-amino, 8-naphthol, 3,6-disulphonic acid)	1.66	7.14	10.15	1.90
2.	Violet Acid (1 NAPHTHOL 3:6 DI SULFONIC ACID)	2.0	11.70	16.84	4.0
3.	PNCBOSA (Para Nitro Chloro Benzene Ortho Sulphonic Acid )	2.98	--	3.59	--
4.	4 Sulpho Anthranilic Acid (2-Amino-4-Sulfo Benzoic Acid)	8.0	--	14.89	8.0

**DETAILS OF HAZARDOUS WASTE GENERATION**

Sr. No	Type of Waste	Quantity			Management
		Existing	Proposed	Total After Expansion	
01	ETP Waste (Cat. 34.3)	0	37.5 MT/M	37.5 MT/M	Collection, Storage, Transportation and disposal at TSDF.
02	Used/Spent Oil (Cat. No. 5.1)	50 L/Yr	0	50 L/Yr	Reused for lubrication of plant machinery.



03	Discarded Bags & containers (Cat. No.33.3)	0.250 MT /M	3 MT/M	3.250 MT /M	Bags/ Drums will be return back to raw material supplier.
04	Iron Sludge	31 MT /M	33 MT/M	64 MT/M	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
05	Gypsum Sludge	7 MT /M	146 MT/M	153 MT/M	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
06	Spray Drying Powder	0	6.5 MT /M	6.5 MT /M	Collection, Storage, Transportation and disposal at TSDF.
07	Glauber salt from Crystallization	0	82.5 MT /M	82.5 MT /M	Will be reused in process of Violet Acid and H acid.
08	Spent Acid	0	16.84 KL /Day	16.84 KL /Day	Collection, Storage, reuses in Plant or sell to authorize users.

**MANAGEMENT OF HAZARDOUS WASTE**

No.	Type of Waste	Source of Generation	Collection	Treatment	Storage	Disposal
01	ETP Waste (Cat. No.: 34.3)	Effluent Treatment Plant	Manual	Solar Drying	Packed into HDPE Bags, store into storage area	Collection, Storage, Transportation & Dispose to TSDF Site.
02	Spent Oil/Used Oil (Cat. No.: 5.1)	Plant Machineries	Manual	-	Separate store into SWSA after filling into drums.	Used Oil will be reused as a lubricant in plant machineries. Spent oil sell to authorized recycler.
03	Discarded Containers (Bag, Barrel, Drum) (Cat. No.: 33.3)	Production Section	Manual	Washing & Drying	Separate store into SWSA.	Return back to raw material supplier or used for packing of ETP waste.
04	Iron Sludge	Process	Manual	-	-	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample

05	Gypsum Sludge	Process	Manual	-	-	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
06	Spray Drying Powder	Spray Dryer	Manual	-	Separate store into SWSA.	Collection, Storage, Transportation & Dispose to TSDF Site.
07	Glauber salt from Crystallization	Process	Manual	-	Separate store into SWSA.	Will be reused in process of violet Acid ad H Acid.
08	Spent Acid	Process	Manual	-	Separate store into SWSA.	Collection, Storage, reuse in Plant or sell to authorized users.

The TOR was issued to this unit in the 206<sup>th</sup> SEAC meeting dated 21/07/2015 and Committee also decided to carryout site visit for this proposed unit and if any additional TORs are to be included in EIA, will be given after site visit. The site visit was carried out by sub-committee of SEAC on dated 20/12/2015 and the report was discussed in the 256<sup>th</sup> SEAC meeting dated 03/01/2016 wherein PP was asked to provide information on following:

- a. Justification for the installation of above equipments for the production of only 4000 MT/Y of existing products.
- b. The list of equipment and machineries with year of installation of each one of them after 28/08/2014 from date of consent to establish obtained from M. P. Pollution Control Board.
- c. The product-wise monthly production details from 2014 till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
- d. The product-wise monthly consumption of raw materials from 2014 till date.
- e. Copies of consent and authorization under HW (M,H & TBM) Rules, 2008 obtained from M. P. Pollution Control Board.
- f. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.
- g. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
- h. Details of hazardous wastes with their respective quantities generated since 2014 and their mode of disposal with documentary evidences.
- i. Details of any notices/directions issued by the M. P. Pollution Control Board or any other Govt. Department during last three years and their compliance statement.

Regional Officer, M. P. Pollution Control Board, Dhar was also instructed to provide details of any notices/directions issued to the company and compliance report of consent conditions issued for earlier products. Similarly, analysis reports of waste water and any other solid/hazardous wastes collected from the premises of the unit, if any.

Regional Officer, M.P. Pollution Control Board, Dhar submitted the information vide letter no. 13 dated 11/04/2016 and similarly PP submitted the desired information vide letter dated 02/02/2016. As above, PP also submitted the EIA report and case was scheduled for the presentation.

The case was presented by the PP and their consultant wherein after presentation, PP was asked to submit response on following for further consideration of the project has to come up again for presentation with reply of above queries:

1. Maximum demand of water/month and its daily consumption should be recalculated and submitted.
2. Written commitment of PP that MEE will be operated by thermic fluid heater and proposal for standby thermic fluid heater.
3. Energy balance required for MEE and production process.
4. Detailed analysis for Iron Sludge, Gypsum Sludge, ETP Sludge, Spray Drying Powder for hazardous constituents.
5. Storage details of all hazardous wastes in premises with respect to storage area, liner details, arrangements made for leachates collection etc.
6. Precautions proposed for workers against exposure of raw materials/ intermediates having low boiling points.
7. TOR point no. 4(5), 4(9) and 5(2) needs elaboration.
8. Site specific risk assessment report as submitted report is not site specific.
9. Revised layout for proposed plantation.
10. Details of existing industries with their type should be resubmitted.

## **DISCUSSIONS BASED ON INSPECTION REPORTS**

- 10. Case No. - 4271/2015 Shri Vivek Chauhan, Partner, M/s Virasha Infrastructure, 25-6, WALMI Road, Chuna Bhatti, Bhopal-462016 Prior Environment Clearance for proposed Residential Project "Virasha Heights" at Khasra No.-401/4/1(kha), 401/4/2(kha), 401/2, 401/3, 401/4/3(gh), 401/4/3(ga), 401/4(ka), 401/4/3(kha), 400/2, 401/1, &**

**400/1, Village-Banjari, Tehsil-Huzur, District-Bhopal (MP) Total Plot Area- 29914.72 sqm, Built up Area -44591.3 sqm.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14<sup>th</sup> September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

**Site Specific details**

Particulars	Details
Location	Khasra No. 401/4/1(kha), 401/4/2(kha), 401/2, 401/3, 401/4/3(gh), 401/4/3(ga), 401/4(ka), 401/4/3(kha), 400/2, 401/1 & 400/1 at Village- Banjari, Tehsil-Huzur, District-Bhopal, Madhya Pradesh, India.
Type of Project	Building and large construction project
Category	B, Type- 8(a)
Elevation (m)	467 m above mean sea level
Latitude and Longitude	(mentioned in Fig 4)
Current status of land	Residential as per Bhopal Master Plan, 2005
Type of facilities	Housing with basic amenities
Nearest Highway	Bhopal Bypass Road (NH-12) : 8.5km (E)
Nearest railway station	Habibganj Railway Station: 5.5 km (N) Misrod Railway Station: 2.5 km (S) Bhopal Junction Railway Station: 11 km (N)
Nearest airport	Raja Bhoj International Airport:16 km (NW))
Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Van Vihar National Park:10 km(NW)
Rivers/Lakes	Upper Lake: 11 KM (NW) Kaliasot Dam : 3.50 Km (NW) Shahpura Lake: 3.50 km (N) Kaliyasot River front: 33 m (NE) Kerwa Dam : 6.5 Km (W)

Seismic zone	Seismic Zone-II as per BIS 2002 map.
Defense installations	Cantt Area (Bairagarh): 17 km (NW)

### Area Statement

S. No	Items	Details
1.	Type of Building	Residential
2.	Total plot area	29914.72 m <sup>2</sup>
3.	Net plot area	29914.72 m <sup>2</sup>
4.	Ground Coverage Details	Permissible Multiunit @40% Plotted @60% <b>Proposed =11850.1 m<sup>2</sup></b>
5.	Permissible FAR	Permissible FAR @1.25 = 37393.4 sqm <b>Proposed FAR Total – 37393.4 m<sup>2</sup></b>
6.	Non- FAR details	Stilt = 6524.80 m <sup>2</sup> Informal Sector = 673.1 m <sup>2</sup>
7.	Total Built-up area	<b>37393.4 m<sup>2</sup></b> (As per MPVPR) <b>44591.3 m<sup>2</sup></b> including Non-FAR (MoEF)
8.	Open/ Park Area(Landscape)	<b>3239.76 m<sup>2</sup> (10.83% of net plot area)</b>
9.	Road and internal circulation space/ Paved area	<b>12059 m<sup>2</sup> (40.31%)</b>
10.	No. of Trees	Total no. of trees required: 1 Tree/ 100 m <sup>2</sup> of Open Area = (Total Planning Area-Ground Coverage)/100 = 18064.6/100=181 Trees <b>Proposed : 185 Trees</b>
11.	No of units to be developed	<b>No. of multi units: 384</b> <b>Duplex : 24</b> <b>EWS : 33</b>
12.	No of multi dwelling units	<b>8 Towers</b>

13.	Height of Building	21 m
14.	Area Utilization	(S+6)
15.	Estimated Population (fixed + floating)	Multiunit:1920 (@ 5 person per unit) Duplex : 120 (@ 5 person per unit) EWS : 165 (@ 5 person per unit) Floating: 221 (10% of total population) Staff: 110 (5% of total population)
16.	Parking facilities	<b>Required</b> Parking as per T&CP=250 Vehicle spaces Visitors Parking @10% = 25 Vehicle spaces <b>Total = 275 Vehicle spaces</b> <b>Provided:</b> <b>Stilt Parking = 217 Vehicle Space</b> <b>Open Parking = 60 Vehicle Space</b> <b>Total Provided Parking = 277 Vehicle Space</b>
17.	Power requirement &source	1896 kVA Source : MPMKVVCL, Bhopal
18.	Power Backup	1 DG sets of 165 kVA for common services
19.	Water Requirement and Source	Fresh water: 148 KLD Recycled treated water: 70 KLD Total water: 218 KLD Source: Municipal water supply
20.	Sewage Treatment and Disposal	Amount of waste water generated : 178 KLD STP Capacity: 210 KLD (~20% higher capacity) Technology : MBBR
21.	Solid Waste Generated	Domestic waste : 1554 kg/day Horticultural waste : 29 kg/day E- waste : <1kg/day

### Population Details

Particulars	Population
Residential Population	2040
Staff	110
Visitors	221
EWS/LIG	165

**Water Balance during Operation Phase**

S. No.	Description	unit/Area (in m <sup>2</sup> )	Total Occupancy	Rate of water demand (lpcd)	Total Fresh Water (KLD)	Total Flushing/Recycle d water (KLD)	Total Water Requirement (KLD)
1	Residential	408 Units	2040	Fresh Water @ 65 LPCD Flushing Water @ 21 LPCD	132.6	42.8	175.4
2	Informal Sector	33 units	165	Fresh Water @ 65 LPCD Flushing Water @ 21 LPCD	10.7	3.5	14.2
3	Staff	5% of total population	110	Fresh Water @ 30 LPCD Flushing Water @ 15 LPCD	3.3	1.7	5.0
4	Visitors	10% of total population	221	Fresh Water @ 5 LPCD Flushing Water @ 10 LPCD	1.1	2.2	3.3
<b>Total Domestic water</b>					<b>148</b>	<b>50</b>	<b>198</b>
6	Horticulture and Landscape	3239.76 sqm		5 l/sqm	--	16	16
7	Vehicle, Road washing and other low end uses				--	3	3
8	Cooling water for DG sets (For 4 hours/day runtime)	165 KVA		0.91KVA/Hr	--	0.6	0.6
<b>Total Water Requirement</b>					<b>148</b>	<b>70</b>	<b>218</b>
					<b>Grand Total = 218 KLD</b>		

**Parking Details**

<b>REQUIRED PARKING</b>	
Required Parking as per T&CP	250 Vehicle spaces
Visitors parking @ 10%	25 Vehicle spaces
<b>Total Parking Required</b>	<b>275 Vehicle spaces</b>
<b>PROPOSED PARKING</b>	
Stilt Parking	217 Vehicle Space
Open Parking	

	60 Vehicle Space
<b>Total Parking Provided</b>	<b>277 ECS</b>

### Solid waste Generation

Facilities Provided	Waste generation norms per unit	Basis of Assumption	Unit	Total Waste Generated (Kg/day)
Residential	0.30-0.6 kg/cap/day (i.e. 0.50 kg/cap/day taken)	Source: Manual for municipal solid waste management	2040 persons	1020
EWS	0.30-0.6 kg/cap/day (i.e. 0.50 kg/cap/day taken)	Source: Manual for municipal solid waste management	165 persons	82.5
Visitors	0.15 kg/cap/day	Source: Manual for municipal solid waste management	221 persons	33.2
Staff	0.15 kg/cap/day	Source: Manual for municipal solid waste management	110 Persons	16.5
Garden & open space	15 kg/Acre/day or 0.0037 kg/sq m/day	Discussion with Horticulturists	7796.7 sqm	28.8
Street Sweepings	0.05 to 0.2 kg/cap/day* Assume 0.15 kg/cap/day	Source: Manual for municipal solid waste management	2205 persons	330.8
Sludge	400 kg per MLD	Tifac	0.178	71.2
Waste Oil		Assuming one maintenance per year		Negligible
<b>Total Waste Generated (MT/day)</b>				<b>1583</b>

Case was presented by PP and their consultant in the 270<sup>th</sup> SEAC meeting dated 01/03/2016 wherein during presentation and deliberations, it was observed that the site is within 10 Km radius of Van Vihar National Park (a Notified PA) from the Google image based on the co-ordinate provided by the PP. The clearance from NBWL is therefore requested. Committee after deliberations decided that PP should be asked to apply online for NBWL clearance and a copy of the application should be submitted to SEAC for further appraisal of the project along with the present legal status of case pending in NGT.

PP has submitted a resolution dated 16/10/2015 that approx. 65% of the project has been completed prior to the submission of application for EC. Thus committee also decided to carryout site visit as per the policy decision of 204<sup>th</sup> SEIAA meeting dated 30/05/2015 for



violation cases. SEIAA has forwarded the case with documents pertaining to credible action initiated against the PP for violation and credible action has been initiated against the PP as per MPPCB letter no. 4913 dated 01/09/2015.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Alok Mittal, Member SEAC visited the site on 09/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Vivek Chauhan and their consultant.

**Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 29,914.72 Sq.m. and the proposed built up area of the project is 44,591.5 Sq.m.
- The Project consists of multi story housing and Duplexes with all the basic amenities. The construction work for the project is already initiated and approximately 65% civil work has already been completed. As informed by the PP, 16 blocks are proposed out of which 08 are completed, 04 are incomplete (structure completed) and 04 blocks are yet to be constructed. Possession has been given in some for some of the flats. No construction activities were observed during site visit.
- Only one Entry/exit is exists at this point in time for the project. Main entry /exits are through 12 m wide road and internal circulation roads are of 12 m, 7.5 m and 6 m width. Some internal roads have already been constructed. Peripheral plantation is present along the project boundary with approx. 100 plants.
- As per the information provided PP, drainage pattern of the project is east of the project site towards the back side of the project. STP was found operational at the time of inspection.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 7.5 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are proposed at site.

Dedicated fire storage tanks of 25,000 liters capacity have been provided on the rooftop of the multistory buildings.

- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 86 lpcd. The water requirement for the residents will be sourced through the municipal supply. For treatment and recycling of treated water on site STP of capacity 270 KLD is installed and was found operational. STP tanks are installed below ground level and the machine room and pumps are installed on ground. Dual plumbing system has been provided for recycling of treated waste water.
- Area for a 48 hours MSW collection & storage space has already been demarcated near the EWS area.
- As per the information provided by PP, 03 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water out of which 02 have been constructed. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP, 3239.76 Sq.m of area is dedicated for the landscaping purposes. PP has provided peripheral plantation.
- PP also ensured to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.
- During site visit PP submitted the copy of online application filed for wild life clearance w.r.t Van Vihar National Park (a Notified PA) with proposal no. FP/MP/Others/611/2016.
- During site inspection it was observed that Kaliasot River is just about the project boundary on the northern side boundary near entry gate. PP has developed garden and landscape area towards this side. PP was asked to develop thick green belt so that 33 meter distance could be maintained from the river and no construction activity should be under taken in this area.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report and decided that the PP may be called

for the presentation in the subsequent meeting of SEAC.

**11. Case No. - 4954/2016 Shri Badri Prasad Patel, Proprietor, M/s Patel Builders, 63/6/1, SiddiBhawan, Chunna Bhatti, Bhopal (M.P.)-462016 Prior Environment Clearance for proposed Multi Residential Colony (SidhiSanskriti) Built-up Area-29821.24 sqmt., Total Plot Area-20600 sq.mt., at Survey no.-151, Vill.- Salaiya, Teh-Huzur, Distt.-Bhopal (M.P.) FoR- Building Construction.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14<sup>th</sup> September 2006 and amended to the date) and requires environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

Land use - The proposed project site earmarked for development of Group Housing is located at khasara no. 151 village salaiya, Nagar Pallika- Kolar, Tehsil-Huzur , Dist.-Bhopal. The proposed development has been planned in an area of 20600 SQM and the details are as follows:

Total Plot Area	=	20600 sqm
Net plot area	=	20306 sq m
Area for group housing	=	18072.34 sqm
Area for EWS	=	408.8 sqm
Club house Area	=	684 sqm
Area for shops	=	1509.2 sqm
Total Builtup Area	=	29821.24 sqm
Green Area	=30%	= 6180 sqm
Ground coverage	=30%	= 6180 sqm
Road Area	= 38 %	= 7828

Main Dwelling	=	252
EWS units	=	17
Total Units	=	269
Total Shops	=	60
Ecs Parking	=	239
Residents population	=	1345
No of floors	=	g+6 Max Height=21 m

No. of Blocks =7 main blocks and 1 EWS Block

S.No.	Item Description	Number of inhabitants/ Population	Per Capita water Requirement (L/D)	Total water Requirement KLD
A.	Flushing Water	1345	45	60.52
B	Domestic Water	1345	90	121
A+B	Total Water Demand			181.52

### Solid waste Generation:

Population/Area = 1345  
 Per capita solid waste generation (kg/day) = 0.6 807  
 Total solid waste generation (kg/day) =807

### The details of Water Requirement:

During the Operational and Constructional phase water will be supplied through the tankers and partly from Kohlar Nagar Nigam.

S. No.	Name	Water Demand (KLD)
1	Flushing@45LPD	60.5
2	Domestic @90LPD	121
3	Horticulture	30.9
	TOTAL	212.52

The Developer will provide sewage treatment plant based on FAB & MBBR process for treatment of sewage & sullage water. The treated effluent shall be of a quality suitable for flushing & horticulture/greenbelt.

The case was presented by the PP and their consultant in the 273<sup>rd</sup> SEAC meeting dated 01/04/2015 wherein after deliberations PP was asked to submit response on following issues:-

- Distance of project site from the Kaliasot River.
- Revised EMP with enhanced budgetary provisions.
- Detailed plantation scheme with financial outlay.
- Committee also proposes to carryout site visit to ascertain that there is no violation and proximity to Kaliasot River.

PP has submitted the reply of above issues raised during the 273<sup>rd</sup> SEAC meeting dated 01/04/2015 vide letter no.719 dated 27/04/2016 which was placed before the committee. The reply submitted by the PP was placed before the committee wherein committee decided to carryout site visit to ascertain that there is no violation as decided in the 273<sup>rd</sup> SEAC meeting dated 01/04/2016.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Alok Mittal, Member SEAC visited the site on 09/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Badri Prasad and their consultant.

**Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit that the total land area of the project is 20,600 Sq.m. and the proposed built up area of the project is 29821.24 Sq.m.
- The proposed project site earmarked for development of Group Housing is located at khasara no. 151 village salaiya, Nagar Pallika- Kolar, Tehsil-Huzur , Dist.-Bhopal. No development or construction activities were observed during the site visit and thus PP has not violated the EIA Notification, 2006.
- The site is appears to be >250 meters away from the Kaliasot River. The proposed site is a barren land and no trees exist within the project boundary except a couple of trees on the road side boundary of the project site.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report and decided that the PP may be called for the query reply presentation in the subsequent meeting of SEAC.

**12.Case No. 817/2012 - Shri Vijay Singh, Partner, M/s Dwarkadheesh Haveli Builders, Dwarkadham, Karond-Gandhi Nagar By Pass Road, Badwai, Distt. - Bhopal (M.P.) – 462018 - DWARKADHAM, Village - Badwai,Khasra No. 425/426/423, Village – Badwai, Tehsil –Huzur,, Distt. – Bhopal (M.P.) Total Land Area – 21.943 Ha.( 54 Acres), Total Built-up Area –1,27,739.45 Sq.m. Building Construction Project**

This is an area development / building construction project comprising total built-up area of more than 20,000 m<sup>2</sup>. The project is covered under the provisions of EIA notification and

mentioned as item no. 8 (a) hence requires prior EC before commencement of activity at site.

The case was earlier discussed in the 104<sup>th</sup> SEAC meeting dated 28/09/2012 and 135<sup>th</sup> SEAC meeting dated 04/06/2013 wherein the case was recommended for delisting as PP has not submitted the desired information. Later SEIAA also delisted the case. PP vide letter dated 16/05/2015 have submitted the desired information in SEIAA and the case was relisted in 211<sup>th</sup> SEIAA meeting dated 23/06/2015 and file was sent to SEAC. SEIAA vide their letter no. 10042/SEIAA/15 dated 31/12/2015 sent back the file to SEAC for site inspection and establish whether the case falls in the violation category or not.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Mohini Saxena, Member SEAC visited the site on 10/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Vijay Singh and their other partners.

#### **Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 21.943 ha and the proposed built up area of the project is 1,27,689.45 Sq.m.
- The Project consists of multi story housing with duplex and all the basic amenities. As informed by the PP, the project consists of 298 duplex, 650 flats, 33 shops and 223 EWS/LIG for weaker section. The construction work for the project is already initiated and approximately 40% civil work has already been completed. As informed by the PP, 200 duplex, 220 flats, 12 shops has been constructed. Possession has also been given in some duplexes. No construction activities were observed during site visit.
- Two entry/exit are provided in the project. Main entry exits are through 30 m wide road and internal circulation roads are of 14 m, 9 m and 7.5 m wide. Some internal roads have already been constructed on site. Excellent plantation is done by the PP in the project site. At present, peripheral plantation along the some part of project boundary and in proposed green area with approx. 400 plants were observed.
- As per the information provided PP, drainage pattern of the project is northern of the project site which is towards the back side of the project where STP is provided by the PP.

- For conflict free traffic and fire tender movement, arterial roads of 12 m, 6 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are proposed at site. Dedicated fire storage tanks of suitable capacity will be provided on the rooftop of the multistory buildings.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 90 lpcd. The water requirement for the residents is through municipal supply for which necessary permission has been obtained by the PP but at the time of inspection PP could not produce the copy of permission obtained for Municipal Corporation. However, PP provided the photocopy of amount paid to Municipal Corporation for water supply. For treatment and recycling of treated water on site STP of capacity 600 KLD is proposed and it was observed that the underground tanks has been constructed and some machineries are also procured by the PP for installation. PP was asked to provide dual plumbing system for recycling of treated waste water in the constructed blocks and in the proposed blocks also.
- Area for construction of a 48 hours MSW collection space has already been demarcated near the STP area. Two bun collection systems is in place where wet organic waste and other waste are collected separately and organic waste is converted in to manure in the project site.
- As per the information provided by PP rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP 20,207 Sq.m of area is dedicated for the landscaping purposes. At present, peripheral plantation along the some part of project boundary and in proposed green area (approx. 400 plants) is provided.
- PP was also instructed to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.
- During site inspection it was observed that so far PP has not provided solar lights in common area for which PP submitted that solar lights are proposed and during completion of the project same will be provided as suggested by the committee.

From the above it is clear that construction work for the project is already initiated and approximately 40% civil work has already been completed. As informed by the PP, approx. 200 duplexes, 220 flats and 12 shops have been constructed. PP during discussion submitted that earlier they have been informed that for this project EC is not applicable by the SEIAA vide letter no. 305 dated 27/07/2011 and later on they have again applied for the EC as same is applicable as the constructed area is > 20,000 sq. meter.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report (Annexure-1) and decided that the case may be sent to SEIAA for necessary action as per OM No. J-11013/41/2006-IA.II (I) dated 12/12/2012 as construction work for the project is already initiated and approximately 40% civil work has already been completed.

**13. Case No. 2190/2014- Mr. K.L. Moolani, MD, Bhojpal Builders & Developers Pvt. Ltd., Mez. Floor-3, R.K. Tower, 93-94, Zone-II, M.P. Nagar, Bhopal-462011 (MP)- proposed “Shri Krishna Heights” at Vill.-Barrai, Tehsil-Huzur, District- Bhopal (M.P.)**

This is an area development / building construction project comprising total built-up area of more than 20000 m<sup>2</sup>. The project is covered under the provisions of EIA notification and mentioned as item no. 8 (a) hence requires prior EC before commencement of activity at site. Being a case of violation, PP has submitted a resolution dated 16/09/2014 that approx. 36% construction has been done prior to the submission of application for EC for which the site inspection was carried out by sub-committee of SEAC on 15<sup>th</sup> & 16<sup>th</sup> April, 2015 and the report was submitted to SEAC and SEIAA.

This case was later on recommended for post facto EC in the 198<sup>th</sup> SEAC meeting dated 04/06/2015 with following special conditions laid by the sub-committee.

- Outcome of the legal case being registered against the PP for violation of the provisions of EIA Notification shall be binding on the part of PP.
- STP shall be provided with one grit removal unit after the equalization tank to remove inorganic impurities before entering the aeration tank.
- Green area development shall be taken up as per the proposal submitted by the PP before the committee.
- Mobile toilets shall be provided for labour during construction phase.
- Other conditions standard conditions shall be applicable.



SEIAA vide their letter no. 10120/SEIAA/16 dated 02/01/2016 sent back the file to SEAC for site inspection.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Mohini Saxena, Member SEAC visited the site on 10/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. K.L. Moolani and their consultant.

**Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 4.040ha and the proposed built up area of the project is 51,179.76 Sq.m.
- The Project consists of multi story housing with all the basic amenities. The construction work for the project is already initiated and approximately 35% civil work has already been completed. As informed by the PP, 20 blocks are proposed out of which 07 are completed, 01 are incomplete (plinth and GF level is achieved) and 12 blocks are yet to be constructed. No possession has been given in any of the flats. No construction activities were observed during site visit.
- Two entry/exit are proposed present in the project site however, at present one entry/exit is provided. Main entry exits are through 24 m wide road and internal circulation roads are of 12 m, 6 m and 6 m wide. Some internal roads have already been constructed on site. 240 plants of tree category are proposed in the project. At present, peripheral plantation along the project boundary with approx. 100 plants were observed.
- As per the information provided PP, drainage pattern of the project is east of the project site which is towards the back side of the project where STP is provided by the PP.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 6 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders. As per details provided by PP,

Fire fighting equipments, such as wet risers and hose reels are proposed at site. Dedicated fire storage tanks of suitable capacity will be provided on the rooftop of the multistory buildings.

- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 135 lpcd. The water requirement for the residents will be sourced through the municipal supply for which necessary permission has been obtained by the PP. For treatment and recycling of treated water on site STP of capacity 350 KLD is proposed and it was observed that the underground tanks has been constructed and some machineries are also procured by the PP for installation. Dual plumbing system has been provided for recycling of treated waste water in the constructed blocks and the same is proposed in the remaining blocks also.
- Area for construction of a 48 hours MSW collection space has already been demarcated near the STP area.
- As per the information provided by PP, 06 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP, 4868.63 Sq.m of area is dedicated for the landscaping purposes. PP has provided peripheral plantation.
- PP was also instructed to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.
- During site inspection it was observed that so far PP has not provided solar lights in common area for which PP submitted that solar lights are proposed and during completion of the project same will be provided as suggested by the committee.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report (Annexure-2) and decided that the case may be sent to SEIAA for necessary action.

**14. Case No. – 3120/2015 Mr. Sanjeev Agarwal CMD Sagar Plaza, 250, zone 2 M.P Nagar Bhopal M.P. - 462016 Prior E.C for approval of proposed Construction of Group housing Project “Sagar Eden Garden” at Khasra No.-447, 449/1, 447, 449/2, 447, 449/3, 449/1/1 Vill.-Bawadiya Kalan, Teh.-Huzur, District-Bhopal (M.P.) Total Project Area-10687.51 sq.m. Total Build up Area-22850 sq.m.For- For-Building Construction Consultant: Env Development Assistance Syatem Pvt. Ltd, Lucknow.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14<sup>th</sup> September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

**Site Specific details**

Particulars	Details
Location	Construction of proposed Group Housing Project “Sagar Eden Garden” at Khasra No. 447, 449/1, 447,449/2, 447,449/3, 449/1/1 at Village- Bawadiya kalan, Tehsil- Huzur, District- Bhopal, Madhya Pradesh, India
Type of Project	Building and large construction project
Category	B, Type- 8(a)
Elevation (m)	466 m above mean sea level
Latitude and Longitude (mentioned in Fig 4)	Point 1 - 23°10'35.80"N; 77°27'45.17"E Point 2 - 23°10'34.91"N; 77°27'44.05"E Point 3 - 23°10'34.51"N ; 77°27'42.84"E Point 4 - 23°10'33.43"N; 77°27'43.69"E Point 5 - 23°10'33.96"N ; 77°27'44.71"E Point 6 - 23°10'32.64"N ; 77°27'46.39"E Point 7 - 23°10'33.84"N ; 77°27'48.87"E
Current status of land	Residential Landuse as per BDA Master Plan, 2005
Type of facilities	Housing with basic amenities
Nearest Highway	Bhojpur road (NH-12) (E) Bhopal Bypass road (E)
Nearest railway station	Misrod Railway is 1 km (SE) Habibganj Railway Station is 5 km (NE)
Nearest airport	Raja Bhoj International Airport, Bhopal – 21 km (NW)

Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Van Vihar National Park is 10 km (NW)
Rivers/Lakes	Kaliasot River – 2.5 Km (W), Shahpura lake – 5.0 km (NW)
Seismic zone	Seismic Zone-II as per BIS 2002 map.
Defense installations	---

### Area Statement

S. No	Items	Details
1.	<b>Type of Building</b>	<b>Residential</b>
2.	Total Land Area	10,687.51 sq mt
3.	Area Under 24 m wide road widening	1,389.48 sq mt
4.	Net Planning Area	9,298.03 sq mt
5.	<b>Ground Coverage</b>	Permissible: 2,789.41 sq mt (30%) Proposed: 2,789 sq mt (30%)
6.	<b>FAR</b>	<b>Permissible: 15,096.23 sqm</b> (Permissible FAR for Housing = 1.25 x 9,298.03 = 11,622.53 sqm (A) Additional FAR of area under road widening (As per Rule 61 of MPBVN-2012) = 1.25 x 1,389.48 x 2 = 3,473.70 sqm (B) Total (A + B) = 15,096.23 sqm) <b>Proposed: 15,095 sqm</b>
7.	Total Basement area	<b>Total basement area – 3,787.33 sqmt</b>
8.	Total Stilt area	2,789.49 sqm
9.	Area open for services	92.90 sqm
10.	Informal sector	1,085 sqm
11.	<b>Built up area (as per MoEF)</b>	<b>22,850 sq mt</b> (15,095 sqm FAR + 2,789.49 sqm stilt area +3,787.33 sqm basement area + 1,085 sqm builtup area of informal sector +92.90 sqm service area)
12.	Total open area	6,508.53 sq mt
13.	Internal roads and Paved area	5,578.7sqm
14.	Green Area	Proposed: 929.8 sq mt (10% of plot area)
15.	No. of Trees (Required-1 Tree/100 sqm of	Required: 65 Trees Proposed: 100 Trees

	open area)	
16.	Number of floors	S+6 floors
17.	Parking facilities	<b>Required Parking: 166 vehicle space</b> <b>Provided Parking: 203 vehicle space</b>
18.	Power requirement & source	750 kVA Source : Madhya Pradesh KshetraVidyutVitran Company Limited
19.	<b>Power Backup</b>	1 DG set of 125 kVA
20.	<b>Water Requirement and Source</b>	<b>Fresh Water Demand : 103 KLD</b> <b>Recycled Water: 72 KLD</b> <b>Total Water Demand : 175 KLD</b> <b>Source: Municipal supply</b>
21.	<b>Total Dwelling Units</b>	Residential: 192 LIG/EWS – 33
22.	<b>Estimated Population (fixed + floating)</b>	Residential – 960 (@5 person per unit) LIG- 165(@5 person per unit) Visitors – 110 Staff-55
23.	<b>Height of the Building</b>	Basement + Stilt + 6 floors (21m approx)

This is a residential project comprising building construction for with Total Project Area-10687.51 sq.m. and Total Build up Area-22850 sq.m. The project is proposed Khasra No. – 447, 449/1, 447, 449/2, 447, 449/3, 449/1/1 Vill.-Bawadiya Kalan, Teh.-Huzur, District-Bhopal (M.P.) By virtue of type and size of project it falls under Category B-2, 8(a) in the EIA Notification hence requires prior EC from SEIAA.

The case was discussed in the 269<sup>th</sup> SEAC meeting dated 29/02/2016 wherein it was recorded that a submission/violation resolution from PP has been received stating that construction activities have already been initiated at site. Thus it is a clear case of violation. SEIAA has forwarded the case with documents pertaining to credible action initiated against the PP for violation. It was decided to visit the site before appraisal of the case, as the same has been directed by SEIAA for violation cases as per their policy decision in 204<sup>th</sup> meeting dated 30/05/2015.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Mohini Saxena, Member SEAC visited the site on 10/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Neeraj kamboj and their consultant.

**Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 10,687.5 and the proposed built up area of the project is 22,850 Sq.m.
- The Project consists of multi story group housing with all the basic amenities. The construction work for the project is already initiated and approximately 95% civil work has already been completed. No possession has been given in any of the flats. No construction activities were observed during site visit.
- Two entry/exit are proposed present in the project site however, at present one entry/exit is provided. Main entry exits are through 24 m wide road and internal circulation roads are of 12 m, 7.5 m and 6 m wide. All internal roads have been constructed.
- As per the information provided PP, drainage pattern of the project is south east of the project site which is towards the back side of the project where STP is provided by the PP.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 6 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are proposed at site. Dedicated fire storage tanks of suitable capacity will be provided on the rooftop of the multistory buildings.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 135 lpcd. The water requirement for the residents will be sourced through the municipal supply for which necessary permission has been obtained by the PP. For treatment and recycling of treated water on site STP of capacity 180 KLD is proposed and it was observed that the underground tanks has been constructed and some machineries are also installed by the PP. Dual plumbing system has been provided for recycling of treated waste water in one of the constructed blocks and the same is proposed in the remaining blocks as informed by the PP.

- Area for construction of a 48 hours MSW collection space has already been demarcated near the STP area.
- As per the information provided by PP, 05 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP 929.80 Sq.m of area is dedicated for the landscaping purposes. PP has provided peripheral plantation.
- PP was also instructed to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report and decided that the PP may be called for presentation for appraisal by the committee in the up-coming meetings of SEAC.

**15. Case No. – 1721/2013 M/s Agrawal Builders & Colonizers Co. through Partner Shri Sudhir Kumar Agrawal, E-4/231, Arera Colony, Bhopal, (M.P.) – 462016 Residential Project Proposed by M/s Agrawal Builders & Colonizers Co. through Mrs. Archana Agrawal W/o Sh. Sudhir Kumar Agrawal at Khasra No. – 14/1/3, 182/14/3, 14/1/2/5, Patwari Halka No.- 20, Village – Hathaikheda, Tehsil – Huzur, Distt. – Bhopal (M.P.)**

This is a building construction project comprising total plot area of 3.248 ha and total built-up area of 39631.25 sq mt for residential development. The project falls under category 8 (A) of the Schedule of EIA Notification, hence requires prior EC. The case was presented before the committee by the PP and his consultant. Case was discussed 142<sup>nd</sup> SEAC Meeting dt. 11/09/13.

The case was discussed in the 169<sup>th</sup> SEAC meeting dated 27/01/2015 wherein it is recorded that response to the above queries has been submitted by the PP. The submissions made by the PP were found to be satisfactory and acceptable. Hence based on the submissions made by the Pp and the presentations made the case was recommended for grant of EC subject to the following special conditions:

1. Fresh water requirement in the project shall not exceed 217 KLD.

2. Compliance of the outcome of the legal case against the PP for violation shall be binding on part of PP.
3. Area under green cover shall not be less than 3240 sq mt.
4. Green belt consisting two row plantations around the project boundary shall be developed along with other activities of the project.
5. Necessary consents under the provision of Water / Air Acts shall be obtained from MPPCB. The sewage treatment system shall be installed as per the directions of MPPCB.
6. Project proponent shall ensure smooth running and maintenance of the STP for project life. An affidavit in this regard shall be submitted to MPPCB.
7. Appropriate Escrow fund shall be created by the PP for execution of EMP as proposed in the project.

SEIAAA vide their letter no. 10101/SEIAA/16 dated 01/01/2016 sent the file to SEAC to carryout site visit.

As decided, Shri K. P. Nyati, Member SEAC and Dr. R. Maheshwari, Member SEAC visited the site on 11/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Sunil K Chandel and their consultant.

#### **Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 32480 Sq.m. and the proposed built up area of the project is 39631.25 Sq.m.
- The Project consists of group housing and Duplexes with all the basic amenities. The construction work for the project is already initiated. Some of the civil work has already been completed. Party occupancy has been given in the project. Construction status for different residential blocks is different. No construction activities were observed during site visit.
- Two numbers of Entry/exit are present in the project site. Main entry exits are through 15 m wide coordination road. Second entry in the south is through 24 m master plan road. All the roads for internal circulation are 9 m, 7.5 m and 6 m wide. Some internal



roads have already been constructed on site. Peripheral plantation is present along the project boundary with no. of approx. 500 plants.

- As per the information provided PP, drainage pattern of the project is south east of the project site towards the entry of the project. The position of STP was finalized, keeping in view the natural drainage pattern of the project site.
- There are 63 duplexes and 416 flats are proposed in the project including LIG and EWS. Civil constructions of some duplexes and tower 04, 05 & 06 have been completed and possession has been given to in 50 flats/duplexes. Rests are in the different stages of construction. No construction activities were observed during site visit
- For conflict free traffic and fire tender movement, arterial roads of 9m, 7.5m and 06 m are proposed. Clear circular roadway has been provided along the periphery of the project. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are provided / proposed at site.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @135 lpcd. The water requirement for the residents will be sourced through the municipal supply during the operation phase. For treatment and recycling of treated water on site STP of capacity 325 KLD is proposed. STP was found operation during site visit. STP tanks are installed below ground level and the machine room and pumps are installed on ground.
- Area for construction of a 48 hours MSW collection space has already been provided near the tower no. 08.
- As per the information provided by PP, 11 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. 06 of the rain water harvesting structures is complete. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP, 7697.36 Sq.m of area is dedicated for the landscaping purposes. Peripheral plantation is present along the project boundary with no. of approx. 500 plants.

- PP also ensured to install energy saving appliances such as LED, CFL lightings in common areas.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report (Annexure-3) and decided that the case may be sent to SEIAA for necessary action.

**16. Case No. – 2687/2015 Mr. Vipin Chouhan, Partner, E-2/21, Habibganj Railway Station, Arera Colony, Bhopal-462016 (M.P.) Prior Environment Clearance for Proposed Residential Project "Ultimate Sky Villas" at Vill.-Bawadia Kalan, Teh.-Huzur, District-Bhopal (M.P.) Total Land Area- 26980.00 Sq. mt. (2.6980 Ha.), Total Built up Area- 45267 Sq. mt.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14<sup>th</sup> September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

The proposed Residential project is planned in a plot measuring 26980.0 Sq.m. (2.69 Hect.) at Village Bawadia kalan, Tehsil Huzur, Dist.- Bhopal (MP) and the salient features are as follows:

Total Plot Area	: 26980.0 Sq.mt
Proposed Built-Up Area	: 45267.82 Sq.mt
Land Use	: Residential
Building Height	: Basement + Stilt + 30.0 m. Maximum
ROW	: 24.0 m. Wide Road Proposed.
Road width /MOS	: 12/7.5/7.5 M.
Total No. of Blocks	: 3 Nos. (Block A – B+30 M., Block B – S+24M. Block C S+18M.)
Total No. of Bungalows	: 29 Nos.
Total No. of Flats 3/4/5 BHK	: 187 Nos.
Total No. of LIG	: 13 Nos.

Total No. of EWS	: 20 Nos.
Total No. of Convenient Shops	: 27 Nos.
Club House	: 1 Nos.
Total Water Demand	: 185 KLD
Municipal Water Supply	: 185 KLD
STP Capacity	: 128 KLD on 100% Load & 150
KLD Proposed	
Solid Waste Generation	: 0.459 TPD
Power Demand	: 1300 KW
Back Up Source	: 250 KVA (D.G. Set – 2 x 125 KVA)
Railway Station	: Habibganj Railway Station – 8.5 Km away from site
Air Port	: Bhopal Airport– 25.5 Km away from site.

**AREA STATEMENT**

<b>Ultimate Sky Villas</b>		
Total Plot Area	26,980.00	Sq.mt.
Net Planning Area	22,294.53	Sq.mt.
<b>Proposed Built Up Area</b>		
Flat	23,530.23	Sq.mt.
Bungalow	16,051.60	Sq.mt.
EWS	500.00	Sq.mt.
LIG	468.00	Sq.mt.
Club House	400.00	Sq.mt.
Parking Area	4317.99	Sq.mt.
<b>Total Built-up Area</b>	<b>45267.82</b>	<b>Sq.mt.</b>

Case was presented by PP and their consultant in the 274<sup>th</sup> SEAC meeting dated 12/04/2016. During presentation, it was observed that Van Vihar is at a distance of approx. 7.2 kms (a Notified PA) Clearance from NBWL is therefore needed. PP has submitted the copy of online application made for wild life clearance with proposal no. FP/MP/OTHERS/634/2016 and date of submission is 10/03/2016. Committee after presentation and deliberations asked PP to submit clarification/information on following issues raised during discussion:-

1. Water demand calculations and other details are to be revised and recalculated on the basis of 05 persons/family.
2. It was observed as per the approved layout map that two master plan roads are passing through the site bifurcating this site into three parts and PP has proposed only one STP. Thus PP was asked to propose at least two/three STPs to avoid interlinking as STP's drains passing through the roads. Locations of proposed STPs should also be shown on layout maps.
3. Similarly, three fresh water storage sumps are to be provided by the PP for which a written commitment should be submitted along with their locations on layout map.
4. During presentation PP submitted that solar water heating systems should be provided for which a written commitment should be submitted.
5. Detailed plantation scheme & number of trees proposed with financial allocations.

During presentation PP informed that no construction is taken place on site except sample flats which are temporary and same will be dismantled later for which committee decided to carryout site visit to ascertain the status of construction.

As decided, Shri K. P. Nyati, Member SEAC and Dr. R. Maheshwari, Member SEAC visited the site on 11/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Vipin Chauhan and their consultant.

#### **Major Observations during the Site Visit:**

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 2.698 ha and the proposed built up area of the project is 45,267.82 Sq.m.
- The Project consists of multi story housing & Duplex with all the basic amenities. The construction work for the project has yet not commenced and no on-going construction activities were observed by the sub-committee during site visit. Only a sample flat which is temporary structure and a site office is developed by the PP.
- Two entry/exit are proposed present in the project site however, at present one entry/exit is provided. Main entry exits are through 24 m wide road and internal circulation roads are of 12 m, 7.5 m and 7.5 m wide.

- As per the information provided PP, drainage pattern of the project is west of the project site which is towards the back side of the project where STP is provided by the PP.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 7.5 m and 7.5 m are provided / proposed in the project. Circular roadway has been proposed along the periphery of the project for movement of fire tenders. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are proposed at site. Dedicated fire storage tanks of suitable capacity will be provided on the rooftop of the multistory buildings.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 135 lpcd. The water requirement for the residents will be sourced through the municipal supply for which necessary permission has been obtained by the PP. For treatment and recycling of treated water on site STP of capacity 200 KLD is proposed. Dual plumbing system has also been proposed for recycling of treated waste water.
- Area for construction of a 48 hours MSW collection space has already been demarcated near the STP area.
- As per the information provided by PP, 03 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP, 3430.02 Sq.m of area is dedicated for the landscaping purposes.
- PP was also instructed to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report and it was observed by the committee that as per the report construction work for the project has yet not commenced and no on-going construction activities were observed by the sub-committee during site visit. Only a sample flat which is temporary structure and a site office is developed by the PP.

PP has submitted the reply of above issues raised during the 274<sup>th</sup> SEAC meeting dated 12/04/2016 vide letter dated 14/05/2016 which was placed before the committee.

The submissions made by the PP were found satisfactory and acceptable and hence the committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 185 KLD.
2. The excess treated water will be used for watering of municipal road side green area or efforts shall be made to supply this water to the construction sites for use in the construction works.
3. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 233 no of trees will be planned in residential area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
4. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
5. PP has applied to CPA for intercrossing the road for the service line for water supply & sewage and in the anticipation of approval has proposed one STP. If CPA denied the approval for intercrossing the road, PP has to provide two STP's of suitable capacity.
6. Power back-up for un-interrupted operations of STP shall be ensured.
7. CFL/LED should be preferred over of tube lights.
8. Fund should be exclusively earmarked for the implementation of EMP.
9. MSW storage area should have 48 hours storage capacity.
10. Dual plumbing should be provided.
11. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
12. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
13. PP will obtain other necessary clearances/NOC from concerned authorities.
14. The commitments / plans submitted by PP vide their letter dated 14/05/2016 should be complied with.
15. The grant of Environmental Clearance should be subject to necessary Wild Life Clearance from NBWL to be obtained by PP.

**17. Case No. – 1737/2013 M/s Koshalya Devi Builders and Developers through partner Shri Balwant Singh, 51, Premier House, Zone – II, M.P. Nagar, Bhopal (M.P.) – 462011 Residential Project Plotted development Owner of land: Shri Narendra Singh And Shri**

**Santosh Singh, Developers: Koshalya Devi Builders and Developers at Village – Semra Khasra No. – 141, 142/1, 215/1, Village – Hinotia Kacchchian Khasra No. – 35, 36-94/37/2ka, 41/2/2, 42/1/2ka, 47, 44 and 45-46/1, Tehsil – Huzur, Distt. – Bhopal (M.P.) Total Land Area – 97518.90 Sq.Mt ., Plotted development with permissible Built Up Area – 81928.47 sq m. SAY82000.00 SQM Proposed Built up Area – 19680 Sq.Mt.,**

This is a case of building construction comprising total plot area of **97,518.90 Sq.Mt** and total built-up area of **81,928.47 sq m**. The project is covered under EIA notification and mentioned at SN 8 (a) of the Schedule of the said notification. Hence requires prior EC from SEIAA before commencement of any activity at site. The project file with documents was forwarded by SEIAA to SEAC for appraisal and recommendations.

The case was discussed in the 145<sup>th</sup> SEAC meeting dated 07/11/2013 wherein it was informed by the project proponent that the construction activity has already been started without obtaining prior EC. Thus, this is a clear case of violation of EIA Notification. Committee decided to return the case to SEIAA for taking necessary credible action and if need be, issue of directions for immediate suspension of construction at existing level, in light of the MoEF O.M. no J-110131/41/2006 – IA- II (I) dated 12/12/2012 and dated 27/06/2013

SEIAA vide their letter no. 10124/SEIAA/16 dated 02/01/2016 sent back the file to SEAC for site inspection.

As decided, Shri K. P. Nyati, Member SEAC and Dr. R. Maheshwari, Member SEAC visited the site on 11/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Balwant Singh and their consultant.

### **Major Observations during the Site Visit:**

- It was informed by the PP present at the site during the site visit of the team that the total land area of the project is **97,518.90 Sq.m**. Plotted developments with permissible Built Up Area – **81,928.47 sq m**. and Proposed Built up Area – **19,680 Sq.m**. as per the permission given by municipal corporation.
- The Project consists of plots, multi story housing & duplex with all the basic amenities. The construction work for the project is already initiated and approximately **35%** civil work has already been completed if proposed Built up Area is taken as

19,680 Sq.m. Otherwise, approximately 09% civil work has already been completed if proposed Built up Area is taken as 81,928 Sq.m.(which is permissible built-up area).

- As informed by the PP, 307 are plots, 83 EWS and 172 apartments are proposed out of which development has been started on the 47 duplex. Some possession has been given in duplex. No construction activities were observed during site visit.
- Two entry/exit are proposed present in the project site however, at present one entry/exit is provided. Main entry exits are through 12 m wide road and internal circulation roads are of 12 m, 6 m and 6 m wide. Some internal roads have already been constructed on site. At present, peripheral plantation along the project boundary with approx. 90 plants were observed.
- As per the information provided PP, drainage pattern of the project is south-west of the project site which is towards the back side of the project where STP is provided by the PP.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 6 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 135 lpcd. The water requirement for the residents will be sourced through the municipal supply for which necessary permission has been obtained by the PP. For treatment and recycling of treated water two on site STP of capacity 250 & 100 KLD respectively are proposed and it was observed that the underground tanks has been constructed. Dual plumbing system is proposed in the multi storied building as informed by the PP.
- Area for construction of a 48 hours MSW collection space has already been demarcated near the STP area.
- As per the information provided by PP, 07 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.



- As details provided by PP, 8361.98 Sq.m of area is dedicated for the landscaping purposes. PP has provided plantation on the road side.
- PP was also instructed to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report (Annexure-5) and decided that the case may be sent to SEIAA for necessary action.

[Dr. R. B. Lal]  
Chairman

[K. P. Nyati]  
Member

[Dr. Alok Mittal]  
Member

[Dr. R. Maheshwari]  
Member

[Dr. Mohini Saxena]  
Member

[Dr. R. B. Lal]  
Chairman