The 270th meeting of the State Expert Appraisal Committee (SEAC) was held on 01st March, 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, U. R. Singh, Member
3. Dr. S. K. Iyer, Member
4. Dr. Mohini Saxena, Member
5. Dr. Alok Mittal, Member
6. Shri Manohar K. Joshi, Member
7. Shri Rameshwar, Member
8. 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. - 704/2012 Dr. Mrs. Neeta Dang, Director, M/s Impress Chemicals Pvt.Ltd., RH-24, Scheme No. 54, Vijay Nagar, Indore – (-M.P.) – 452010 *Proposed Drug Manufacturing Unit at Plot No.332 Sector -1, Industrial Area, Pithampur, Teh. – Dhar,Distt. – Dhar (M.P.) ,ToR Issued letter no. 401 dt. 04/08/12 Revised ToR Issued letter no. 136 dt. 22/09/14*

The project pertains to Proposed Drug Manufacturing Unit and is mentioned as item 5(f) in the schedule of the EIA Notification. The project was issued TOR by SEAC vide letter no. 401 dated 04/082012 followed by a revised TOR vide letter no. 136 dated 22/09/2014. EIA submitted by the PP was forwarded by the SEIAA to SEAC for appraisal and necessary recommendations.

Location

- Village: Plot No. 332, Notified Pithampur Industrial Growth Centre, Pithampur village
- Tehsil & District : Dhar (M.P)

Products proposed

SN	Name of Product	Proposed Capacity
1	Fluconazole	1 TPM

2	Tenofovir Disoproxil Fumarate	1 TPM
3	Mefanamic Acid	10 TPM
4	Triprolidine Hydrochloride	1.5 TPM
5	Glucoseamine HCL + Sulphate	5 TPM
6	Glemipride	1 TPM

Particulars	**Description**
Cost of the project	Rs. 10 crores
Total Proposed area	0.23 acres (926 m^2)
Water requirement	2 m^3/day, Source - Audyogik Kendra Vikas Nigam (AKVN), Waste Water Generation- Fully recycled in process, Mode of disposal - Zero Discharge
Power requirement	48 KW , Source - Madhya Pradesh Electricity Board (MPSEB), DG 60 KVA is proposed
Manpower requirement	50

Feature	**Details**
Village	Pithampur (1.0 km, SW)
Tehsil & District	Dhar
Geographical location	Latitude 22°37ô06.05"N , Latitude 75°41ô18.96"E

Elevation	560 m
Nearest Railway Station	Mhow (15 Km, SE)
Present Land-use	Notified Industrial Area
Nearest Airport	Indore (35 Km, NE)
Nearest Highway	NH-59 (6km, N)
Nearest Town	Pithampur (1.0 km, SW)
Nearest Water Body	Chambal (06 kms.)
District headquarters	Dhar (38 km, W)
Seismic Zone	Zone II as per the 2002 Bureau of Indian Standards (BIS)
Forest land	No forest reported with in 10 km radius of around the site.
Notified Eco ï sensitive area	None in 15 km radius

Raw Materials

Raw Material	**Qty/month**	**Raw Material**	**Qty/month**
1.3 DFB	50 kg	Hyflo Supercel	44 kg
MDC	75 lit	Sodium hydroxide Lye (50%w/w)	430 lit
Alu. Chloride	63.5 kg	Sodium Sulphate (Exsiccated)	279 kg
C.A.C.	55 kg	Sodium Chloride	1497 kg

Ice	500kg	IPA	5000 kg
HCl	20 kg	Methyl Acetone Phenone	250 kg
CAN	300 lit	Para-formaldehyde	420 kg
4ATE	35 kg	Toulene	4200 kg
Sodium Nitrate	13 kg	N-Butyl Lithium	200 kg
Ammonia Water	500 lit	2 Bromo Pyridine	250 kg
9[2-Phosphono Methoxy)Propyl]adenine	1 kg	HCl	1000 kg
Cyclophe	2.22 lit	Chitin	8000 kg
N-Methyl-pyrrolidone	3.36 lit	HCL	1000 kg
TEA	0.1 kg	Methanol	50 kg
Chloro methyl isopropyl carbonate	2.27	Toluene	1000 kg
Ethyl Acetate	3.54 lit	EPO	1000 kg
Cyclohexane	0.91 lit	Isocyanides	100 kg
IPA	3.86 lit	Hexane	300 kg
Fumeric Acid	0.36 kg	DIPE	300 kg
O-Chloro Benzoic Acid	1045 kg	MDC	300 kg

Potassium Carbonate	498 kg	CS Acid	50 kg
Isopropyl Alcohol (IPA)	13230 lit	Ethyl Acetate	20 kg
2,3-Dimethyl Aniline (O-Xylidine)	800 kg	Liquid NH3	1000 kg
Cupric Acetate Monohydrate, Tech	150 kg	Acetone	500 kg
Concentrated HCl	900 lit	TMCHI	100 kg
Methanol	480 lit	K2CO3	50 kg
Activated Carbon	180 kg		

Air Pollution Control Measures:

- Fugitive emission from the solvent storage area will be controlled by effective ventilation system.
- Storage and transport of material will be in a closed system and transport of solvent shall be as per safety norms.
- All internal roads will be black topped / concrete
- Greenbelt of 33% (0.08 acres/306 sq m) along the plant boundary and along the internal roads
- Ambient air quality monitoring in and around the plant area
- All solvent transfer will be in closed pipeline hence there will be no open handling leading to fugitive emission and it will prevent odour nuisance
- All reactor vents are with double stage vent condenser which prevents fugitive emission into atmosphere and prevents odour nuisance

- All plants are cl0sed ventilated plants so it prevents odour nuisance
- All solvent having low flash points are provided with Nitrogen blanketing which prevents fugitive emissions of solvent vapours which prevents odour nuisance
- Provision of scrubbing system for reactor vents and stripping of effluent streams before treatment will result into effective odour control in the area
- Provision of greenbelt around the premier of the industry also helps in controlling fugitive emissions

Water Pollution Control Measures

- In order to conserve water and minimize the makeup water requirement, it is proposed to adopt re-circulating systems for equipment cooling.
- In re-circulating system same water re-circulates again and again and some make up water is added for evaporation losses.
- The industrial effluent of 0.2 KL/day shall be treated in ETP then the RO and finally treated water is recycled in the process.
- It is proposed to have an effluent treatment plant of 10 KL/day and a storage of 20 KL effluent in a fiber glass lined tank, where caustic & acidic effluents will be collected and allowed to neutralize.
- It is proposed to fully utilize the treated water in the process. Zero discharge concepts will be implemented.
- The outflow from toilets of the plant buildings shall be led to various septic tanks in respective areas through separate drains. The run-off from them will be connected to soak pits/ dispersion trenches.
- A well planned storm water drainage network will be developed within the plant site
- Rainwater harvesting measures will be implemented
- Å Periodic monitoring of water for its quality.

Solvent Management & Recovery Plan

- Waste-minimisation, recycle/reuse/recover techniques
- Spent solvents are proposed for solvent recovery through in-house solvent recovery unit.
- Reactor will be connected to chilled brine condenser system
- Reactor and solvent handling pump will have mechanical seals to prevent leakages.
- The condensers will be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
- Solvents will be stored in a separate space specified with all safety measures.

- Proper earthling will be provided in all the electrical equipment wherever solvent handling is done.
- Entire plant where solvents are used will be flame proof. The solvent storage tanks will be provided with breather valve to prevent losses.

Noise Level

- Noise from compressor, fans, centrifugal pumps, electrical motors etc. will be kept in control so that the ambient noise level shall not exceed 75 dB(A) during day time & 70 dB(A) during night time.
- The insulation provided for prevention of loss of heat and personnel safety will also act as noise reducers;
- Layouts, equipment foundations and structures will be designed keeping the requirement of noise abatement in view;
- Necessary enclosures will also be provided on the working platforms/areas to provide local protection in high noise level areas;
- All equipment will be kept in a well maintained condition with proper lubrication and housekeeping to avoid excessive noise generation;
- Noise pollution control measures will be provided in respective departments by way of providing silencers, soundproof cubicles/ covers and proper selection of less noise machinery.
- Development of greenbelt to attenuate noise levels, and Personal protection equipment to employees.

Solid Waste & its proposed management

Sr.No.	Name of Waste	Category	Quantity	Mode of Disposal
1	Used oil / Waste oil	5.1 / 5.2	Nil	'
2	Process Waste	28.1	5 kg per month	Disposal to TSDF
3	Spent Carbon	28.2	3 kg per month	Disposal to TSDF
4	Date expired specification product	28.3 / 28.4	nil	'

5	Spent Solvent / Spent ML	28.5 / 20.2	5 tons per month	Disposal to TSDF or to authorized recyclers
6	Discarded Containers / Barrels / Bags / Liners	33.3	20-30	Decontamination and sale
7	ETP Sludge	34.3	300 kg per month	Disposal to TSDF
8	Salts from multi effect evaporators	36.2	nil	'
9	Distillation Residue	20.3 /36.4	nil	'
10	Spent Catalyst	35.2	nil	'
11	Chemical residue from decontamination of chemical drums	33.1	nil	'
12	Spent resin	34.2	nil	'
13	Filter media and molecular sieve	35.1	3 meter square per month	Disposal to TSDF

- The hazardous waste likely to be generated from all possible sources is proposed to be collected and transported to (CHW-TSDF) waste disposal site.
- The solid waste is proposed to be collected in synthetic carboys and delivered to Ramky ï solid waste handling facility, formal membership will be taken after grant of consent to operate
- All hazardous chemicals/raw materials are proposed to be handled as per the relevant rules ñManufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989ò (MSIHC Rules, 1989, as amended) and Hazardous Waste

(Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date.

Proposed Pollution Control Measures

Air pollution Control System, Wastewater Treatment System, Solid Waste Management and Tree Plantation has been proposed along with installation of Rain water harvesting project.

The case was discussed in 192ed SEAC meeting dated 08/05/2015 wherein after deliberation and presentation PP was asked to submit response for the following queries along with the supporting documents -

- DIC Registration for changed Products / EC Valid if all the proposed products are registered with DIC.
- Inter-locking should be provided with reactions and pollution control facility.
- Lay-out of plant showing green belt / plantation area in 33% of plot area.
- Design & layout of ETP as per suggested modification by the committee.
- Being Chemical unit ï Rain ï water harvesting for GW recharge shall not be allowed.
- MSDS for all raw materials, intermediate and finished products to be furnished as per TOR.
- CSR activities ï details with budget.
- Method of storage of Hazardous wastes.
- Point no. 16, 17, 19, 20, 21, 24, 27, 33, 36, 54, 56 & 90 of TOR to be elaborated.
- Water-balance has to be revised in view of the discrepancy in the data used in the report.

PP has submitted the response to the above queries vides letter dated 06/10/15 which was placed before the committee in 255th SEAC meeting dated 02/01/2016. After deliberations committee decided that PP may be called for the query reply presentation in forthcoming meetings of SEAC.

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. However, PP vide letter dated 29/02/2016 has requested for rescheduling of the case on 02/03/2016 but committee decided that PP may be asked to present their case in the forthcoming meetings of SEAC.

2. **Case no. 687/2012 - Shri M.G. Chobey Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – 462-003** ***Runj Medium Irrigation Project, Panna (M.P.) at Village - Viashramgunj, Teh-Ajaygarh, Distt-Panna-(M.P.) Catchment Area- 226.17 Sq.km., Gross Storage Capacity – 72.04 MCM, Live Storage Capacity – 64.70 MCM, Gross Command Area – 13795 ha. Cultivable Command Area – 9800. ha., Designed Irrigation Area – 12550 ha. at Village – Pandheria, Tehsil – Shanagar, Distt. – Panna (M.P.)***

Runj Medium Irrigation Project, Panna (M.P.) at Village - Viashramgunj, Teh-Ajaygarh, Distt-Panna-(M.P.) Catchment Area- 226.17 Sq.km., Gross Storage Capacity ï 72.04 MCM, Live Storage Capacity ï 64.70 MCM, Gross Command Area ï 13795 ha. Cultivable Command Area ï 9800. ha., Designed Irrigation Area ï 12550 ha. at Village ï Pandheria, Tehsil ï Shanagar, Distt. ï Panna (M.P.) falls under category 1(c) [B-1] of the schedule of EIA Notification and requires prior EC under the provisions of said notification. The application of the PP was forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project and ToR was issued vide letter no 214- dated 08/05/2012. EIA submitted by the PP was forwarded by SEIAA to SEAC for appraisal and necessary recommendation.

The project envisages construction of a dam having total length of 1182 M with max height of 35.48M. Out of this, 1026.75 M is earthen portion and 154.75M long concrete Central spillway. Total live storage is 64.70 M. Cum. Total land 482.10 Ha. will be submerged (Forest land ï 154.91 ha, Revenue land ï 87 Ha. and Private Land ï 240.19 Ha) which is about 5% of total proposed CCA of 9800 Ha. Stage-I and Stage-II forest clearance has been awaited from Ministry of Forest & Environmental Department of Govt. of India. Registration fee deposited in forest department. Compensation of private land after passing award shall be paid to the cultivators. Dhara 04/06 has been published Revenue land under submergence has been transferred to the Water Resources Department. The complete canal system is about 41.94 Kms. In length and will be lined to achieve the optimum utilization of water. 7.344 M. Cum water is exclusively earmarked for drinking purposes. One village is reported to fall under submergence and as such R/R Plan is submitted to be Govt. of M.P.

The proposed Runj Medium Irrigation Scheme is located in Ajaygarh tehsil of district Panna, Madhya Pradesh. The proposed scheme consists of 1182 m long composite dam across river Runj, which is a tributary of Bhagain river that ultimately confluences with the Yamuna. The total area 226.17 Sq.Km has been estimated for catchment area for this proposed dam. The proposed reservoir of dam will spread water at FRL in 482.10 hain which 327.19 Ha falls under revenue submergence area while 154.91 ha comes under forest submergence area. The entire submergence area is limited to village- Vishramganj only. The storage dam shall comprise of 124.75 m long overflow section comprising of 8 bays of size 12.5 m x 5.75 m to pass a PMF of 3382.62 cumec. Non-overflow section with maximum height 43.35 m above foundation level in 15 m length on either side of the spillway has been proposed. On left and right of the non-overflow section earthen dam of maximum height 34.43 m has been conceived in 855 and 172 m respectively. A canal sluice at RD 120 of left flank of earthen dam section shall be provided from which 41.94 km long left main canal, PCC lined trapezoidal in section with authorized head discharge 6.2 cumec, shall off-take to provide flow irrigation in 9940 ha CCA lying in 39 villages of Ajaygarh block. The scheme shall provide irrigation during Kharif and Rabi in 2750 ha and 9800 ha area with crop intensity of 27.65% and 98.60%. The 75 % dependable yield has been estimated about 75.77 mcum. Thus, the annual irrigation shall be 13795 ha, with intensity of irrigation 126.25%. The distribution system shall comprise of 03 distributaries, 27 minors and 30 number direct outlets from main canal. For proper negotiation of the drains intercepted in command area, cross drainage works comprising of 04 aqueducts, 04 drainage siphons, 12 drainage culverts and 04 pipe culverts have been proposed. The cost of the project, as per price level February 2009, has been estimated as Rs. 269.79 crore with BC ratio of 1.65:1. The cost per ha on designed irrigation has been assessed as Rs. 2.75 lac.

PROJECT LOCATION:

The Geographical Coordinate of dam site is: Lattitude: 24ę50ő31.70òN, Longitude: 80ę 16ő29.6òE

ACCESSIBILITY:

The dam site is accessible by fair weather road from Panna town (district head quarter). The proposed dam site is about 20 km (road distance) towards North of Panna. The nearest railway station is Satna which is approx. 80 km from the project site while nearest airport is Khujraho which is 45 Km from district head quarter.

PROJECT NECESSITY:

As per assessment, the total irrigation potential of the state is 10.22 million ha against which 2.92 million ha has been created which per se is 28.57% of the irrigation potential and is significantly below the national average of 38.75%. Panna district is located in Bundelkhand region of MP and has faced drought conditions in last two decades during 1991-92, 1995-96, 2002-03, 2004-05, 2005-06, 2006-07. The district has faced drought in consecutive three years i.e. 2004-05 to 2006-07.Therefore, to improve the scenario and to have overall development of the Bundelkhand, Govt. of Madhya Pradesh has planned Runj Medium Irrigation project to provide irrigation in areas of Ajaigarh taluk by storing the river flow from Runj River. To harness the surplus water available in the Runj River during monsoon and non-monsoon season, an assured source of surface irrigation is vehemently needed in the area.

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES:

During construction period, on account of blasting, drilling, operation of DG sets and dewatering pumps and plying of heavy earth moving vehicles, trucks and dumpers, etc. The dust levels in the atmosphere will be increased. Also the gaseous emissions from vehicles, DG sets and oil engines will cause for minor increase in gaseous pollutants at the project sites. Hence, these would have some temporary impacts on the ambient air quality in the area, though these are not anticipated to be high. Burning of firewood/fuel by the construction workers for their cooking may have minor impact on the local air quality, which however can be avoided with provision of alternate cooking fuel such as kerosene or LPG gas, if feasible.

Construction of earthen dam will be taken-up during lean period when there little water in the river, hence water pollution due to construction activities will not take place.

The impact on soil environment due to proposed activities will not change the texture and quality of soil. However, some impact at dam site has been anticipated which can be reduced from a well framed management plan.

The anticipated noise levels would be around 80-90 dB(A) at the project site during the peak hour construction period. As controlled blasting would be undertaken, this will have only marginal impact on the nearest Pandevpura village located at about 0.5 km distance.

The dam construction and transportation activities during the construction phase would cause some disturbances to existing flora and nearby fauna, hence a suitable management and monitoring plan has been suggested. As there are plenty of similar habitat areas along the river in upstream and downstream, the impact on fauna will be minimal.

During the post-construction phase all environmental impacts occurred during construction stage would be ceased. During this phase, most positive impacts due to water supply for irrigation purposes will be resulted. Some impacts like salinity, siltation and weed spreading have been anticipated. Hence, a separate management plan for each component has been suggested.

PROBABLE POSITIVE IMPACTS OF THE PROJECT:

There will be number of positive changes on the socio-economic conditions of the people in the surrounding area. There will be obvious change in the scenario leading into the Socio-economic development of the area. Some of them are as below-

- Increased Irrigation Potential
- Better Living Standards
- Access to improved infrastructure facilities
- Improved Market Facilities
- Employment Potential / Fisheries
- Tourism / Recreation Facilities
- Sustained Water Availability for Agriculture, industrialization and Drinking increased
- Green cover
- Improvement in Ground Water Level
- Improvement in Educational Facilities
- Improvement in Transport, Electrical and Communication
- increase in Health Care Facilities
- Improvement in Life Style, Status and Confidence Building
- Economic Development due to Draw down Cultivation
- Command Area Development
- Employment generation

DISASTER MANAGEMENT PLAN:

The most accepted dam breaking model *HEC-RAS version 4.1.0* has been used for this study. The objective of this study is mainly to estimate travel time of flood water, Peak water level ï extent of inundation, Peak discharge and duration of flooding. The critical condition for a dam break study is when the reservoir is at Full Reservoir Level (FRL) and design flood hydrograph (PMF in the present case) is impinged. Accordingly, in the present study keeping the reservoir at FRL of 221.5 m, the reservoir routing has been carried out by impinging the PMF. For opening schedule of spillway gates the elevation controlled algorithm of HEC-RAS model has been used, where the spillway gate opening is controlled with the rise and fall of reservoir water level just upstream of dam. The maximum water level reached in the reservoir during routing is 222.07 m which occurs 14 hours after the impingement of PMF. The top of dam is at EL 225.35 m.

An emergency preparedness plan has been also prepared which includes preventive action, evacuation plan, communication system, need of public awareness and other activities. A provision of separate fund has been also kept reserved for implementation and maintenance of suggested system.

Compensation of private land after passing award shall be paid to the cultivators. Dhara 04/06 has been published Revenue land under submergence has been transferred to the Water Resources Department. The complete canal system is about 41.94 Kms. In length and will be lined to achieve the optimum utilization of water. 7.344 M. Cum water is exclusively earmarked for drinking purposes. One village is reported to fall under submergence and as such R/R Plan is submitted to be Govt. of M.P.

EIA report, proposed EMP, Public Hearing proceedings and other features of the project were presented by the PP and his consultant before the committee in 173rd meeting dated 23rd Feb. 2015 wherein it was reported that the Stage-I, FC clearance has been obtained and the matter has been forwarded for Stage-II clearance. After deliberations PP was asked to submit following information along with supporting documents:

- Point-wise note of the issues raised in Public Hearing vis-à-vis Response of the WRD.
- Surface water quality with special reference to the concentration of heavy metals, fluoride and other drinking water parameters.

PP has submitted the reply on above issues on dated 28/04/15, 25/06/2015 and 28/12/2015 addressing the issues raised during public hearing and response of WRD which were placed

before the committee. The case was presented by the PP wherein PP informed that all the points raised during public hearing have been addressed by them and they have also obtained consent of gram panchayat for construction of the dam.

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

- About 2% of the project cost be earmarked for implementation of EMP and of this 30% should be utilized for plantation. The balance can be utilized for other CSR related activities such as Health, Field Training & Extension for farmers of the affected areas, incentives for soil & Water conservation & Environmental monitoring etc.
- The commitments given during public hearing should be ensured by the PP.
- As the project also involves forest area thus necessary clearance under FCA will be obtained by PP from MoEF&CC, Govt. of India.

3. 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)*

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 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.

4. **Case No. - 4270/2015 Shri Kishan Wadhani, Project Engineer, M.P. Police Housing Corporation, Indore Division, D-30, HIG Colony, A.B. Road, Indore (MP)-452008** ***Prior Environment Clearance for proposed Multi Storey Residential Complex for Police Personnel at Bicholi (Near IDA Scheme No. -140) Khasra no. - 497, Village-Piplyahana, Tehsil & District-Indore (MP) Site Area – 32030 Sqm, Total Built-up Area – 89536.54 Sqm.***

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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.

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 monthôs time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

5. **Case No. - 4190/2015 Shri M.K. Sahu, Executive Engineer, M.P. Housing & Infrastructure Development Board, Div. No. 1, GTB Complex, New Market, Bhopal (MP)-462011** ***Prior Environment Clearance for proposed construction of EWS & LIG Colony at Khasra No.- 219, Village-Khajlikheda Mahabadia, Tehsil-Huzur, District-Bhopal (MP) Plot Area- 40469 sqm, Built up Area -51597.4 sqm.*****(Consultant: Greencindia Consulting Pvt. Ltd, NCR, Ghaziabad)**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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 site is located in village KajliKheda, Bhopal. The site is well connected by Kolar Road which is running at a distance of 0.70 km from the project site in eastern direction. This Kolar Road connects the project site to the Bhopal City. The site is about 17.3 km from Bhopal Junction (N), 13.4 km from Habib Ganj Railway Station (NNE) & 20.6 km from Raja Bhoj International Airport (NNW).

DESCRIPTION OF THE PROPOSED PROJECT

Proposed project have the total plot area of 4.04 hectares (40469 m^2).It has been proposed to achieve ground coverage of 11,934.7 $m^2$with FAR area 36,983.7 m^2 and Non- FAR area 14,613.7 m^2.

Project Name	:	Environment Clearance for Construction of EWS & LIG Colony at village KajliKhedaMahabadia, Bhopal, M.P.					
Population (no.)	:	4,560					
Land Requirement (in m^2)	:	Plot Area	Ground Coverage	Green Area	Services	Road & Parking	Open Area
		40,469	11,934.7	5,777.0	2,100.0	11,571.5	9,085.8
Built-up Area (in m^2)	:	FAR		Non-FAR		Total	
		36,983.7		14,613.7		51,597.4	
Dwelling units (no.)	:	912					
Proposed Parking (ECS)	:	556					
Water Requirement	:	Phases	Fresh Water in KLD	Treated Water in KLD	Total Water in KLD		
		Construction	9.5	113.9	123.4		
		Operation	437.3	216.3	653.6		
STP	:	620KLD MBBR Technology STP					
Solid Waste	:	3,195 kg/day					

Generation		
Power Requirement	:	3,000 kVA, M.P State Electricity Board
Emergency Power Back-up	:	1 of 160KVA

WATER CONSUMPTION

a) Construction Phase:

It is estimated that total water demand during construction phase is 123.4 KLDbased on 135 LPCD water for domestic consumption as per CPHEEO standards. The water requirement for construction, domestic activities and landscaping are 81.0 KLD, 13.5 KLD and 28.8 KLD respectively. Out of total water demand of 123.4 KLD, fresh water requirement of 9.5 KLD will be met by Authorized private Tanker and remaining water demand of 113.9 KLD is met through Treated water of Development Authority. By using the 86 LPCD of water as per MOEF standards, the total water requirement will be 118.49 KLD.

b) Operation Phase:

It is estimated that the total water demand during the operation phase will be 653.6 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The fresh water requirement is calculated to 437.3 KLD, whereas treated water in the tune of 216.3 KLD will be used for the landscaping, flushing and miscellaneous purpose. The fresh water demand will be met from bore wells. By using the 86 LPCD of water as per MOEF standards, the total water requirement has reduced to 430.13 KLD. This help in water conservation of 34.2%, so we will use MOEF standard for water requirement.

POWER REQUIREMENT

Construction Phase:

During construction phase the estimated electrical load will be 250 KVA. Power backup of 150 KVA in the form of DG set will be provided. The supply will be by MP State Electricity Board.

Operation Phase:

During Operation phase the estimated electrical load is 3000 KVA. The supply will be by MP State Electricity Board. Power back-up will be provided by the DG sets of capacity 160 kVA only for lifts and lighting at common places. Stack height of 27 m will be provided as per CPCB guidelines. DG sets will be installed with acoustic enclosures.

PARKING NEEDS

Total parking required for the LIG block according to Madhya Pradesh Bhumi Vikas Rules is 516 ECS and the parking proposed is 556 ECS.

GREENBELT DEVELOPMENT

Construction Phase:

The proposed project site is almost vacant with scanty grasses and few trees which will be preserved as a part of greenbelt development. During the construction period, it is to be ensured that there is no exploitation of trees around the project area especially for obtaining fuel wood by the workers. Guards may be deputed to ensure the same.

Operational Phase:

An area of 5777 m^2 has been identified for greenbelt development. The green area should be properly maintained and dead plants should be regularly replaced. Total 678 local trees will be planted along the 9m and 12m wide road side.

WATER CONSUMPTION

a) Construction Phase:

It is estimated that total water demand during construction phase is 123.4 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The water requirement for construction, domestic activities and landscaping are 81.0 KLD, 13.5 KLD and 28.8 KLD respectively. Out of total water demand of 123.4 KLD, fresh water requirement of 9.5 KLD will be met

by Authorized private Tanker and remaining water demand of 113.9 KLD is met through Treated water of Development Authority. By using the 86 LPCD of water as per MOEF standards, the total water requirement will be 118.49 KLD

b) Operation Phase:

It is estimated that the total water demand during the operation phase will be 653.6 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The fresh water requirement is calculated to 437.3 KLD, whereas treated water in the tune of 216.3 KLD will be used for the landscaping, flushing and miscellaneous purpose. The fresh water demand will be met from bore wells. By using the 86 LPCD of water as per MOEF standards, the total water requirement has reduced to 430.13 KLD. This help in water conservation of 34.2%, so we will use MOEF standard for water requirement.

WASTEWATER TREATMENT & DISPOSAL

Construction Phase:

5.36 KLD of wastewater will be generated during construction phase from the domestic activities. The sanitation facilities will be provided in terms of Mobile Toilet.

Operation Phase:

Approximately 350 KLD of wastewater will be generated from the fresh water. Overall 518 KLD of waste water will generated during the operation phase. Adhering to 86LPCD water will lead to 35.8% reduction in waste generation compared to the 135 LPCD of water.

Sewage Treatment Plant: Minimum capacity of STP proposed is 400 KLD, This will be increased to 620 KLD in further phases (20% excess of capacity of total generated waste water) based on MBBR Technology is proposed to be constructed within the proposed project. The treated wastewater will be used for flushing, landscaping, road washing, water sprinkling, car washing and miscellaneous purposes.

The case was presented by the PP and their consultant wherein in it was observed that the total fresh water requirement is 437.3 KLD and for conservation of water, dual plumbing is proposed. After presentation PP was asked to submit response on following quarries:

1. Submit CGWB permission for abstraction of ground water as per OM of SEIAA no. 4253 dated 03/08/2015.
2. Submit permission of concerned authority for disposal of municipal solid waste as per OM of SEIAA no. 4253 dated 03/08/2015.
3. Disposal plan for excess treated water and if
   (a) The disposal is through municipal drain submit permission of concerned authority as per OM of SEIAA no. 4253 dated 03/08/2015 and
   (b) The disposal is in the nearby natural drain please provide the details of water body where this drain ultimately meets.
4. Submit the details of provisions made to reduce the water demand to 86 LPCD.

6. 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 14th 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^2
3.	**Net plot area**	29914.72 m^2
4.	**Ground Coverage Details**	**Permissible** Multiunit @40% Plotted @60% **Proposed =11850.1 m^2**
5.	**Permissible FAR**	Permissible FAR @1.25 = 37393.4 sqm **Proposed FAR** Total ï 37393.4 m^2
6.	**Non- FAR details**	Stilt = 6524.80 m^2 Informal Sector = 673.1 m^2
7.	**Total Built-up area**	**37393.4 m^2**(As per MPVPR) **44591.3 m^2** including Non-FAR (MoEF)
8.	**Open/ Park Area (Landscape)**	**3239.76 m^2 (10.83% of net plot area)**
9.	**Road and internal circulation space/ Paved area**	**12059 m^2 (40.31%)**
10.	**No. of Trees**	Total no. of trees required: 1 Tree/ 100 m^2 of Open Area = (Total Planning Area-Ground Coverage)/100 = 18064.6/100=181 Trees **Proposed : 185 Trees**
11.	**No of units to be developed**	**No. of multi units: 384** **Duplex : 24** **EWS : 33**
12.	**No of multi dwelling units**	**8 Towers**
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	**Required** Parking as per T&CP=250 Vehicle spaces Visitors Parking @10% = 25 Vehicle spaces **Total = 275 Vehicle spaces** **Provided:** **Stilt Parking =** 217 Vehicle Space **Open Parking =** 60 Vehicle Space **Total Provided Parking = 277 Vehicle Space**
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^2)	Total Occupancy	Rate of water demand (lpcd)	Total Fresh Water (KLD)	Total Flushing/Recycled 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
Total Domestic water					**148**	**50**	**198**
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		0.9 l/KVA/Hr	--	0.6	0.6
Total Water Requirement					**148**	**70**	**218**
				Grand Total = 218 KLD			

Parking Details

REQUIRED PARKING	
RequiredParking as per T&CP	250 Vehicle spaces
Visitors parking @10%	25 Vehicle spaces
Total Parking Required	275Vehicle spaces

PROPOSED PARKING	
Stilt Parking	217 Vehicle Space
Open Parking	60 Vehicle Space
Total Parking Provided	**277 ECS**

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
Total Waste Generated (MT/day)				**1583**

Case was presented by PP and their consultant. 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 by the PP thus clearance from NBWL is therefore needed. Committee after deliberations decided that PP should be asked to apply

online for NBWL clearance and a copy of the application may 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% has been done prior to the submission of application for EC. Thus committee also decided to carryout site visit as per the policy decision of 204th SEIAA meeting dated 30/05/2015 for violation cases.

7. Case No. - 4284/2015 Shri Anil Pali, Director Saraswati Infrabuild Pvt. Ltd. Shop No.-21, Ravi Shankar Shukla Market, Bus Stop No.-5, Shivaji nagar, Bhopal-462016 *Prior Environment Clearance for proposed Residential project "Dynamic Green Delight" at Khasra no.-406/KA, 406/GA, 406/KH, 406/GHA, Toatl Land Area- 18480.0 sq. m., Total Build up Area- 39742.72 sq.m. Village-Barkheda Pathani, Tehsil-Huzur, District-Bhopal (MP)*

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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 AND SURROUNDINGS

The proposed site is located at Village- Barkeda Pathani, Vikas Khand- Fanda, Tehsil-Huzur, Distt. Bhopal. The Geographical co-ordinate of the project site is: Latitude - 23° 13ô 0.13ò N & Longitude - 77° 29ô 1.38ò E. The project site is well connected with National Highway NH-12. The nearest railway station is Bhopal Railway station at a distance of approx 9.0 Km in North West direction. The nearest airport is Raja Bhoj International Airport Bhopal at a distance of approx. 18.0 Km in North West direction from project site. It is also knows as Regur (Humus) soil. Black soils are composed of Basaltic rocks mainly found in the Deccan Trap (Malwa Plateau). It is distributed is nearly 47.6 percent of the land of Madhya Pradesh. Such soil mainly consists of Iron and lime rocks. The presence of Iron gives it the Black colour and the presence of lime increases its moisture retention capacity therefore needs less irrigation. Cotton and soya bean are most suitable crops to be

grown in such soil. The quantity of Calcium, Magnesium, Aluminum, Iron, Potassium and Magnesium Carbonate is more in black soil but it laks in Nitrogen, Phosphorous and Carbonic elements.

AREA DETAILS

Total Plot area is 18480.0 sqm, Area under 12M and 30M road is 1391.36 sqm, so Net scheme area is 17088.64 sqm. Total Built up area is 39742.72 sqm.

	Details
Name of project	"Dynamic Green Delight"- Residential housing project
Address	Khasra nos. 406/KA, 406/GA, 406/KH, 406/GHA, Village-Barkheda Pathani, Tehsil-Huzur, District-Bhopal (MP)
Applicant	Saraswati Infrabuild Pvt. Ltd., Shop No. 21, Ravi Shankar Shukla Market, Bus Stop No. 5, Shivaji Nagar, Bhopal (M.P.)
Name of the proponent	Mr. Anil Pali (Director)
S. No. in Schedule	8(a) {Building and Construction projects ≥ 20,000 sq. m. and <1,50,000 sq. m. of built-up area }
Category of project	B2
Plot area	18,480 sq. m.
Surrendered area	1,391.36 sq.m (Area under 12 & 30 m wide road)
Net Planning Area	17,088.64 sq.m
Built up area	39,742.72 sq. m.
Ground coverage	Permissible : 30% (5126.59 sq. m.) Achieved : 26.92% (4600.83 sq. m.)
Green Area	3103.91 sq. m. (18.16%)
Project facilities	The project will comprise of 320 residential flats (2 BHK: 80 nos., 3 BHK (type A): 80 nos, 3 BHK (Type B: 160 nos.), EWS flats (28 nos.), LIG flats (20 nos.), commercial area (2784 sq. m.),

	entertainment area (259.01 sq. m.), etc.
Population	1600
Parking facilities	Parking required : 409 ECU Parking provided : 409 ECU
Water requirement & source	Total Water Demand : 244 KLD Fresh water : 162.7 KLD Source : Municipal water supply
Sewage Treatment & disposal	STP of 240 KLD Based on FAB technology
Solid waste generation	823.2 kg/day
Power requirement & source	Connected load: 3778 KW Source : MPSEB
Emergency back up	2 nos. of 1000 kVA each DG sets

WATER REQUIREMENT DURING CONSTRUCTION STAGE

For major construction activities daily requirement of water will be 23.8 m3 (peak demand) per day. Water consumption for the Non-resident laborers will be 60 @ 30 lpcd = 1800 liters. Water consumption for the resident laborers will be 24 @ 70 lpcd = 1680 liters. Water requirement for dust suppression which will be about 6.5 m3/day. Therefore, during the construction phase, total daily water requirement will be 23800 liters + 1800 liters + 1680 liters + 6500 liters = 33780 liters = 33.8 m3/day. This will be sourced by Private tankers.

SL.No.	**Purpose**	**Requirement (m3/day)**
1.	Construction (Peak)	23.8
2.	Nonresident laborers (60 @ 30 lpcd)	1.8
3.	Residing laborers (24 @ 70 lpcd)	1.7
4.	Dust suppression	6.5
	Total	**33.8**

WATER REQUIREMENT DURING OPERATION STAGE

During operation phase water will be sourced from Municipal Water. Fresh Water consumption for the Residential People 1600 @ 90 lpcd = 144.0 m3/day, Flushing for Residential People 1600 @ 45 = 72.0 m3/day, Fresh Water Consumption for Floating People will be 160 nos @ 30 = 4.8 m3/day, Flushing for Floating People will be 160 @ 15 lpcd = 2.4 m3/day, Fresh Water requirement for Commercial People 464 @ 30 lpcd = 13.9 m3/day, Flushing for Commercial People is 464 @ 15 lpcd = 6.9 m3/day, for dust suppression and Landscaping the required water will be 12.9 m3/day and 12.4 m3/day respectively.

WASTE WATER GENERATION AND TREATMENT

Every building generates wastewater amounting about 80 % of total water consumed. The major source of wastewater includes the grey water from kitchens, bathrooms and black water from toilets. It is expected that the project will generate approx. 195.2 m3/day of wastewater. The wastewater will be treated in the STP of capacity of 240 m3/day provided within the complex. Out of which 116.3 m3/day will be recycled within the project for flushing (81.3 m3/day), landscaping (12.4 m3/day), Dust suppression (12.6 m3/day), STP loss (8.0 m3/day) & HVAC (10.0 m3/day). 70.6 m3/day will become surplus which will be discharged to drain.

POWER REQUIREMENT

The total consolidated electrical load estimate for proposed project is about **3778 KW**. The power will be entirely supplied by Madhya Pradesh State Electricity Board. Also, in case of power cut, 100 % power backup generator will be provided for common uses only. For this purpose diesel generator having 1000 KVA (2 nos.) capacities will be provided.

PARKING DETAILS

Parking Proposed:
Total Parking Area provided = 12330.0 m2
As per Bye-laws:
Parking Area Required for Residential = 30 % of Residential Built up Area
= 30 x 36958.4/100
= 11087.52 m2
Parking Area Required for Commercial = 40 % of Commercial Built up Area
= 40 x 2784.0/100

= 1113.60 m2
So, Total Parking Area required = (11087.52+1113.60)=12201.12 m2
So, Total Parking Area provided = 12330.0 m2

The case was presented by the PP and their consultant wherein in it was observed that the total fresh water requirement is 274 KLD and for conservation of water, dual plumbing is proposed. After presentation, PP was asked to submit response on following quarries:

1. Detailed plantation scheme which should be marked on layout along with name of species and their respective numbers.
2. Revised water balance details as there is difference in the figures shown in the application and during presentation.
3. Disposal and management plan of excavated soil.
4. Is there any provision for childrenôs play ground in the proposed project? If yes, please mark the same on layout map and submit.

8. Case No. - 4269/2015 Shri Jitesh Parwani, Partner, M/s Shiv Parvati Enterprises, Mezzanine Floor, City Trade Centre, 141, Malviya Nagar, Bhopal-462001 ***Prior Environment Clearance for proposed Residential Blocks, Conveninent Shops and Plot Development at Khasra no.-16/1, 16/2, 17, 18, 21/1, 21/2, 22, Village-Bagli, Block-Phanda, Tehsil-Huzur, District-Bhopal (MP) Total Land Area – 4.50 ha., Total Land Available Area – 44151.13 sqm, Total Built-up Area -34503 sqm.,*** **For-Building Construction.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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.

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 monthôs time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

9. Case No. - 4356/15 Shri Alpesh P. Patel, Partner, M/s Vini Industries, 2, Jupiter, Opp. Indian Bank, Dalal Colony, Daxini Maninagar, Ahmedabad, Gujarat-380008 *Prior Environment Clearance for approval of proposed Manufacture of Synthetic Organic Chemicals Industry (Dyes & Dyes Intermediates; Bulk Drugs and Intermediates excluding drug formulation; Synthetic Rubbers; Basic Organic Chemicals other Synthetic Organic Chemicals and Chemical Intermediates) Capacity – 3150 MTPM, Land Area – 4446 sq.mt. at Plot No. – 125, AKVN, Ind. Area - Meghnagar, Th-Meghnagar, District- Jhabua (MP)*

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. PP and his consultant presented the salient features of the project before the committee in the meeting. The proposed project is located at Plot No. 125, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State.

Salient feature of project

Project	**Dye Intermediates & different emulsifier manufacturing**
Location	Plot No. 125, AKVN Industrial Area, Village: Meghnagar, Taluka: Meghnagar, District: Jhabua in Madhya Pradesh.
Area for plant	4446.0 sqm
Flue gas stacks	Three; one stack attached to Boiler (600 Kg/hr), TFH (5 lakh k Cal/hr.) & one to D.G. Set (125 kVA)
Process gas stacks	One process stack
Fuel	Bio Fuel/Coal for boiler & HSD for TFH & D.G. set
Fuel consumption rate	Bio Fuel/Coal – 1.5/1.1 TPD & HSD – 1.5 TPD for TFH & 35 lit/hr. for DG set.
Power supply	Power supply from MPPKVVCL

	Energy consumption: 150 kVA & stand by D.G. Set (1 x 125 KVA) in case of power failure

- No ecologically protected area or archeologically protected site or other environmental sensitivity has been reported within 10 km radius of the site.
- Industry has also obtained NOC for water supply from AKVN, Meghnagar
- Industry has also obtained certificate regarding the distance of interstate boundary which more than 10 km radius.

Product Profile

Sr. No.	Name of Product	Quantity (MT/Month)
1	Vinyl sulphone	100
2	Acetanilide	50
3	Emulsifier a) Castor oil 40 Ethoxylate, b) Lauric Acid 10 Ethoxylate c) Nonyl Phenol 5 Ethoxylate d) Polyethylene Glycol 400 e) Octyl Palmitate f) Ethylene Glycol mono stearate g) Coco diethanol amide h) Coco monoethanol amide i) Glyceryl Mono stearate j) Glyceryl mono oleate	3000
Total		3150
By Product		
1	Acetic acid	22.1
2	Dilute sulphuric acid	390
3	HCl	120
4	Glauber salt	80

Raw Material for Dyes Intermediate

Sr. No.	Name of Raw Materials	Quantity (MTPM)
Vinyl Sulphone-100 MTPM		
1.	Acetanilide	52.29
2.	Chloro sulphonic acid	156.86

3.	Thionyl chloride	47.06
4.	SBS	12.29
5.	Caustic lye	83.66
6.	Ethylene oxide	27.58
7.	Spent acid	65.36
8.	Sulphuric acid	39.22
Acetanilide-50 MTPM		
1.	Aniline oil	39.00
2.	Acetic acid	8.50
3.	Acetic anhydride	2.50

Raw Material For Emulsifier

Sr. No.	Name of Raw Material	Quantity (MT/MT)
A	Castor oil 40 Ethoxylate	
i	Castor oil	0.346
ii	Ethylene Oxide	0.654
B	Lauric Acid 10 Ethoxylate	
i	Lauryl Acid	0.312
ii	Ethylene Oxide	0.688
C	Nonyl Phenol 5 Ethoxylate	
i	Nonyl Phenol	0.360
ii	Ethylene Oxide	0.640
D	Polyethylene Glycol 400	
i	Diethylene Glycol	0.558
ii	Ethylene Oxide	0.442
E	Octyl Palmitate	
i	2-Ethylhexanol	0.345
ii	Palmitic Acid	0.655
F	Ethylene Glycol mono stearate	
i	Ethylene Glycol	0.180
ii	Stearic Acid	0.820
G	Cocodiethanolamide	
i	Fatty acid of coconut oil	0.662
ii	Diethanolamine	0.338
H	Cocomonoethanolamide	
i	Fatty acid of coconut oil	0.682
ii	Monoethanolamine	0.318
I	Glyceryl Monostearate	

i	Glycerin	0.245
Ii	Stearic Acid	0.755
J	Glyceryl monooleate	
I	Glycerin	0.250
ii	1,1 diethoxy-3-methyl butane	0.750

Land break Up:

Sr. No.	Details of Land	Proposed Area (Sq. m)	Percentage (%)
1	Main plant Building (Production Area)	2000	8.33
2	Storage area	800	3.33
3	Administration and Research buildings (offi + Wm area)	300	1.25
4	Utility area (Boiler & Cooling Tower)	600	2.5
5	Parking Area	100	0.41
6	ETP	2000	8.33
7	Labour room & Security	100	0.41
8	Road	1000	4.16
9	Greenbelt Area	7920	33
10	Open space	9180	38.25
Total Plot Area		24000	100

Water Pollution measures and Balance

Sr. No.	Source	Water Consumption (KLD)	Wastewater Generation (KLD)
I	Domestic	3.5	3.0
II	Gardening	4.0*	--
III	Industrial		
(a)	Process	9.0	15
(b)	Water treatment	4.0	4.0
(c)	Scrubber	5.0	--
(d)	Washing	2.0*	2.0

(e)	Cooling	7.5	2.5
(f)	Boiler	2.5	0.5
Total Industrial		30.0	24.0
Total (I + II + III)		37.5	27.0
Recycle		6.0	--
Actual fresh requirement		31.5	

The source of wastewater generation will be from process, Water treatment, washing, Cooling & Boiler. Effluent generated from condensation process of VS will directly sent to MEE or spray dried & dilute stream of utility will be treated into primary effluent treatment plant, treated water from ETP will sent to RO. Recovered water from RO will be reused for washing & greenbelt development & RO reject will be sent to MEE or spray dried.

Solid / Hazardous Waste Management

Sr. No.	Type of Waste	Category of Waste as per HWM Rules-2008	Quantity in MTPM	Disposal facility
1.	ETP Waste	34.3	2.5	Collection, storage, transportation and dispose to TSDF
2.	MEE Salt	34.3	2.5	Collection, storage, transportation and dispose to TSDF site
3.	Used Oil	5.1	0.1	Collection, storage & reuse for internal lubrication purpose. In case of excess, sell to registered re-processors.
4.	Discarded Containers/ Drums	33.3	0.5 MT or 200 nos./month	Collection, storage and disposal by selling to authorized dealers.

The case was presented by the PP and their consultant and after deliberations committee recommended for inclusion of following additional points to be addressed in the EIA / EMP in addition to standard TOR:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.

2. Product-wise Water balance along with the overall water balance to be worked out & presented so as to achieve ôZero liquid dischargeô from the unit.
3. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products.
4. Inventory of all the raw material with mass balance of each of the chemicals being used or proposed to be used.
5. The EIA has to be prepared by an accredited consultant only.
6. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
7. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
8. Plan for prevention of waste water percolation into the ground water to be submitted.
9. Existing pollution load with respect to air / water and soil to be presented.
10. List of material proposed to be stored beyond the prescribed thresh-hold limits.
11. Ground-water study shall be carried out in the region including the water table and the quality.
12. Committee also proposes to undertake site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 the. SEIAA meeting dated 14/10/2015) and after site visit if required, additional TOR may be issued.
13. If itôs an existing unit, committee decided that following information with necessary details should also be provided by the PP with EIA report along with necessary documentary evidences:

    a. The list of equipment and machineries with year of installation of each one of them from date of consent to establish obtained from M. P. Pollution Control Board.
    b. The product-wise monthly production details from the first date of consent to operate obtained and till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
    c. The product-wise monthly consumption of raw materials from the first date of consent to operate obtained and till date.
    d. Copies of consent and authorization under HW (M, H & TBM) Rules, 2008 issued by the M. P. Pollution Control Board.
    e. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.

f. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
g. Details of hazardous wastes with their respective quantities generated from the first date of consent to operate obtained and till date with their mode of disposal with documentary evidences.
h. 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.

Committee also decided that Regional Officer, M. P. Pollution Control Board, Dhar may also be asked 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.

10. Case No. - 4286/2015 Shri M.K. Sahu, Executive Engineer, M.P. Housing & Infrastructure Development Board, Div. No. 1, GTB Complex, New Market, Bhopal (MP)-462011 ***Prior Environment Clearance for proposed Residential project "Devki Enclave" at Khasra no.-7/1, 98, Village-Nishatpura, Tehsil-Huzur, District-Bhopal (MP) Total Plot Area – 41080.00 Sqm. (4.108 Hect.) Proposed Built-up Area - 32065.00 Sqm.***

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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.

Project Details

Name of the Project	: Devki Enclave ï Devki Nagar of M.P. Housing & Infrastructure Development Board.
Total Plot Area	: 41080.00 Sq. Mt.

Proposed Builtï Up Area	: 32065.00 Sq.mt
Total No. of Flats	: 112 Nos. HIG, 216 Nos. MIG, 24 Nos. LIG
Total No. of EWS	: 36 Nos.
Expected Population	: 1890
Water requirement	: 331 KLD
Source of Water	: Municipal Corporation Bhopal
Power requirement	: 1400 KW
Source of Power	: MPEB
Solid Waste Generation	: 0.786 TPD
Waste Water Generation	: 206 KLD
Railway Station	: Bhopal Railway Station ï 6.4 Km away from site
Air Port	: Bhopal Airportï 9.1 Km away from site
Topography	: Almost Flat
Annual Average Rainfall	: 1146 mm
Coordinates of Site	: 23°17'27.74"N, 77°23'49.61"E Elev. 1651ft.

AREA DETAILS:-

The proposed residential and commercial project is planned in a plot measuring 41080.00 Sq.m. (4.108 Hect.) at village ï Nishatpura, Tehsil ï Huzur, Distt. ï Bhopal (MP).

Khasra No.	
1.	7/1
2.	98
Total =4.108 Hect. or 40180.00 Sq.mt.	

Proposed layout of housing scheme at berasiya road on kh. No. 7/1 and 98 bhopal., [Near Panna Nagar and Devki Nagar]		
Total Land Area	= 4.108 Hect.	
Landuse statement		
Total Land Area	= 4.108 Hect.	
Residential	= 1.212	29.50 %
Open along railway land	= 0.612	15.27%
Open for pylon	= 0.015	
Organized open	= 0.403	9.81%
Circulation area	= 1.866	45.42%
Total	= 4.108	100%

AREA STATEMENT

Statement	Permissible	Proposed
Ground Coverage	12324 Sq.m. (30%)	8261.00 Sq.m. (20.10%)
F.A.R. (Built Up Area)	1:1.25 (51350.00 Sq.m.)	1:0.78 (32065.00 Sq.mt.)
Set back from railway boundary	30.0 M	30.0 m (Minimum)
Front M.O.S.	12.0 M	From Entry Road = 12.0 M.
Other M.O.S.	4.50 M	6.0 M (minimum)
Max. Heights of Building	18.0 M	12.0 M (Hig, P+4)
Covered parking	6223.20 Sqm (required)	6895.00 Sq.m.
Statement of 15% shelter less (EWS/LIG)		
HIG flats (P+4) 7 BLOCKS	TOTAL 112 nos.	
Mig flats (P+3) 18 blocks	Total 216 nos.	
15 % of HIG, MIG 328 flats = 49.20 (50 Nos. Flats for EWS & LIG) 60 Nos.		
60% of 50 flats = 30.00 (30 Nos. Flats for EWS)		
40% of 50 flats = 20.00 (20 Nos. Flats for LIG)		
Proposed no of flats for EWS (3 blocks)		= 36 Nos.
Proposed no of flats for LIG (2 blocks)		= 24 Nos.
Total No. of Flats		= 388 Nos.

Blocks	No. of Blocks	No. of Floors	No. of Flats
HIG	7	(P+4)	112

MIG	18	(P+3)	216
LIG	2	(G+2)	24
EWS	3	(G+2)	36
Total Blocks	**30**	**Total Flats**	**338**

WATER DETAIL FOR PROPOSED PROJECT:

Source of Water Supply

The Main source of water supply will be Municipal water supply. It will cater the domestic requirement whereas additional water requirement will be fulfilled by treated water from STP. In construction phase we will take water supply form the private tanker suppliers.

S. No.	Item Description	Residential
1.	Domestic Water Requirement	170 KLD
2.	Flushing Water Requirement	85 KLD
3.	Landscaping & other uses	76 KLD
4.	Total Water Demand	331 KLD
5.	STP Capacity	On 100% Load 229 KLD Proposed 250 KLD
6.	Available Treated Water through STP	206 KLD
7.	Used Treated Water	161 KLD
8.	Net Fresh Water	45 KLD

Daily Water Requirement				
S. No.	Item Description	Number of Persons / Seats	Water Requirement / head (litres)	Total water Requirement (litres)
A	*Fresh Water Requirement*			

1	Apartments/Flats & Duplex	1736	90	156240
2	EWS	144	90	12960
3	Maintenance Staff	10	20	200
	Sub Total of A			*169400*
B	*Flushing Water*			
1	Apartments/Flats & Duplex	1736	45	78120
2	EWS	144	45	6480
3	Maintenance Staff	10	25	250
	Sub Total of B			*84850*
C	*Treated Effluent Water Requirement – Misc. Uses*			
1	Landscaping	10300 Sq.mtr.	5	51500
2	Misc. ï Other Uses			25000
	Sub Total of C			*76500*
	Total water requirement (A+B+C)			*330,750*
				Or says 331 KLD

WASTE WATER TO STP				
S. No.	Item Description	Total water Requirement (litres)	Percentage of water to STP @ 85 % For Domestic and @ 100% for Flushing	Total water Requirement (litres)
A	*Domestic water*			
1	Apartments/Flats & Duplex	156240	0.85	132804
2	EWS	12960	0.85	11016
4	Maintenance Staff	200	0.85	170
	Sub Total of A			*143990*

B	*Flushing Water*			
1	Apartments/Flats & Duplex	78120	1	78120
2	EWS	6480	1	6480
4	Maintenance Staff	250	1	250
	Sub Total of B			*84850*
	Total waste water (A+B)			*228840*
		SAY CAPACITY OF STP ~		229 KLD
		Proposed STP CAPACITY		250 KLD

Total Daily Water requirement	*331 KLD*
Treated Effluent from STP @ 90% of STP Capacity	*206 KLD*
Fresh Water required from municipal Water	*331 KLD*

SEWAGE TREATMENT PLANT

It is proposal to provide a captive sewage Treatment of the entire domestic and kitchen waste generated in the Apartment. It is suggested that the S.T.P shall be package type based on Moving bed bio-film reactor which will provide high efficiency plant meeting the treated water characterization as per the state pollution control norms. The main feature of the plant shall comprise of perforated screen chamber, oil and grease chamber, equalization tank, Moving bed bio-film reactor, secondary settling tank, sludge dry bed, Treated Effluent Storage tank, Sludge Storage sump etc. It is proposed to install as sewage Treatment plant of capacity 229 KLD on 100% Load and Proposed STP Capacity is 250 KLD for project area. The treated water from residential area is 206 KLD which is reused for flushing, horticulture and other purposes.

SOLID WASTE CALCULATION:

Facilities Provided	Waste Generation Norms		Basis of Assumption	Unit		Total Waste Generated (TPD)
Residential	0.4	Kg/capita/ day	CPCB	1890	Persons	0.756
Garden & Open Space	0.003	Kg/Sq m/day	Discussion with Horticulturist	10300	Sq.mt.	0.0309
STP Sludge	0.33	Kg/MLD of wastewater treated	Manual for Sewerage and sewage treatment by CPHEEO	0.206	MLD	0.00006798
Waste Oil	100	Liters/MW/year	Assuming one maintenance per year	1.4	MW	140 Liter
Total Waste Generated (TPD)						**0.786968**
Total Biodegradable 55 % of total (TPD)						**0.4328324**
Total Non-Biodegradable 45 % of total (TPD)						**0.3541356**

Case was presented by PP and their consultant. 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 by the PP thus clearance from NBWL is therefore needed. Committee after deliberations decided that PP should be asked to apply online for NBWL clearance and a copy of the application may be submitted to SEAC for further appraisal of the project along with the present legal status of case pending in NGT.

PP was also asked to submit response on following:

1. Submit permission of Municipal Corporation for water supply as per OM of SEIAA no. 4253 dated 03/08/2015.
2. Submit permission of concerned authority for disposal of municipal solid waste as per OM of SEIAA no. 4253 dated 03/08/2015.
3. Disposal plan for excess treated water and if
   (a) The disposal is through municipal drain submit permission of concerned authority as per OM of SEIAA no. 4253 dated 03/08/2015 and
   (b) The disposal is in the nearby natural drain please provide the details of water body where this drain ultimately meets.
5. Submit revised parking plan as committee suggested that minimum 300 ECS should be provided.
6. Financial outlay for plantation should be enhanced and submitted.

11. Case No. - 4434/15 M/s Satya Infrastructures Ltd. Through Director Mr.Mayank Pathak, 34, Babar Lane, Bengali Market, New Delhi-110 0001 ***Prior Environment Clearance for Expansion of area development and township project plot area 442890 m2 and Total Built-up Area after expansion 148895.85 m2 at Khasra No. - 112, 113/3, 113/4, 119/3/1, 119/3/2/1, 128, 129/4/1, 129/4/3, 130, 131, 132, 133/1/2 kh, 133/1/2 gh, 133/2, 133/3, 133/159, 134, 137, 138, 139, 140/1, 140/2/1, 140/2/2, 141, 142, 143/2, 144/2, 146/1, 146/2, 146/3, 146/4, 147, 148/1, 148/2, 150,151,152, 155/2, 155/2/2, 155/2/3, 15/2/4, 155/3/, 156/1, 158/2 and 158/3 at Vill. – Raukhedi, Th. – Sanwer, Distt. Indore (M.P.)***

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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.

Project Details & Site and Surrounding

Particulars	Details
Location	Khasra no. 112, 113/3, 113/4, 119/3/1, 119/3/2/1, 128, 129/4/1, 129/4/3, 130, 131, 132, 133/1/2KH, 133/1/2/GH, 133/2, 133/3, 133/159, 134, 137, 138,139, 140/1, 140/2/1, 140/2/2, 141, 142, 143/2, 144/2, 146/1, 146/2, 146/3, 146/4, 147, 148/1, 148/2, 150, 151, 152, 155/2/1,155/2/2, 155/2/3, 155/2/4, 155/3, 156/1, 158/2, & 158/3, Village ï Raukhedi, Madhya Pradesh
Coordinates	22°49'32.69"N; 75°56'37.80"E
Type of Industry	Building & Large Construction project
Category	B, Type- 8(a)
Current status of land Use	Residential Land use as per Indore Master Plan, 2021
Nearest Road Connectivity	▪ NH 3- Agra Mumbai Road- Adjacent to site (W) ▪ Nearest City ï Indore ▪ Eastern Ring road: 6.6 km (SW) ▪ M.R 11: 5 km (S)
Nearest railway station	▪ Balrai Railway Station: 8 km (NE)
Nearest airport	▪ Devi AhliyabaiHolkar Airport: 18 km (SW)
Protected areas as per Wildlife Protection Act, 1972	▪ Ralamandal Wildlife Sanctuary: 20 km (SW)
Reserved/Protected Forests	Ralamandal- Devgurariya forest: 20 km (SW)
Rivers/Lakes	Khan river - 4.5 Kms.(SW) Sipra river - 7 kms (NE) Pipaliyapalatalab ï 18.5 km (SW) Bilawali Lake- 20 km (S)
Industrial Area	Sanwer Road Industrial Area: 20 KM (NW)
STP/ Landfill site	KabirKhedi STP: 10 km (SW) Landfill site Indore: 17 km (S)
Archaeological important places	KrishnapuraChhatries, Lalbaug Palace, Khajrana Temple, Rajwada, Annapurna Temple, GeetaBhavan, KanchMandir&BadaGanpati lie within 15 km from proposed site.
Seismic zone	Seismic Zone II
Defense installations	Indore Cantonment Area: 14 km* (SW)
Note: All distances are measured aerially	

Items	Details
Total Plot area	4,42,890 m^2
Area under road widening	4,975 m^2
Net Planning Area	4,37,915 m^2
Ground Coverage	Proposed Ground Coverage: 1, 44,512 sqmt (33%)
FAR	Permissible: Net Planning Area FAR @ 1.5 x4,37,915= 6,52,372 m^2 FAR against road widening @ 2x1.5x 4,975 =14,925 m^2 Total Permissible FAR: 6,67,297m^2 **Total Proposed FAR**: 1,17,155.21 m^2
Non ï FAR Area	31,741m^2
Total Built up area	**1,48,895.9 m^2**
Circulation & services	1,40,447 m^2 (32% of net plot area)
Green & Landscape area	1,52,956 m^2 (35% of net plot area)
No. of Trees	Permissible Trees: 4,380 Trees (Tall and medium height) Trees already Planted on site : 9,000 Trees
Total Dwelling Units	Proposed Residential Units: Plots : 963 Units Row Houses: 29 Units Flats : 460 Units EWS : 351 Units Proposed Total Residential units: 1803 Units School :1 Unit Club :1 Unit Nursing Home : 1 Unit
Estimated Population	Residential Populationï 9,015 (@ 5 person per unit) School Population - 585 Person Club House - 437 Person Nursing home - 103 Person Commercial area - 4697 Person

	Milk booth and shops - 209 Person Staff - 450 Person Visitors - 902 Person
Max. No of floors	S+6
Maximum Height	Approx 18 m
Parking Provisions	Parking required for Multiunit and Commercial : 1,277 ECS (@ 1 ECS / 100 sqmt FAR) Parking Provided: Stilt Parking for Residents : 302 ECS Open Parking for commercial : 1000 ECS Total Parking Provided : 1302 ECS Individual parking space will be provided in the plotted houses.
Power requirement& source	Power requirement: 6,572 kVA Source of Power: MPSEB (Madhya Pradesh State Electricity Board)
Power backup (DG Sets)	Back up DG sets : 1900 KVA (D.G. Sets ï 1x1000 KVA+ 1x150KVA+ 2x125+ 1x500) D G sets will be installed in open area
Water requirement & source	Fresh water: 698 KLD (Ground water) Reuse of treated effluent from STP: 753 KLD Total water requirement: 1451 KLD

Water Requirement

S. No.	Description	unit/Area (in m^2)	Total Occupancy	Rate of water demand (lpcd)	Total Fresh Water (KD)	Total Flushing/Recycled water (KLD)	Total Water Requirement (KLD)

1.	**Residential**	1803 units	9015	*Fresh Water @ 65 LPCD* *Flushing Water @ 21 LPCD*	586	189	775
2.	**Staff (Residents + Primary school + Club + Commercial + Nursinghome)**	450 + 586 + 131 + 1409 + 28	2604	*Fresh Water @ 30 LPCD* *Flushing Water @ 15 LPCD*	78	39	117
3.	**Visitors (Residents + Club + Commercial + Nursinghome)**	902 + 306 + 3288 + 55	4551	*Fresh Water @ 5 LPCD* *Flushing Water @ 10 LPCD*	23	46	69
4.	**Nursing Home**		20	*Fresh Water @ 238 LPCD* *Flushing Water @ 102 LPCD*	5.0	2.0	7.0
5.	**Local shop and milk parlor**		209	*Fresh Water @ 30 LPCD* *Flushing Water @ 15 LPCD*	6.0	3.0	9.0
Total Domestic water					**698**	**279**	**977**
	Horticulture and Landscape development	1,52,956 sqm		3 l/sqm		460	460
	DG Sets Cooling (Residential)	(1x150KVA+ 2x125 KVA+ 1x500 KVA)		0.9 l/KVA/Hr (0.9 l/KVA/6)		5	5
	DG Sets Cooling (Commercial)	1x1000 KVA		0.9 l/KVA/10		9	9

			698 KLD	**753 KLD**	**Grand Total = 1451 KLD**

Waste water Details

S. No.	Water/ Waste water Details:	Quantity
1	Fresh Water- Domestic Use	698 KLD
2	Flushing Water	279 KLD
3	Horticulture / Landscape	460 KLD
4	Total water requirement	1451 KLD
5	D G Set Cooling	14 KLD
5	Waste water	928 KLD
6	STP capacity	1100 KLD
7	Water Source	Ground Water

Solid waste generation

S.No.	Particulars	Population	Waste generated in kg/day
1.	Residential (@0.5kg/day)	9224	4612
2.	Visitors (@0.15kg/day)	4190	628.5
3.	Staff (@ 0.25kg/day)	2882	720
Total Solid waste generated			Approx. 5960 kg/day
Horticulture Waste (@ .0037kg/sqm/day)			570 Kg/Day
E-Waste (0.15 kg/C/Yr) Considering residential and staff population			5 Kg/Day
STP Sludge			35 kg/day (dry weight)
Biomedical waste			33.35 kg/day

Parking details

Required Parking	
According to MoEF norms: @ 1 ECS for 100 m^2 FAR area (44,266 /100) @ 1 ECS for 100 m^2 FAR area for commercial (83,264.37/100)	**442 ECS** **832 ECS**
Total Required Parking	**1277 ECS**

Parking Space Available	
Proposed stilt parking	@ 30 m^2/ ECS (9053/30)= 302 ECS
Open Parking	@ 25 m^2/ ECS (25,000/25) = 1000 ECS
Total Proposed Parking	**1,302 ECS**
Individual parking spaces are provided inside the plots and Row Houses for Parking	

Power Requirement

Power requirement	Power requirement: 8078kVA	
Source of power and supply	MPSEB (Madhya Pradesh State Electricity Board)	
Backup Power supply DG sets of capacity	1900 KVA (D.G. Sets ï 1x1000 KVA+ 1x150KVA+ 2x125+ 1x500)	
Location of DG set	Open	
Nos.	**Capacity of DG set (KVA)**	**Stack Height Provided (m)**
5	1900	6.0 m + Building Height

The case was presented by the PP and their consultant wherein in it was observed that the total fresh water requirement is 698 KLD and for conservation of water, dual plumbing is proposed. After presentation PP was asked to submit response on following quarries:

1. Submit CGWB permission for abstraction of ground water as per OM of SEIAA no. 4253 dated 03/08/2015.
2. Submit permission of concerned authority for disposal of excess treated water through municipal drain as per OM of SEIAA no. 4253 dated 03/08/2015.

12. <u>Case No. - 4629/15 Smt. Meena Agarwal W/o Shri Sanjay Kumar Agrawal, Agrawal House, 5, Yashwant Colony, Indore (MP)-452001</u> ***<u>Prior Environment Clearance for Sanjana Park-II (Group Housing Project) at Khasra No.-478/4/1 to 478/9 & 474, Village-</u>***

Rau, Tehsil-Rau, District-Indore (MP) Total Land Area - 26690, Build up Area -52025 Sqm.

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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.

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 monthôs time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

13. **Case No. 4155/15 Mr. Ashok Verma, Project-In-Charge, Modi Mansion, 1st Floor, EB-250, Scheme No. 94, Opp. Bombay Hospital, Ring Road, Indore (MP)-452002** ***Prior Environment Clearance for approval of proposed Construction of residential unit "Saptrishi Avenue" at Khasra no.-27/2/1, 29/1, & 31/2/1,Village-Bhangarh, Tehsil-Indore, District-Indore (MP) Total Plot Area – 21180.00 Sqm Permissible Ground Coverage – 6034.80 Aqm (30%) Built Up Area- - 31770 Sqm.*** **For-Building Construction.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th 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 housing project ñSaptrishi Avenueò is promoted by M/s B.S.M. Shelter Estate India Pvt. Ltd. The project will constitute of 4 residential blocks comprising of 528 dwelling units (1 BHK: 144 nos., 2 BHK: 360 nos., 3 BHK: 24 nos.) and EWS block (24

dwelling units). The proposed project is coming up at village Bhangarh, Tehsil & District-Indore.

DESCRIPTION OF THE PROPOSED PROJECT:

	Details
Name of project	"SAPTRISHI AVENUE"- Residential housing project
Address	Khasra No 27/2/1,29/1,31/2/1 at Village Bhangarh, Tehsil & District-Indore, M.P.
Applicant	B.S.M. Shelter Estate India Pvt. Ltd., Modi Mansion, 1st Floor, EB-250 Scheme No. 94, Opp. Bombay Hospital, Ring Road,Indore (M.P.)
Name of the proponent	Mr. Ashok Verma, Project Incharge/ Authorized Signatory
S. No. in Schedule	8(a) {Building and Construction projects ≥ 20,000 sq. m. and <1,50,000 sq. m. of built-up area }
Category of project	B2
Plot area	21,180.00 sq. m.
Surrendered area	1064 sq. m.
Net Planning Area	20,116 sq. m.
Built up area	31,770 sq. m.
Ground coverage	Permissible- 30% (6034.80 sq.m.) Proposed - 26.17% (5263.23 sq.m.)
Green Area	23.20 % (4868.14 sq. m.)
Project facilities	4 residential blocks comprising of 528 dwelling units (1 BHK: 144 nos., 2 BHK: 360 nos., 3 BHK: 24 nos.) and EWS block (24 dwelling units)
Population	2760
Parking facilities	332 Cars
Water requirement & source	Total Water Demand : 270 KLD Fresh water : 189 KLD Treated water : 81 KLD
Sewage Treatment & disposal	STP of 300 KLD Based on FAB technology
Solid waste generation	1542 kg/day
Power requirement & source	1495 KW

	Source: MPSEB
Emergency back up	2 nos. of 82.5 kVA DG sets

WATER REQUIREMENT:

Operation Phase: The total water demand during operational phase is estimated as 404 KLD {@135 LPCD} as per CPHEEO standards (270 KLD fresh water + 134 KLD treated water for flushing, landscaping). The fresh water demand is proposed to be met through municipal water supply. Application for the same has been submitted and the approval of the same is expected soon.
Water conservation techniques such as use of dual flushing fixtures, low flow faucets, showerheads are envisaged for the project (as recommended by Ministry of Environment, Forests & Climate Change), thereby reducing the total water demand to 270 KLD (189 KLD fresh water + 81 KLD treated water for flushing, landscaping). Thus, the total water demand will be reduced by 33%

WASTE WATER MANAGEMENT:
The waste water generated to the tune of 229 KLD will be treated in STP based on FAB technology of capacity 300 KLD (considering 20% additional load). The treated waste water will be utilized for flushing (75 KLD), landscaping (6 KLD)

RAIN WATER HARVESTING:

The storm-water from roof-top, paved surfaces and landscaped surfaces will be properly channelized to the rain-water harvesting sumps through efficient storm water network. The storm water drain has been designed to cater to the flow during peak intensity of rain (50 mm/hr). The water recharge structure has also been designed for peak intensity and for maximum capture of surface run-off. The rain-water harvested will be used for ground water recharge. The storm-water drains will be cleaned in the pre-monsoon phase so that the possibility of the groundwater pollution & water logging can be minimized / avoided.
The details are tabulated as under:

Design Parameters	
Average annual rainfall	1062 mm

Peak intensity of rainfall	50 mm/hr
Details of structures	
Number of structures	3
Capacity of each structure	41 cu. m.
Annual recharge (max)	17295 cu. m.

POWER REQUIREMENT:

The estimated electrical load is 1495 KW. There will be provisions of power back up to common areas and essential services through 2 DG sets of cumulative capacity 165 kVA (82.5 kVA- 2 nos). The fuel requirement is estimated as 28.6 l/hr (@14.3 ltr/hr/DG set). DG sets conforming to the CPCB standards will be deployed. D.G. set will be provided with effective stack height as per the norms of CPCB above the roof of the D.G. house. Low sulphur content fuel (HSD - Sulphur content 0.05%) will be used.

PARKING NEEDS:

The parking needs as per the T&CP approval is 332 ECUs

SOLID WASTE MANAGEMENT:

The total solid waste generated during operational phase is estimated as 1542 kg/day. The solid waste will comprise biodegradable waste e.g. domestic waste, food waste, horticultural waste etc. and recyclable waste, like plastic, paper etc. For estimating the quantum of waste following assumptions are taken into consideration.

GREENBELT DEVELOPMENT:

An area of about 23.20% (4868.14 sq.m.) will be under landscape. About 315 trees will be planted along the periphery and road side.

The case was scheduled for presentation in the 269th SEAC meeting dated 29/02/2016 but the same was deferred for the presentation on 01/03/2016 on the request of PP.

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

1. Submit permission of Municipal Corporation for water supply as per OM of SEIAA no. 4253 dated 03/08/2015.
2. Submit permission of concerned authority for disposal of municipal solid waste as per OM of SEIAA no. 4253 dated 03/08/2015.
3. Disposal plan for excess treated water and if
   (a) The disposal is through municipal drain submit permission of concerned authority as per OM of SEIAA no. 4253 dated 03/08/2015 and
   (b) The disposal is in the nearby natural drain please provide the details of water body where this drain ultimately meets.

4. 4.5 meter wide roads are to redesigned and constructed with width of 6.00 meters for which PP gave his consent. PP has to submit an affidavit for above commitment.

R.B. Lal
Chairman