

The 277th meeting of the State Expert Appraisal Committee (SEAC) was held on 31st May, 2016 under the Chairmanship of Dr. R.B. Lal for wherein inspection reports of inspections carried out by SEAC members and query responses submitted by PP/ Files received from SEIAA were discussed. The following members attended the meeting-

1. Shri K. P. Nyati, Member
2. Dr. U. R. Singh, Member
3. Dr. Mohini Saxena, Member
4. Dr. Alok Mittal, Member
5. Shri R. Maheshwari, Member

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

1. **Case No.- 2552/2015 Shri Ajay Kumar Tiwari, EE, Div. No.-4, M.P. Housing & Infrastructure Development Board, 1st Floor, Satellite Plaza, Ayodhya Nagar, Bhopal-462041 (M.P.) Proposed "Group Housing Project - "Suramya Parisar" at Phase-III, Ayodhya Extension, Opp. Rajiv Nagar, Distt-Bhopal (M.P.) Total Plot Area-1,11,400.00 m² Build up Area-2,39,636.20 m². (EIA Consultant: Ascenso Enviro Pvt Ltd, Noida)**

This is a building construction and area township project covered as item 8 (b) in the Schedule of EIA Notification hence requires prior EC from SEIAA before commencement of activity at site. The application was forwarded by the SEIAA to SEAC for scoping so as to determine TOR for the project to carry out EIA and prepare EMP for the project. The salient features of the project were presented by the PP and their consultant. The project is proposed on a plot area of 1,11,400.00 m² with total built-up area of 2,39,636.20 m².

INFRASTRUCTURAL DETAILS

1.	Category of the Project	8 (b)
2.	Name and Location of the Project	Proposed Group Housing Project Suramya Parisar at Phase-III, Ayodhya Nagar Extension, opp. Rajiv Nagar, Bhopal, M.P.
3.	Developers of the project	Madhya Pradesh Housing and Infrastructure Development Board

4.	Coordinate of project site	Latitude: 23°15'44.67"N Longitude: 77°28'27.06"E
5.	Total Plot Area	1, 11,400.00 sq.m.
6.	Built-up Area (FAR + Non-FAR)	2, 39, 636.20 sq.m.
7.	Total Population	8690
8.	Total Water Consumption & Source	748 KLD, <i>Source: Nagar Nigam, Bhopal</i>
9.	Total Freshwater Requirement	494 KLD
10.	STP Capacity & Technology	945 KLD, <i>Technology: MBBR</i>
11.	Power Requirement & Source	4,863 KVA
12.	Power Backup	2 DG sets of total capacity of 1,100 KVA (1 x 600 + 1 x 500)
13.	Solid Waste Generated	3,639.9 kg/day
14.	No. of RWH Pits	9 Pits
15.	Height of Tallest Building	33 mtrs.

DETAILED AREA STATEMENT

S. No.	Particulars	Area in sq.m.
1	Total Plot Area	1,11,400.00
2	Permissible Ground Coverage@ 30%	33,420.00
3	Proposed Ground Coverage@25.5% of Plot Area	28,420.00
	• Residential (Dwelling Units + ROW Houses)	24,555.00
	• Convenient Shopping/Mixed use	1,890.00
	• Community center	810.00
	• Casual shopping	810.00
	• Society office	850.00
	• Spiritual center	215.00

		100.00
4	Permissible FAR @ 2 of Plot Area	2,22,800.00
5	Proposed FAR @1.39 of Plot Area	1,55,431.00
	• Residential FAR(Dwelling Units + ROW Houses)	1,46,405.00
	• Convenient Shopping/Mixed Use	6,300.00
	• Community Centre	1,561.00
	• Casual Shopping	
	• Spiritual Centre	850.00
	• Society Office	
		100.00
		215.00
6	Services Area (Lift, lobbies,& staircases)	25,427.20
7	Stilt Area	39,528.00
8	Podium Area	19,250.00
9	Landscape Area@21.40% of Plot Area	23,809.00
10	Built-up Area (FAR + Services+ Stilt+ Podium)	2,39,636.20

LAND COVER PATTERN AND COVERAGE

S.No.	Class Names	Area (Ha)	Percentage
1	Built Up	3,910.17	10.52
2	Agricultural Land	10,991.55	29.58
3	Fallow Land	3,877.17	10.43
4	Open Forest/Jungle	6,468.62	17.41
5	Open Scrub	5,952.51	16.02
6	Vegetation/Golf Course	828.49	2.23

7	Waste Land	3,479.43	9.36
8	Water bodies/Lakes/Reservoir	1,119.82	3.01
9	Industrial Area	528.62	1.42
Total		37,156.38	100.00

DETAILS OF WATER REQUIREMENT

S. No.	Description	Population/ Area m ² /KVA	Unit in water consumption (liters)	Total water required (KLD)	Water requirement for domestic use (KLD)	Flushing/ Recycled water (KLD)
1	Main Dwelling units	6,800	86	584.80	442.00	142.80
2	Row House	280	86	24.08	18.20	5.88
3	Commercial Population	902	45	40.59	27.06	13.53
4	Floating Population	708	15	10.62	6.37	4.24
5	Horticulture	23,809.00 m ²	3	71.42	--	--
6	DG Sets cooling	(1 x 500 + 1 x 600 KVA)	1	8.80	--	--
7	Fire Fighting	--	1% of water requirement	7.40	--	--
	TOTAL	8,690	í .	747. 70	493.63	166.45
				say 748	say 494	say 166

Details	Water (KLD)
Water requirement for domestic purpose	494
Wastewater generation from domestic use (@ 80% of domestic water requirement)	395

Water requirement for Flushing Purpose	166
Wastewater generation from Flushing (@ 100% of flushing requirement)	166
Total Wastewater generated	395+166 = 561 KLD

PROPOSED SOLID WASTE GENERATION RATE

<u>S. No.</u>	<u>Category of Solid Waste</u>	<u>Waste Generation Rate</u>	<u>Total Population</u>	<u>Waste Generated</u>
<u>1</u>	<u>Residential Refuse</u> <u>(Residents+ Visitors</u>	<u>0.3 to 0.6 kg/cap/day</u>	<u>7,788</u>	<u>3,504.6</u>
<u>2</u>	<u>Commercial Refuse</u>	<u>0.1 to 0.2 kg/cap/day</u>	<u>902</u>	<u>135.3</u>
	<u>TOTAL</u>			<u>3,639.9</u> <u>kg/day</u>

The case was presented by PP and their consultant for TOR in the 192nd SEAC meeting dated 08/05/2015 wherein based on the submissions made by the PP and the presentation the Committee recommended for inclusion of following points to be addressed in the EIA / EMP in addition to standard TOR:

- Provision of mobile type of toilets and shelter for the project workers to be made.
- Concept and design of STP has to be finalized and presented.
- Plantation scheme with provision of double row peripheral plantation to be furnished.

The EIA was presented by the PP and their consultant in the 271st SEAC meeting dated 02/03/2016 meeting wherein PP and their consultant were present. After presentation, PP was asked to submit response on following quarries:

1. During presentation PP informed they have been exempted for providing housing for EWS by T&CP as the same have been provided in other nearby project. PP was asked to provide complete details of above with exemption letter from providing housing for EWS from concerned authority.

2. Management plan of excavated soil during construction phase.
3. A commitment from PP that fuel and other facility to labors will be provided during construction phase.
4. Details about proposed batching plant and plan of storage of raw materials.
5. Details about peripheral plantation and detailed plantation scheme.
6. Children's play area should be marked on layout map and submitted.
7. Revised project schedule chart because as per submitted chart many activities have started.
8. Revised plan of Role & Responsibility of Developer as per existing designation in the organization.
9. Revised parking plan.

PP has submitted the reply of above issues raised during the 271st SEAC meeting dated 02/03/2016 vide letter no. 1417 dated 19/05/2016 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 494 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 1263 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.

13. The commitments / plans submitted by PP vide their letter no. 1417 dated 19/05/2016 should be complied with.

2. **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 ó Devki Nagar of M.P. Housing & Infrastructure Development Board.
Total Plot Area	: 41080.00 Sq. Mt.
Proposed BuiltóUp 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 ó 6.4 Km away from site
Air Port	: Bhopal Airportó 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 ó Nishatpura, Tehsil ó Huzur, Distt. ó 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 (liters)	Total water Requirement (liters)
<i>A</i>	<i>Fresh Water Requirement</i>			
1	Apartments/Flats & Duplex	1736	90	156240
2	EWS	144	90	12960
3	Maintenance Staff	10	20	200
	<i>Sub Total of A</i>			<i>169400</i>
<i>B</i>	<i>Flushing Water</i>			
1	Apartments/Flats & Duplex	1736	45	78120
2	EWS	144	45	6480
3	Maintenance Staff	10	25	250
	<i>Sub Total of B</i>			<i>84850</i>
<i>C</i>	<i>Treated Effluent Water Requirement – Misc. Uses</i>			
1	Landscaping	10300 Sq.mtr.	5	51500
2	Misc. & Other Uses			25000
	<i>Sub Total of C</i>			<i>76500</i>
	<i>Total water requirement (A+B+C)</i>			<i>330,750</i>
				Or says 331 KLD

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

	<i>Sub Total of A</i>			143990
<i>B</i>	<i>Flushing Water</i>			
1	Apartments/Flats & Duplex	78120	1	78120
2	EWS	6480	1	6480
4	Maintenance Staff	250	1	250
	<i>Sub Total of B</i>			84850
	<i>Total waste water (A+B)</i>			228840
		SAY CAPACITY OF STP ~		229 KLD
		Proposed STP CAPACITY		250 KLD

<i>Total Daily Water requirement</i>	331 KLD
Treated Effluent from STP @ 90% of STP Capacity	206 KLD
<i>Fresh Water required from municipal Water</i>	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 in the 270th SEAC meeting dated 01/03/2016. 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.
2. Submit revised parking plan as committee suggested that minimum 300 ECS should be provided.
3. Financial outlay for plantation should be enhanced and submitted.

PP has submitted the copy of online application made for wild life clearance with proposal no. FP/MP/Others/613/2016 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. PP has further informed that there is no case pending in the NGT. PP has also submitted the reply of above issues raised during the 270th SEAC meeting dated 01/03/2016 vides letter no. 1766 dated 05/05/2016 which was placed before the committee for appraisal.

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 331 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 734 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.

13. The grant of Environmental Clearance should be subject necessary Wild Life Clearance from NBWL to be obtained by PP.

3. Case No. - 4931/2016 Sh. Suresh Kumar CEO, Gwalior Development Authority, Vikas Bhawan , 1 Ravi Nagar Gwalior (MP)- 474002 Construction of affordable Housing Project “Atal Ashray Yojna”, at Survey No. – 322, 323, 324,325, 326, Vill. – Jazderua Kalan,Th.- Gwalior, Distt. - Gwalior, M.P. Total Project Area – 24750 Sqm., Build up Area – 37124 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	Environment Clearance of Affordable Housing Project “Atal Ashray Yojna” at Survey No. 322, 323, 324, 325 326 at Village- Jaderua kalan, District- Gwalior, Madhya Pradesh, India.
Type of Project	Building and large construction project
Category	B, Type- 8(a)
Elevation (m)	194 m above mean sea level
Latitude and Longitude	26°15'23.35"N, 78°14'15.32"E
Current status of land	Residential Landuse as per GDA Master Plan, 2021
Type of facilities	Housing with basic Facilities
Nearest Highway	Outer circular road: 800 m (S) NH-3(Mumbai-Agra) : 11 km (S) NH-92 (Bhongaon- Gwalior): 2.5 km (W)
Nearest railway station	Birla nagar railway station: 5 km (W) Gwalior junction railway station: 7 km (W)
Nearest airport	Raj mata Vijayraje Scindia air terminal : 4 km
Rivers/Lakes	Morar River : 450 m (E) Shank River : 18 km (W)
Seismic zone	Seismic Zone-II as per BIS 2002 map.

Defense installations	Gwalior Cantonment Area: 3.5 km (S) Maharajpur Air Force Station: 4 km (S)
-----------------------	---

Area Statement

S. No	Items	Details
1.	Type of Building	Residential
2.	Net plot Area	24,750 sq mt
3.	Ground Coverage	Permissible: 7,425 sq mt (30%) Proposed: 7,209 sq mt (29.1%)
4.	FAR	Total Permissible FAR (@ 1.50) = 37,124 m² Proposed FAR: 37,124 m² For Residential Development = 23092.9 m ² For convenient shops, health center and school building= 14032.1m ²
5.	Built up area (as per MoEF)	37,124 m²
6.	Total open area	17,541 sq mt (70.9% of net plot area)
7.	Internal roads and Paved area	5,680 sqm (23% of net plot area)
8.	Green Area	Proposed: 2,780 sq mt (11.23 % of net plot area)
9.	No. of Trees (Required-1 Tree/100 sqm of open area)	Required: 175 Trees Proposed: 200 Trees
10.	Number of floors	G + 3 floors
11.	Parking facilities	Not Required
12.	Power requirement & source	1500 kVA Source : Madhya Pradesh KshetraVidyutVitran Company Limited
13.	Power Backup	1 DG set of 50 KVA
14.	Water Requirement and Source	Fresh Water Demand : 406 KLD Recycled Water: 24 KLD Total Water Demand : 430 KLD Source: Ground water
15.	Total Dwelling Units	576 Units (EWS Unit 192 LIG Unit 384)
16.	Estimated Population (fixed + floating)	Residential ó 2880 (@5 person per unit) School ó 200 Health Center ó 160 Convenient Shops ó 20 Visitors ó 288

17.	Height of the Building	G + 3 (12 m approx.)
-----	-------------------------------	----------------------

Development mix of the project

Sl no	Building type	No of towers	No of units per floor	No of floors	Total no of units
1.	LIG block	6	16	4	384
2.	EWS block	3	16	4	192
					Total no of units = 576

Water Balance Operation Phase

S. No.	Description	Total Occupancy	Rate of water demand (lpcd)	Total Water Requirement (KLD)
1	EWS /LIG (576 units)	2880	135	389
2	School	200	45	9.0
3	Health Centre			
i	Staff	10	45	0.5
ii	Visitors	150	15	2.3
4	Convenient Shops	20	45	0.9
5	Visitors @10%	288	15	4.3
Total Domestic water				406
6	Horticulture and Landscape development	2780 sqm	5 l/sqm	14
7	Vehicle, Road washing and other low end uses			10
Total Water Requirement				430

Solid waste Generation

S.No.	Particulars	Population	Waste generated in kg/day
1.	Residential (@0.5kg/day)(including LIG)	2880	1440
2.	staff (@0.15 kg/day)	230	35
3.	Visitors (@0.15kg/day)	438	68
Total Solid waste generated			Approx. 1543 kg/day
Horticulture Waste (@ .0037 kg/m ² /day)			11 Kg/Day
E-Waste (0.15 kg/C/Yr)			< 1 Kg/Day

The case was presented by the PP and their consultant in the 271st SEAC meeting dated 02/03/2016 wherein in it was observed that the total fresh water requirement is 406 KLD and for conservation of water committee advised the PP should explore the possibility of providing dual plumbing. After presentation PP was asked to submit response on following queries:

1. Revised plantation scheme with details of peripheral plantation.
2. Revised parking plan.

PP has submitted the reply of above issues raised during the 271st SEAC meeting dated 02/03/2016 vides letter 25/04/2016 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 406 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 200 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. Revised plantation scheme and Revised parking plan, submitted by PP vides their letter dated 25/04/2016 should be implemented.

4. Case No. - 4976/2016 Shri Anurag Shrivastav, Executive Engineer, M.P. Housing and Infrastructure Development Board, Housing Board Plaza, Shopping Complex, A.B. Road, Indore (MP)-452011 Prior Environment Clearance for proposed High Rise Development (Apparel Park & Residential Block) Land Area-12747.60 sq.mt., Built-up Area-53157.6 sq.mt., at Khasra No.-148, 148/1653 & 151/1654, Village-Snehlaganj, Tehsil-Indore, District-Indore (MP)For Building Construction. Env. Con.Mantras Green Resources Limited, Nasil. Case forwarded by SEIAA vide letter No. 11281-82/ dtd. 16-02-16 rec. 19/02/16

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.

Sr. No.	Particular	Commitment On
1.	Name of Project	Proposed High Rise Development (Apparel Park & Residential Block) by Madhya Pradesh Housing and Infrastructure Development Board
2.	Name, contact number & address of Proponent	Shri. Anurag Shrivastav Executive Engineer , Dn.Indore, Housing Board, Plaza (Shopping Complex), A.B Road, Indore,

		Madhya Pradesh.
3.	Name, contact number & address of Consultant	<p>Mrs. Vaishali H.Tambat Executive Director Mantras Green Resources Ltd. Address: Flat no. 104, A wing Shantidham, Infront of Triveni Gardens, Adharwadi Jail Road, Adharwadichowk, Kalyan (W) -421301. Maharashtra, India. Mobile Number: 9867851056 Email ID: vaishali@mantrasresources.com</p>
4.	Accreditation of consultant (NABET Accreditation)	<p>Sr. No. 104 in List of Accredited Consultant Organizations/ Rev. 39/08 March, 2016 for Building and large construction projects including shopping malls, multiplexes, commercial complexes, housing estates, hospitals, institutions etc.</p>
5.	Type of project: Housing project / Industrial Estate / SRA scheme / MHADA / Township or others	<p>Apparel Park (Commercial) and Residential Blocks</p>
6.	Location of the project	<p>The project is located at KH. No. 148, 148/1653 & 151/1654, Snehalataganj, Indore Tehsil, & District, Madhya Pradesh</p>
7.	Whether in Corporation / Municipal / other area	<p>Indore Municipal Corporation</p>
8.	IOD/IOA/Concession document or any other form of document as applicable(Clarifying	<p>Approvals Received :</p> <p>“ Building Layout Sanction by Deputy Director, Town and Country Planning Indore(M.P.) vide letter no. 10210 dated 29.12.2015</p> <p>“ High rise clearance vides letter No. 6381/ High rise/</p>

	its conformity with local planning rules & provision)	<p>NGN/2015 dated 7.8.15 for height 24.0 mt and 42.0 mt.</p> <p>“ Water NOC vide Letter No. 4897/15-16 Dated 28.12.2015</p> <p>“ Solid waste Disposal NOC vide letter no. 2294 dated 19.10.2015 from Health Officer, Nagar Palik Nigam, Indore</p> <p>“ Sewerage NOC from Drainage Department , Nagar Palik Nigam, Indore vide Letter No. 1556 Dated 18.1.2016</p>																											
9.	Note on the initiated work (If applicable)	No. Work is not initiated at site Ref Declaration Letter by MP Housing and Infrastructure Development Board, Indore, Madhya Pradesh																											
10.	Area Statement	<p>The Area Statement for proposed project :</p> <table border="1" data-bbox="623 940 1450 1959"> <thead> <tr> <th data-bbox="623 940 691 1077">Sr</th> <th data-bbox="691 940 1114 1077">Items</th> <th data-bbox="1114 940 1450 1077">Details (in Sq.mt.)</th> </tr> </thead> <tbody> <tr> <td data-bbox="623 1077 691 1150">1</td> <td data-bbox="691 1077 1114 1150">Total Plot Area (Sq. m)</td> <td data-bbox="1114 1077 1450 1150">12,747.60</td> </tr> <tr> <td data-bbox="623 1150 691 1224">2</td> <td data-bbox="691 1150 1114 1224">Area under Road Widening</td> <td data-bbox="1114 1150 1450 1224">969.00</td> </tr> <tr> <td data-bbox="623 1224 691 1297">3</td> <td data-bbox="691 1224 1114 1297">Net Planning Area</td> <td data-bbox="1114 1224 1450 1297">11,778.60</td> </tr> <tr> <td data-bbox="623 1297 691 1486">4</td> <td data-bbox="691 1297 1114 1486">Permissible Ground Coverage (30% of net plot Area)</td> <td data-bbox="1114 1297 1450 1486">3,533.58</td> </tr> <tr> <td data-bbox="623 1486 691 1623">5</td> <td data-bbox="691 1486 1114 1623">Permissible FAR (on net planning area X 2)</td> <td data-bbox="1114 1486 1450 1623">23,557.20</td> </tr> <tr> <td data-bbox="623 1623 691 1759">6</td> <td data-bbox="691 1623 1114 1759">On area under Road widening (969.00 X 2 X 2)</td> <td data-bbox="1114 1623 1450 1759">3876.00</td> </tr> <tr> <td data-bbox="623 1759 691 1833">7</td> <td data-bbox="691 1759 1114 1833">Open Area(10%)</td> <td data-bbox="1114 1759 1450 1833">1,180</td> </tr> <tr> <td data-bbox="623 1833 691 1959">8</td> <td data-bbox="691 1833 1114 1959">Total permissible Built-Up area</td> <td data-bbox="1114 1833 1450 1959">27,433.20</td> </tr> </tbody> </table>	Sr	Items	Details (in Sq.mt.)	1	Total Plot Area (Sq. m)	12,747.60	2	Area under Road Widening	969.00	3	Net Planning Area	11,778.60	4	Permissible Ground Coverage (30% of net plot Area)	3,533.58	5	Permissible FAR (on net planning area X 2)	23,557.20	6	On area under Road widening (969.00 X 2 X 2)	3876.00	7	Open Area(10%)	1,180	8	Total permissible Built-Up area	27,433.20
Sr	Items	Details (in Sq.mt.)																											
1	Total Plot Area (Sq. m)	12,747.60																											
2	Area under Road Widening	969.00																											
3	Net Planning Area	11,778.60																											
4	Permissible Ground Coverage (30% of net plot Area)	3,533.58																											
5	Permissible FAR (on net planning area X 2)	23,557.20																											
6	On area under Road widening (969.00 X 2 X 2)	3876.00																											
7	Open Area(10%)	1,180																											
8	Total permissible Built-Up area	27,433.20																											

		<table border="1"> <tr> <td>9</td> <td>Apparel Park (Ready Made Garment manufacturing park)</td> <td>10,393.40</td> </tr> <tr> <td>10</td> <td>Residential Area</td> <td>29,452.28</td> </tr> <tr> <td>11</td> <td>Basement area (Lower basement of Residential Block + Upper basement of Commercial Block)</td> <td>13,312.08</td> </tr> <tr> <td>12</td> <td>Total Construction Area</td> <td>53,157.76</td> </tr> </table>	9	Apparel Park (Ready Made Garment manufacturing park)	10,393.40	10	Residential Area	29,452.28	11	Basement area (Lower basement of Residential Block + Upper basement of Commercial Block)	13,312.08	12	Total Construction Area	53,157.76
9	Apparel Park (Ready Made Garment manufacturing park)	10,393.40												
10	Residential Area	29,452.28												
11	Basement area (Lower basement of Residential Block + Upper basement of Commercial Block)	13,312.08												
12	Total Construction Area	53,157.76												
11.	Estimated cost of the project	100 crores												
12.	No. of building & its configuration(s)	<p>The project involves the construction:</p> <table border="1"> <thead> <tr> <th>Items</th> <th>Details (in Sq.mt.)</th> </tr> </thead> <tbody> <tr> <td>Base ment</td> <td>2 basement common to both buildings</td> </tr> <tr> <td>Resid ential</td> <td>Block A : Stilt + 14 Floors + Service Floor – 3 BHK (98 Flats) Block B: Stilt + 14 Floors + Service Floor – 2 BHK (94 Flats) Height : 42.0 mtrs.</td> </tr> <tr> <td>Com merci al</td> <td>Apparel Park (Proposed Readymade Garment Manufacturing Park) in Gr. Floor to 5th Floor and upper residential Floor up to 7th Floor Height : 24.0 mtrs</td> </tr> </tbody> </table>	Items	Details (in Sq.mt.)	Base ment	2 basement common to both buildings	Resid ential	Block A : Stilt + 14 Floors + Service Floor – 3 BHK (98 Flats) Block B: Stilt + 14 Floors + Service Floor – 2 BHK (94 Flats) Height : 42.0 mtrs.	Com merci al	Apparel Park (Proposed Readymade Garment Manufacturing Park) in Gr. Floor to 5 th Floor and upper residential Floor up to 7 th Floor Height : 24.0 mtrs				
Items	Details (in Sq.mt.)													
Base ment	2 basement common to both buildings													
Resid ential	Block A : Stilt + 14 Floors + Service Floor – 3 BHK (98 Flats) Block B: Stilt + 14 Floors + Service Floor – 2 BHK (94 Flats) Height : 42.0 mtrs.													
Com merci al	Apparel Park (Proposed Readymade Garment Manufacturing Park) in Gr. Floor to 5 th Floor and upper residential Floor up to 7 th Floor Height : 24.0 mtrs													
13.	Occupancy	<p>Residential: 1238 nos.</p> <p>Commercial: 577 nos.</p> <p>Total: 1815 nos.</p>												
14.	Height of the building(s)	<p>Maximum height of Residential building = 42.0 m.</p> <p>Maximum height of Apparel Park: 24.0 m.</p>												

15.	Right of way (Width of the road from the nearest fire station to the proposed building(s))	36.0 mt existing wide road and 7.5 mt road all around the building.				
16.	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement is 7.5 m.				
17.	Total Water Requirement	<p>Total Water Requirement: 226 KLD</p> <p>Domestic Water Requirement: 115 KLD</p> <p>Flushing : 79 KLD</p> <p>Gardening: 1 KLD</p> <p>Car wash, Road Cleaning and Misc: 32 KLD</p> <p>Total Sewage Generated: 182 KLD</p> <p>Treated Water available for recycling : 163 KLD</p> <p>Recycled Water for Flushing and Gardening: 112 KLD</p> <p>Excess treated sewage drained to sewer line: 51 KLD</p> <p>During construction phase, sewage will be treated and disposed through septic tanks followed by soak pits.</p> <p>The wastewater in operation phase will be treated up to tertiary level in a STP of 220 KLD capacity and 112 KLD treated sewage will be used for toilet flushing and horticulture and excess will be disposed to existing sewer line.</p>				
18.	Rain Water Harvesting (RWH)	Type of Area	Area (in m²)	Coefficient of run-off	Peak rainfall intensity during one hour of	Rain water harvesting potential/hour (in m³)

				rainfall (in m)		
		Roof-top area	3076.26	0.8	0.025	61.5
		Green Area	1180	0.1	0.025	3.0
		Paved area	3876	0.6	0.025	58.1
		Total storm water load on the site with per hour retention is				122.6
		Considering 15 minutes retention time, total storm water load				30.7
		Taking the radius as 0.6m and effective depth as 1.2 m, volume of a RWH pit (πr^2h)				9.0
		Hence no. of pits required in approx = Total storm water load considering 15 minutes retention time / Volume of a RWH pit				3
19.	Storm water drainage	<ul style="list-style-type: none"> Natural water drainage pattern: The storm water will be collected and conveyed through network of open drain system along the internal road as well as compound wall. Quantity of storm water: 0.74 m³/hr Size of SWD: 0.6 m wide and 0.45 m depth 				
20.	Sewage and Waste water	<ul style="list-style-type: none"> Sewage generation : 182 KLD Capacity of STP (KLD): Total capacity of STP is 220 KLD STP technology: MBBR 				
21.	Solid waste Management	The operations phase of the project the refuse generation rate as 0.5kg/Capita/day for residents, 0.25 Kg/Capita/day for staff and 0.15 Kg/Capita/day for visitors have been				

		considered.																	
		Nature and quantity	Bio degradable	463.8 kg/day															
			Recyclable	231.9 kg/day															
			Inert	77.3 kg/day															
			Total:	773 kg/day															
		Collection and disposal	Solid wastes generated will be segregated into biodegradable components and collected in separate bins. Sludge from STP will be used as manure in horticulture. Organic waste will be treated in Organic Waste conversion plant. The project is approved by Indore Municipal Corporation for the disposal of solid waste generated from the project site with ref.no. 229/2015. Annexure 4 NOC for Solid Waste Disposal																
		Recycling	Recyclable wastes comprising paper, plastic, glass etc. will be sent to prospective buyers.																
22.	<p>Green Belt Development</p> <p>Total RG area: On Ground 1177.86 sq.mt (10% of net Plot area)</p> <p>Number & list of trees species to be planted in the ground : 82</p> <p>List of Proposed Plantation for the scheme:</p> <table border="1"> <thead> <tr> <th>N o.</th> <th>Botanical Name</th> <th>Common Name</th> <th>Qty.</th> <th>Characteristics & Ecological Importance</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Michelia champaca</i></td> <td>Sonchafa</td> <td>3</td> <td>-Evergreen tree. -Fragrant flowers blooms in spring</td> </tr> <tr> <td>2</td> <td><i>Azadiracta indica</i></td> <td>Neem</td> <td>5</td> <td>-Fast growing tree grows up to 15-20 m height -Neem having antibacterial and antifungal activities -Used to control pests.</td> </tr> </tbody> </table>				N o.	Botanical Name	Common Name	Qty.	Characteristics & Ecological Importance	1	<i>Michelia champaca</i>	Sonchafa	3	-Evergreen tree. -Fragrant flowers blooms in spring	2	<i>Azadiracta indica</i>	Neem	5	-Fast growing tree grows up to 15-20 m height -Neem having antibacterial and antifungal activities -Used to control pests.
N o.	Botanical Name	Common Name	Qty.	Characteristics & Ecological Importance															
1	<i>Michelia champaca</i>	Sonchafa	3	-Evergreen tree. -Fragrant flowers blooms in spring															
2	<i>Azadiracta indica</i>	Neem	5	-Fast growing tree grows up to 15-20 m height -Neem having antibacterial and antifungal activities -Used to control pests.															

3	<i>Albizia Lebeck</i>	Shirish	4	<ul style="list-style-type: none"> - It is mainly cultivated for shade and fragrant cream colored flowers. - In ancient culture, the flowers decorated as a crown to welcome victorious soldiers.
4	<i>Bauhinia racemosa</i>	Apata	3	<ul style="list-style-type: none"> -Flowers rich in nectar and pollen attracts many varieties of butterflies and insects. -Leaves offered to each other during dushera
5	<i>Cassia fistula</i>	bahava	4	<ul style="list-style-type: none"> -Popular ornamental plant and grows in tropical and sub tropical areas. - Have big canopy and help to give cool shed and reduce heat island effect.
6	<i>Ailanthus excelsa</i>	Maharukh	3	<ul style="list-style-type: none"> -large deciduous tree, 18-25 m tall -Lepidopteron larvae feeds on the plant -Silk spinning moths lives on its leaves
7	<i>Ficus retusa</i>	Nandruk	5	<ul style="list-style-type: none"> - Rapidly growing, evergreen woody plant -Pest resistance plant -Religious plant in hindus
8	<i>Mimusops elengi</i>	Bakul	4	<ul style="list-style-type: none"> -Dense canopy provides cool shade. -sacred tree among hindus.
9	<i>Saraca asoka</i>	Sita asoka	4	<ul style="list-style-type: none"> -Grows good in tropical region. -Long living and evergreen plant.
10	<i>Neolamarckia cadamba</i>	Kadamb	5	<ul style="list-style-type: none"> -Globe shaped orange scented flowers -Caterpillar species use this plant as food plant
11	<i>Nyctanthes arbor-tritis</i>	Parijatak	5	<ul style="list-style-type: none"> -Flowers scented, small and attractive blooms in night. -Tree is large shrub & provides good shade.

12	<i>Largerstroemia flosregineae</i>	Tamhan	5	-Large evergreen shrub, - Colorful flowers grows in bunches blooms in summer
13	<i>Pongamia pinnata</i>	Karanj	3	-Used for biodiesel production. -dried leaves used as insect repellent.
14	<i>Murraya paniculata</i>	Kunti	4	-Tropical evergreen plant bearing small white scented flowers, Plant is host for citrus psyllid
15	<i>Gmelina arborea</i>	Shivan	2	-Fast growing deciduous tree -Seasonal flowers blooms in Feb.-April resistant to termites
16	<i>Caryota urens</i>	Fish Tail Palm	2	-This species is a solitary-trunked tree -Monocarpic Plant
17	<i>Putranjiva roxburghii</i>	Putranjiva	2	- Evergreen tropical tree, Coriaceous leaves - Flowers are fasciculate and usually small
Total			60	

List of Shrubs proposed:

No	Botanical Name	Common Name	Qty.	Characteristics & Ecological Importance
1	<i>Cassia auriculata</i>	Tarwad	4	-Evergreen shrub suitable for landscaping roadways and home garden - Host plant for butterflies
2	<i>Cassia tora</i>	Takala	5	-Plant grows wild and used as weed also -Medicinal plant
3.	<i>Plumbago zeylanica</i>	White plumbago	5	- Herbaceous plant -Plant extracts shows potent mosquito larvicidal activity.
4.	<i>Adhatoda vasica</i>	Adulsa	5	-Evergreen shrub grows up to 2-3 m

				-Medicinal plant
5.	<i>Vitex nigundo</i>	Nirgudi	3	-Plant having insecticidal activity. -Medicinal plant
	TOTAL		22	

23.

E
n
e
r
g
y

Power Supply:

Connected Load: 2, 949.36 kw

Maximum demand: 1,768.96 kw

S. No.	Area	Estimated Connected Load (kW)	Overall Max. Demand (kW)
1.	Commercial – 153553.28sqft (Refer Annexure - A)	1686.56	1011.96
2.	Residential (2-BHK,3-BHK) – 416620.6sqft (Refer Annexure - B)	1262.80	757.00
3.	Say (transformer selection for overall)		33/11 3.15 MVA-02 no.
4.	Distribution Transformer		11/.415KV-750 KVA-03 no. for commercial. 11/.415KV-750 KVA - 02 no. for Residential
5..	Say (DG set selection)	For commercial	1X1250 KVA, 1X250 KVA
		For Residential	2x1250 KVA

Energy saving measures:

- “ Compact Fluorescent lamps will be used in place of incandescent and Halogen lamps in all common areas and basement parking.
- “ PVC insulated copper conductor cable will be used for wiring purpose.
- “ Solar water harvesting systems and solar powered street lights shall be used to conserve Energy.
- “ Roof insulation shall be planned to conserve energy.
- “ Glazed glass of U-factor of 0.36 will be used in the project. This absorbs approximately 30% to 45% of the solar radiation heat incident on the glass surface, depending on the tint and thickness. These glass panes will have high light transmission, but low solar heat inflow. This will reduce

the quantity of heat flowing into the buildings, lessens cooling load and air conditioners and induces energy saving.

- Number and capacity of the DG sets to be used: Total No. of 4 DGs are proposed of total capacity 1x 250 KVA and 3x1250 KVA.

24. Environmental Management plan Budgetary Allocation:
During Construction Phase:

S.No	Particulars	Rs. Lakhs	Remarks
1	Sanitary Facilities to workers	5.0	Cost incurred during construction period
2	Erosion & Sediment Control measures	1.5	
3	Safe disposal of muck & excavated material	1.5	
4	Safe disposal of construction spoils (Bituminous, oil materials, spoiled cement, etc)	2.0	
5	Dust control / noise attenuation screens	2.0	
6	Sprinkler arrangement for dust control	1.0	
7	Environmental supervisor, external expertise, etc	2.0	
	Sub total	15	
1	Sewage Treatment Plant & Rainwater Harvesting	100	Capital cost for EMP
2	Solid Waste management	5.0	
3	Plantation & Landscaping	30.0	
4	DG set – Acoustic Enclosure & Stack	5.0	
5	Monitoring of Air, water, wastewater, soil, etc	5.0	
	Sub total	145	
1	Annual Maintenance of STP, DG sets, Greenbelt, landscapes, etc	25	Recurring cost during operation

Capital Cost of the EMP is Rs.145 Lakhs & Recurring Cost is 25 Lakhs

25. Traffic Management
Parking Statement -
For proposed Readymade Garments Manufacturing Park, per 50sq.m Built up area 1 car is required.
For Residential blocks, per 100 sq.m Built up area 1 car is required.

	Level	Required Car	Proposed Car	Proposed parking area	Required Equivalent	Provided equivalent
--	-------	--------------	--------------	-----------------------	---------------------	---------------------

			parking No's	parking no's	(Sq.m)	car space as per NBC/construction manual MoEF	car space (sq.m)
	Readymade Garment manufacturing park	Basement Parking Area (part upper basement)	1 parking per 50sq.m FAR	140	4,970 sq.m	Basement = 35 sq.m/car park Stilt= 30 sq.m/car park Open parking=	35.5
	Residential Block	Basement Parking Area (part Lower basement)	1 parking per 50sq.m FAR	201	Basement parking (5,180sq.m)	25 sq.m/car park	34.8
					Stilt parking (1,620sq.m)		30.2
		Stilt Parking					
	Total			341			
26.	Distance from Ralamandal Sanctuary	Ralamandal Sanctuary is situated at 11.28 km from project site.					

The case was presented by the PP and their consultant in the 274th SEAC meeting 12/04/2016 wherein it was observed that total fresh water requirements for the project is proposed as 115 KLD. It was also submitted by the PP during presentation that sprinkling systems and smoke detectors are proposed in readymade garments manufacturing unit. Committee after presentation and deliberations asked PP to submit clarification/information on following issues raised during discussion:-

1. Revised car parking plan for at least 250 residents excluding readymade garments manufacturing area parking which is to be calculated separately.
2. Environmental impacts of this project on nearby Khan River?
3. An inventory of existing trees with their management plan.
4. PPs commitment that air cooled ACs will not be provided in readymade garments manufacturing area as it has been mentioned in the documents.

5. Worst case scenario be studied and provided w.r.t. readymade garments manufacturing area for water demand and its treatment.

PP has submitted the reply of above issues raised during the 274th SEAC meeting 12/04/2016 vides letter no.1050 dated 28/05/2016 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 115 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 82 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. 04 numbers of existing trees are proposed to be uprooted. Necessary permission should be obtained from the competent authority by the PP. In addition to proposed plantation 40 more trees are to be planted as compensatory plantation.
5. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
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. As proposed, buffer zone of 30 meters should be maintained between the HFL of the Khan River and proposed project site. As proposed the PP will also will undertake plantation along the compound wall to act as physical barrier between the proposed building and river. PP will also ensure that no soil erosion takes place along the river banks on account of construction activity.
12. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
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.

5. 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 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.

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 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
-------------	---	-----

Residence population =1345
No of floors =g+6 Max Height=21 m
No. of Blocks =7 blocks main 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 for external areas.

The case was presented by the PP and their consultant in the 273rd 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.

- d. 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 273rd SEAC meeting dated 01/04/2015 vides 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 273rd SEAC meeting dated 01/04/2016. Other environment related issues can also be examined during the site visit.

6. **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- Barkedda Pathani, Vikas Khand- Fanda, Tehsil-Huzur, Distt. Bhopal. The Geographical co-ordinate of the project site is: Latitude - 23° 13' 0.13" N & Longitude - 77° 29' 1.38" 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 known 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 lacks 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 \geq 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 (m ³ /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 By-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 in the 270th SEAC meeting dated 01/03/2016 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 children's play ground in the proposed project? If yes, please mark the same on layout map and submit.

PP has submitted the reply of above issues raised during the 270th SEAC meeting dated 01/03/2016 vides letter dated 25/04/2016 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 123 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 285 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. The supplementary commitment submitted by PP vides letter dated 25/04/2016 regarding plantation scheme, revised water balance , management of excavated soil and children's play ground should be complied with.

7. **Case No. 4151/2015 Shri N.P. Mishra, CEO, M/s Sonia Engineering & Construction (SEAC) Ltd., C-32, Govindpuri Chauraha, Opp. V.C. Bungalow, J. University Road, City Centre, Gwalior (M.P.)-474010 Prior Environment Clearance for approval of proposed Housing Project "SEAC CITY NORTH" at Khasra no.-147/2, 148, 156/3, 158/1, 159, 160, 161, 162, 172, 173, 175, 196, 197, 202, Village-Kargawa, Tehsil-Gwalior, District-Gwalior (M.P.) Total Land Area – 66257 M2 Plotted Development Area - 52773**

M2.For-Building Construction. Env. Cons. – Iconic Envirotech(P) Ltd. Delhi. Case forwarded by SEIAA letter No. 8149 dtd. 26-11-15 Rec.dt-4/12/15

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 FEATURES

S. NO.	PARTICULARS	DETAILS
1.	Location	Khasra No.: 147/2, 148, 156/3, 158/1, 159, 160, 161, 162, 172, 173, 175, 196, 197, 202 at Village Kargawan, Patwari Halka No. 114, Tehsil & District - Gwalior (Madhya Pradesh)
2.	Type of project	Building and construction project
3.	Category	B, Type – 8(a)
4.	Elevation	431m above mean sea level
5.	Current status of land	Residential
6.	Type of facilities	Housing with basic amenities
7.	Nearest Highway	AH-43
8.	Nearest Railway Station	Gwalior Railway Station (Approx. 05 Km.)
9.	Nearest Airport	Rajmata Vijayaraje Scindia airport (Approx. 10 Km.)
10.	Seismic Zone	Seismic Zone-II

AREA STATEMENT

1.	Name of the project	SEAC CITY NORTH, Gwalior
2.	Type of project	Residential Project

(Multi Unit Dev./Duplex/commercial)

3.	Total Plot Area	66257 sq.m (6.6257 Ha.)
4.	Total Built up Area	69780.44 sq.m.
		Permissible
		Multi unit Development@30%
5.	Ground coverage details	Entertainment Building@30%
		Nursery School@30%
		3559.11 sq.m
6.	Permissible F.A.R.	Multi unit development 1:1.75
7.	Area under Road Widening	16335.64 sq.m
8.	Total Open Area	8342 sq. m
9.	Green Area	6369 sq.m
10.	Maximum Permissible Area	23592.59 sq. m
11.	Maximum Ground Coverage	3559.11 sq.m.
12.	Maximum Height	24 m + 2.5 m. stilt
13.	Total No. of Towers	02 nos. (Block-A & Block-B)
		Duplex = 193
		Multi-Unit Block-A (G+8) 32 X 8 = 256
		Multi-Unit Block-B (G+8) 4 X 8 = 32
14.	Total No. of Dwelling Units	Residential + Commercial 11 X 3 = 33
		Informal Sector = 63
		Total dwelling units = 577 Units

15. **Parking required** **Total Parking Required (1 per 100 sq.m.)**
23592.59/100 = 236 Cars
2949 sq.m. in Stilt area (98 Cars)
16. **Parking Area** **1512 sq.m. in Open area (60 Cars)**
2730 sq.m. in Basement (78 Cars)
Total = 7191 sq.m. (236 Cars)
17. **Power requirement and source** **Power would be drawn from State Electricity Board. The total maximum demand would be 3 MW.**
18. **Power Backup** **Backup Source - Two DG sets of 1500 kVA each and using HSD fuel will be used.**
Total Water Requirement = 454 KLD
19. **Water requirement and Source** **Fresh water = 259 KLD**
Treated Water = 195 KLD
Source : Bore Well
20. **Sewage Treatment and Disposal** **STP of 425 KLD Capacity will be installed. No untreated sewage will be discharge outside the project site. The sewage water will be treated and utilized for Flushing and Landscaping. No waste or treated water will be discharge outside the project site; the project will be Zero discharge Project.**

AREA STATEMENT

S. No.	Type of Accommodation / Tower	Number of Towers	Name of Towers	No. Of Flats Per Floor	No. of Floors	Total Flats
1.	Duplexes	193	Duplex	-	2	193
2.	Multi-Unit Development	1	Block-A	32	8	256
3.	Multi-Unit Development	1	Block-B	4	8	32

4.	Residential + Commercial	1	Residential + Commercial	11	3	33
5.	Nursery School	1	-	-	-	-
6.	Club House	1	-	-	-	-
7.	EWS	1	Informal Sector	63	-	63
TOTAL						577

ASSUMPTIONS FOR WATER CALCULATION

WATER DEMAND CALCULATIONS FOR RESIDENTIAL

Occupancy Load=	Daily Water Demand=
4 Person / flat	135 L/Day

WATER DEMAND CALCULATIONS FOR VISITORS

Occupancy Load=	Daily Water Demand=
1 Person / 200 Ft ²	15 L/Day

WATER DEMAND CALCULATIONS FOR CLUB HOUSE

Occupancy Load=	Daily Water Demand=
1 Person / 200 Ft ²	45 L/Day

WATER DEMAND CALCULATIONS FOR LANDSCAPE

@ 6 Litres / M²

WATER BALANCE

S. No.	Particulars	Expected Population	Base of calculation in LPCD	Water for flushing purpose in KL/Day	Water required for domestic purpose	Total Water consumption in KL/Day
1	Duplexes (193 Units)	965 Persons	135 LPCD	43	87	130
2	Flats in Multi Unit Block-A (256 Units)	1280 Persons	135 LPCD	58	115	173
	Flats in Multi Unit Block-B (32 Units)	160 Persons	135 LPCD	7	14	21
3	Flats in Commercial + Residential Complex (33 Units)	165 Persons	135 LPCD	7	15	22
		257				
4	Visitors	10% of the total residential population	45 LPCD	11	-	11
5	EWS (63 Unit)	315 Persons	135 LPCD	14	28	42
6	Shops in Commercial + Residential Complex (40 Shops)	148 Persons	45 LPCD	7	-	7
7	Club House / Entertainment Building	109 Persons	45 LPCD	5	-	5
8	Nursery School	100 Persons	45 LPCD	5	-	5
9	Landscaping (6369.06 Sq.m.)	--	6Lit./Sq.m.	38	-	38
	Total	3499 Persons	-	195 KLD	259 KLD	454 KLD

WATER BALANCE

TOTAL WATER REQUIREMENT (FRESH 259 KLD + RECYCLED 195 KLD)	454 KLD
FRESH GROUND WATER WITHDRAWAL	259 KLD
FRESH SURFACE WATER SUPPLY	-
RECYCLED WATER AVAILABLE	195 KLD

GREEN AREA DEVELOPMENT

Project Infrastructure

Details

GREEN AREA DEVELOPMENT

Proposed physical Green Area (Sq.m)

6369 sq.m

No. of trees to be cut down

0

No. of trees to be planted

250

SOLID WASTE MANAGEMENT

Waste Management

Biodegradable Waste: Treated using vermicomposting technique

Recyclables: Segregated and sold over to local recyclers

Other inert waste: Handed over to authorized agency

PARKING FACILITY

PARKING REQUIRED AS PER RULE & (1) OF MP BHOOMI VIKAS NIGAM ADHINIYAM 2012 @ 1 ECS / 100 M² BUILT UP AREA

Parking Required

236 Cars

Parking Provided

4352.02 Sq.m Open Area	98 Cars
6468.28 Sq.m Stilt Area	60 Cars
2730 sq.m. in Basement (78 Cars)	78 Cars
23592.59/100	236 Cars

The case was presented by the PP and their consultant in the 274th SEAC meeting dated 12/04/2016 wherein it was observed that total fresh water requirements for the project is proposed as 259 KLD and PP has also proposed to plant 250 trees. It was also suggested to the PP by committee that STP should be erected above the ground for trouble-free access. Committee after presentation and deliberations asked PP to submit clarification/information on following issues raised during discussion:-

1. Proposed parking facilities needs enhancement from 236 ECS to at least 350 ECS for which a written commitment along with revised parking plan should be submitted.
2. Water demand calculations and other details are to be revised and recalculated on the basis of 05 persons/family. PP has calculated the demand based on 135 LPCD which can be reduced by adopting water saving devises.
3. Revised plantation scheme with details of proposed peripheral plantation and revised budgetary provisions for EMP.
4. During presentation PP submitted that solar water heating system should be provided in all the duplex and flats for which written commitment should be submitted by PP.
5. Revised solid waste calculations considering total population including floating population also.
6. Layout map showing locations of recharge pits.

PP has submitted the reply of above issues raised during the 274th SEAC meeting dated 12/04/2016 vides letter dated 30/05/2016 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 187 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 543 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. Power back-up for un-interrupted operations of STP shall be ensured.
 6. CFL/LED should be preferred over of tube lights.
 7. Fund should be exclusively earmarked for the implementation of EMP.
 8. MSW storage area should have 48 hours storage capacity.
 9. Dual plumbing should be provided.
 10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
 11. 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.
 12. PP will obtain other necessary clearances/NOC from concerned authorities.
 13. The supplementary commitment submitted by PP vides letter dated 30/05/2016 regarding enhanced parking, water saving devises, plantation scheme, solar water heating system, recharge pits etc should be complied with.
8. **Case No. - 2341/2014Shri SatyabrataSatpathy, Director, M/s H.P. Ore Processors Pvt. Ltd., Missal Layout, Naghoomi Society, Indora, Nagpur (M.S.)-440014 Environment Clearance for approval of proposed Iron Ore Beneficiation Plant at Industrial Area, Village-Hargarh, Tehsil-Sihora, District-Jabalpur (M.P.) Env. Cons. – M/s CSE,Bhopal. FoR- EIA Presentation.**

This is a project for Iron Ore Beneficiation and is covered under the provision of EIA Notification Category 2(b) hence requires prior EC from SEIAA. The EIA report submitted by the PP was forwarded to SEAC for appraisal and necessary recommendations. Project proponent and his consultant presented the salient features of the project, EIA and the proposed EMP. The presentation and the submissions made by the PP reveals following:

Project Details

S. No.	Particulars	Details
1	Name of the project	Iron Ore Beneficiation Plant M/s H. P. Ore Processor Pvt. Ltd.
2	Location of the Project Area	
i	Village	Notified Industrial Area Hargarh
ii	Tehsil	Sihora
iii	District	Jabalapur
iv	State	Madhya Pradesh
3	Area Specific Details	
i	Proposed project area	1.782 ha
ii	Proposed Green Belt	0.588 ha
iii	Toposheet No.	64 A/3
iv	Latitude	23° 29'01"N
v	Longitude	80° 09'51"E
vi	Plot No.	Plot No. 02-05

Requirements		
1.	Total Fresh Water requirement	240 KLD
2.	Total Power requirement	1200 KW
3.	Total Manpower requirement	60 Nos
4.	Total cost of the project	26 Corers
5.	Environmental Protection Cost	2.5 Crores
Details of Project Area		
➤	Nearest	NH 67; 7.0 km
➤	Nearest Railway Station	Sihora; 8 km
➤	Nearest Airport	60 km
➤	National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant reserves within 10 km radius	No National Parks, Sanctuaries, Biosphere Reserves, Wildlife within 10 km radius Bohra Reserved forest ó(2.0 Km) Dhanwahd RF ó 6.5 km
➤	Nearest major city	Jabalpur ó 42 km
➤	Nearest River	Hiren river (1.5 km in S direction)

Raw Material Requirements

S. No.	Name	Qty	Source
1.	Iron ore	4,80,000 TPA	Nearby Mines

Land use break up

The case was presented by the PP and their consultant in the 273rd SEAC meeting dated 01/04/2016 wherein after presentation PP was asked to submit response on following issues:

- b. Detailed plan of tailings disposal.
- c. Elaborate TOR points number 09,10,12,13 and 14.
- d. A note on issues raised in public hearing and commitment of PP.

PP has submitted the reply of above issues raised during the 273rd SEAC meeting dated 01/04/2016 vides letter dated 02/05/2016 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. Dense green belt (@ 500 plants every year) shall be developed along the site boundary including the river side to provide additional protection.
2. The waste water generated from the beneficiation plant shall be reused as committed by the PP and zero discharge conditions should be maintained.
3. Area under plantation should be 0.588 ha of the total plot area.
4. Solid waste generated from the unit shall be utilized for brick manufacturing /other beneficial uses as per the proposal submitted by the PP.
5. PPEs should be provided to all the workers.
6. All the minerals should be stocked in the covered area to avoid fugitive emissions.
9. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
10. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
11. Production capacity for Iron Ore Beneficiation shall not exceed 4,80,000 TPA (throughput).
12. Transportation of material shall be done in covered vehicles.
13. All the roads inside the plant premises should be pucca road and PP should maintain the road used for the transportation of the minerals.
14. Commitments made in the public hearing should be fulfilled by the PP.
15. As committed in public hearing, no village road should be used for the transportation of the minerals.
16. Tailing pond should be lined with HDPE liners to avoid generation of any leachates.
17. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
18. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
19. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition

with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

9. 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 Env. Cons. – Anacon Lab. Nagpur (M.S.)

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 04/08/2012 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)

The case was recommended for the EC by the SEAC in its 272nd meeting dated 31/03/2016 but SEIAA vides their letter no. 1252/SEIAA/16 dated 04/05/2016 has sent back the case stating that *õthere are many discrepancies in production capacity, raw materials requirement and water requirement etc. In the recommendations of SEAC 272nd meeting dated 31/03/2016 and submission made by PP during presentation. It is decided that the case may sent to SEAC along with technical file to re-apprise the case accordingly after visiting the siteö* which was placed before the committee.

It was informed to the committee that PP during final presentation PP has not informed that the they have obtained the revised TOR in the 148th SEAC meeting dated 25/08/2014 for proposed changes in the product mix and thus the detailed of previous TOR issued in the 96th SEAC meeting dated 13/06/2012 were mentioned in the project summery and are varying from the EIA report. The extract of 148th SEAC meeting dated 25/08/2014 are as follows:

“The bulk drug industry is proposed in Industrial Area, Pithampur which has been notified by the Industries Department. ToR was issued for the project to carry out EIA / EMP. The project was exempted from the Public Hearing considering the provisions of para 7(i) III stage (3) (b) of EIA Notification, 2006 as the unit was proposed in an industrial area notified by competent authority of State Govt.

The case was examined by the committee in light of the Office Memorandum of MoEF dated 16/05/2014. Through the said memorandum MoEF has clarified that the exemption from public hearing under the provisions of above

mentioned para of EIA Notification is available only to those projects or activities located / proposed within the industrial estates or parks which have obtained prior EC under EIA notification, as provided for under item 7(c) of the Schedule. Thus in present case PP was asked to conduct Public Hearing as per the procedure laid in the EIA Notification and re-submit the final EIA incorporating the public hearing issues.

In case EC has been issued for the industrial area as a whole under EIA Notification, 2006 a copy of the same may be furnished. Under such condition public hearing shall be exempted.

PP has also submitted a revised application with PFR in light of proposed change of product-mix. The same was discussed in the meeting and it was decided to issue a revised TOR incorporating following additional terms:

- *Public hearing shall be conducted as per the procedures laid in the EIA Notification if EC has not been obtained for the Industrial Area where the unit is proposed.*
- *Worst scenario case with respect to air and water pollutants in the changed product-mix shall be studied and presented along with the treatment options for the same.*
- *The EIA shall be updated incorporating all the expected changes including the public hearing issues where ever necessary.*
- *Other terms as discussed in earlier meeting shall be applicable”.*

The production capacity, raw materials requirement and water requirement etc. as per the presentation made in the 272nd meeting dated 31/03/2016 are as follows:

Salient Features of the Proposed Project

Sr. No.	Parameter	Description
1	Name of product/process	Drug Manufacturing Plant
2	Land Requirement	0.23 acres (926 sq.m.)
3	Landuse	Industrial area
4	Raw Water Requirement	33.67 KLD
5	Source of Water	Industrial authorities, Audyogik Kendra Vikas Nigam (AKVN)
6	Power Requirement	48 KW, DG set -60 KVA proposed
7	Source of Power	Madhya Pradesh Electricity Board (MPSEB)
8	Employment	50
9	Project Cost	Rs.10 crores

ENVIRONMENTAL SETTING

Sr. No.	Particulars	Details
1.	Project location	Village: Pithampur Industrial Area, Tehsil: Dhar, Dist: Dhar, Madhya Pradesh.
2.	Total site area	0.23 acres (926 m ²)
3.	Coordinates	Latitude 22°37'28.77"N and Longitude 75°42'12.82"E
4.	Plant site elevation above MSL	505 m
5.	Geographical location as per toposheet	46 N/10
6.	Nearest representative IMD station	Indore (14 Km, NE)
7.	Nearest highway	NH-59 (Ahmedabad to Indore) (5.7 km, N) NH-3 (Mumbai To Agra) (8.2 km, SE)
8.	Nearest railway station	Mhow (10 km , SE)
9.	Nearest airport	Indore (14 Km, NE)
10.	Nearest rivers	Gambhir river(3.8 km, E)
11.	Nearest lake/ponds	Sanjay Jalashay(5 km, SW)
12.	Nearest port	Nil within 15 km radius
13.	Nearest town	Mhow (9 km , SE)
14.	Nearest city	Indore (13 Km, NE)
Sr. No.	Particulars	Details
15.	District Headquarters	Dhar (40 km, E)
16.	Nearest State/National boundaries	Maharashtra (122 km, WNW)
17.	Nearest major city with 2,00,000 population	Raipur
18.	Nearest village	Pithampur (1.0 km, SW)

19.	Villages within 1 km radius	Pithampur
20.	Distance from the sea coast	400 km
21.	Hills/valleys	NA within 15 km radius
22.	Nearest tourist place	NA within 15 km radius
23.	Archaeologically important places	NA within 15 km radius
24.	Protected areas as per Wildlife Protection Act, 1972 (Biospheres, National parks, Wildlife sanctuaries, community reserves & conservation reserves)	NA within 15 km radius
25.	Reserved / Protected Forests	Betma Reserve Forest – 1.3 (NW) Main Vindya R.F. – 3.34. Km (SW)
26.	Seismicity	Seismic Zone-II (as per 2002 Bureau of Indian standard)
27.	Defense Installations	NA within 15 km radius

DRUG MANUFACTURING PRODUCTS & PRODUCTION CAPACITY

Sr. No.	Product	Capacity (TPA)
1.	Memantine HCL	5
2.	Phthaloyl Amlodipine	20
3.	Voglibose	1
4.	Triprolidine Hydrochloride	18
5.	Glucoseamine HCL + Sulphate	60
6.	Glimepiride	12

Total Production Capacity	116
----------------------------------	------------

PRODUCT CHANGE (Unit: TPA)

Sl.	Proposed Product presented in ToR	Proposed Capacity	Change in Product	Proposed Capacity	Final Proposed product	Final Proposed Capacity
1	Fluconazole	12	Memantine HCL	5	Memantine HCl	5
2	Tenofovir Disoproil Fumarate	12	Phthaloyl Amlodipine	20	Phthaloyl Amlodipine	20
3	Mefanamic Acid	120	Voglibose	1	Voglibose	1
4	Triprolidine Hydrochloride	18	---	---	Triprolidine Hydrochloride	18
5	Glucoseamine HCL + Sulphate	60	---	---	Glucoseamine HCL + Sulphate	60
6	Glimepiride	12	---	---	Glimepiride	12
	Total Capacity =	234			Final Total Capacity =	116

Justification for change in products

“ The products presented in ToR were Fluconazole, Tenofovir Disoproxil Fumarate & Mafnamic Acid which are now replaced by manufacturing Memantine HCl, Phthaloyl Amlodipine and Voglibose respectively. Thus, the final six proposed products are

Memantine HCl, Phthaloyl Amlodipine, Voglibose, Triprolidine Hydrochloride, Glucoseamine HCL + Sulphate & Glimepiride.

- “ Products replaced due to increase in domestic and international demand. These products will be exported all over the world and also will fulfill requirement of domestic market.
- “ Change in products does not increase the total production capacity as well as water consumption, rather the production capacity is reduced from 234 TPA to 116 TPA.

LAND BREAKUP (AREA STATEMENT)

Sr. No.	Land Use	Existing (sq.ft.)	Existing (sq.m.)
1	Construction area		
	Ground floor	3294	306.02
	Lower Ground floor	3294	306.02
2	Unconstructed area	3379	313.91
	Total	9967	925.95 (Say 926)

OVERALL WATER BALANCE (m³/day)

Sr. No.	Particulars	Water Requirement	Wastewater Generation
1	Process	3.67	3.03
2	Boiler	4.0	3.5*
3	Cooling tower/scrubbing	24.0	**
4	Domestic	2.0	1.60
	Subtotal	33.67	8.13
5	Evaporation losses	-	25.54

Total

33.67

33.67

Method of storage of Hazardous wastes

Sr. No.	Plant	Category	Quantity of Generation	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 after fractional distillation.
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 committee after deliberations decided that the revised details as mentioned above may be sent to the SEIAA for change in production capacity, raw materials requirement and water requirement etc as PP has made the presentation based on the revised TOR issued to him and due to typographical error details of previous TOR was mentioned. Committee also decided that since issue regarding change in production capacity, raw materials requirement and water requirement etc has been resolved no site visit may be needed at this stage. The file may be sent back to SEIAA.

DISCUSSIONS BASED ON INSPECTION REPORTS

10. **Case no. 567/2010 Shri Bhupesh Sanghvi, Director M/s Raju Hoarding Pvt.Ltd. 15-16,Jawahar Marg,Indore (M.P.) - The residential complex (Sanghvi Residency) at village-Bicholi Mardana,The.-& Distt.-Indore(M.P.) Total area- 30790 Sqm Builtup area-30748.45 sqm. For BuildingConstruction.**

SEIAA vide their letter no 11732/SEIAA/2016 dated 09.03.2016 has sent back the file to SEAC stating that *“it is decided that the case along with the technical file and information submitted by the PP should be sent back to SEAC for site inspection”*.

In the view of above a team of SEAC members comprises Dr. U.R. Singh and Dr. Alok Mittal inspected the site on 15.04.2016 along with Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. Shri Bhupesh Sanghvi, Director M/s Raju Hoarding Pvt. Ltd. was also present during the inspection along with other staff. **(Site inspection report is annexed as Annexure-1)**

CHRONOLOGY OF THE CASE

Date	Meeting Number	Remark
25.03.2010		Case was submitted to SEIAA
29.07.2010	61 st SEAC meeting	PP was Absent
30.07.2010	61 st SEAC meeting	Queries were raised
30.08.2010	63 rd SEAC meeting	Additional queries were raised
07.01.2011	76 th SEAC meeting	Case was recommended for the grant of EC with following six conditions:

		<ul style="list-style-type: none"> • Permission for abstraction of ground water has to be obtained from the concerned authority. • Use of Solar energy for utilities has to be explored and implemented. • Energy conservation plans to be prepared and implemented where ever possible. • Green building concepts to be adopted. • Un-interrupted operation of STP has to be ensured. • MSW has to be managed as per the proposal.
16.03.2011	53 rd SEIAA meeting	Case was closed on the ground that the project falls in critically polluted area coming under the preview of Category A MoEF. Hence SEIAA decided to close the case and return application along with the documents to the concerned PP, immediately. However, it appears from the file that the application along with the documents were not returned to PP.
14.06.2011	60 th SEIAA meeting	Certain policy guidelines and clarifications were sought from MoEF GoI for such type of cases.
04.08.2011	64 th SEIAA meeting	The case was reopened on the basis of decision taken on majority basis for examining the cases as per MoEF OM 25.04.2011
19.09.2011	66 th SEIAA meeting	Case was sent to SEAC for reexamination on certain issues within 60 days
09.11.2011	84 th SEAC meeting	SEAC returned back the case to SEIAA, reiterating its earlier stand.
27.01.2012	81 st SEIAA meeting	SEIAA raised certain queries, which were communicated through letter

		<p>dated 09.02.2012 of SEIAA. Queries were</p> <ul style="list-style-type: none"> • Treatment plant • STP capacity • Water recycling • Adequacy of treated water supply • Waste management plan • Disaster & safety Management • High rise building permission • Land diversion <p>PP informed that this letter was not received by them. The same is also mentioned in chronology submitted by PP.</p>
16.08.2013	143 rd SEIAA meeting	Decided to send reminder to MoEF GoI for clarification regarding decision policy decision taken in 60 th SEIAA meeting dated 14.06.2011 pertaining to SO 695(E), dated 04.04.2011 amendment of EIA notification 2006. It was also decided that concerned PP should be informed about those cases which are summarily closed/rejected and copy of the letter should be endorsed to MS MPPCB & MS SEAC and all concerned.
11.09.2013		Letter of SEIAA received by PP for queries
27.10.2013		Query reply submitted to SEIAA
31.12.2015		Letter of SEIAA received by PP for same queries
15.02.2016		Query reply submitted again to SEIAA
09.03.2016		Letter of SEIAA regarding site inspection. Case referred back to SEAC.
15.04.2016		Site Inspection

The observations/remarks on response of PP to information sought from during the site inspection are given in following table:

Information Sought from PP	Response of PP (submitted by PP vide letter dated 06-05-2016, received in SEAC vide receipt No. 3929 dated 07-05-16)	Observations/Remarks
To submit chronology of the events as it's a very old case.	A brief chronology was provided by PP.	<i>The above mentioned up to date chronology has been developed by the visiting SEAC team from the file, MPSEIAA website and information provided by the PP.</i>
During inspection PP informed that the source of water supply is ground water & they have obtained the permission of CGWB. PP was asked to submit the copy of CGWB permission letter.	PP informed they have already submitted it in SEIAA in 2011. However, they have again provided a copy thereof.	During inspection PP informed that the source of water supply is ground water. The said permission was already there in the file.
Details of all the constructed blocks with number of occupants till date should be submitted.	PP submitted the desired information about number of constructed units, number of units sold and occupancy in A,B & C blocks constructed till date	<ul style="list-style-type: none"> •Block A= 30 units, 25 sold and 7 occupied •Block B= 30 units, 29 sold and 78 occupied •Block C= 186 units, 143 sold and 70 occupied <p>Thus total 246 units have been constructed in Two Block (1st Block A+B & 2nd Block C) wherein 85 residents are residing</p> <ul style="list-style-type: none"> • <i>The total built up area of constructed blocks is 18,744 sq.mt.</i> <p>PP informed that 478 flats are proposed in entire project.</p>
Details of construction already taken place in two blocks on layout map with area statement.	PP submitted the desired information.	Two constructed blocks have been shown on layout map; <ul style="list-style-type: none"> • 1st Block (A and B-3531sq mt each) • 2nd Block (C -11,682 sq mt)

		<ul style="list-style-type: none"> Total built up area of constructed blocks is 18,744 sq.mt.
Copy of fire NOC and MSW disposal NOC.	PP submitted both NOCs.	PP has provided water storage tanks with pumps in the basement of two constructed blocks. As suggested by the SEAC team PP has submitted detailed plan of compartmentalization of UG water tank for fire fighting and domestic use.
Plan of parking for 450 residents with provision for the visitors on project layout map.	PP submitted the desired information.	Stilt parking has been provided for the present residents, which appeared well organized as during the visit no vehicle was spotted beyond parking area. PP has submitted parking plan for 508 cars including 478 covered parking for residents and 30 open parking for visitors.
Plan for the up gradation of the STP as per the desired norms.	PP submitted the desired Plan for the up gradation of the STP as per the desired norms.	During inspection STP was found operational but STP area smelled foul. Hence, PP was suggested to install suitable system for odour control and filter press in the existing unit with immediate effect. Online chlorine dosing proposed by PP seems to be reasonable option.
PP was asked to submit a written commitment for the dual plumbing.	PP submitted the desired commitment.	PP has submit a written commitment, on non judicial stamp paper, for the dual plumbing in new blocks,
PP was asked to submit a written commitment for peripheral plantation.	PP submitted the desired commitment.	PP has submitted a written commitment, on non judicial stamp paper, for completing peripheral plantation before start of second phase.
To submit plan of proposed solar lights and rain water harvesting pits on layout map.	PP submitted the desired information.	The information on the rain water harvesting pits was already there in the file. A detail plan of proposed solar lighting system shown on layout map has been submitted

OBSERVATIONS

- Total 05 blocks are proposed by PP, out of which 02 blocks are already constructed. The total built up area of constructed blocks is 18,744 sq.mt.
- Three blocks are yet to be constructed.
- Almost two third area is lying vacant in which remaining three blocks will be constructed.
- Two landscape gardens are provided by the PP in the front of the project near the constructed blocks, which are well maintained even in the peak summer period, i.e. during the visit. PP informed that they are using STP treated water for watering this area.
- There is also peripheral plantation in the presently constructed area. The full grown trees indicate that these were planted at the onset of project.
- In the rest of the area, no significant plantation is done so far. Committee suggested to the PP that they should complete peripheral plantation in the entire project in this monsoon season. PP has submitted a written commitment, on non judicial stamp paper, for completing peripheral plantation before start of II phase.
- For the residents residing in the presently constructed blocks provision for the stilt park has been made. The parking appeared well organized as during the visit no vehicle was spotted beyond parking area. However, PP has submitted parking plan for 508 cars including 478 covered parking for residents and 30 open parking for visitors.
- There are arrangements for the fire fighting in these blocks. However, as suggested by the SEAC team PP has submitted detailed plan of compartmentalization of UG water tank for domestic use and fire fighting.
- Two DG sets for two blocks are installed in the premises for electrical supply in common area, lift and STP.
- A modular type STP has been constructed in the eastern corner of the project. During inspection STP was found operational but STP area was smelling foul. Hence, committee is of the opinion that immediate minor upgradation including installations of suitable system for removal of foul smell, and filter press are warranted. Online chlorine dosing proposed by PP seems to be reasonable option.
- During inspection, PP informed that at present entire MSW is collected by the municipal corporation from their campus for disposal on payment basis and they have provided bins for MSW collection to each of the flats. Committee opines that dedicated area for 48 hour storage of MSW should be provided.

The case has already been recommended for the grant of Environmental Clearance by SEAC more than 5 years ago in its 76th meeting held on 07.01.2011. SEAC reiterated its earlier stand in 84th SEAC meeting held on 09.11.2011. However, it was under consideration in SEIAA basically for want of clarity on policy and not for substantial technical reason.

PP in their letter dated 06-07-2016 while submitting the additional information sought by the committee preyed following:

“Hon’ble SEAC, was kind enough to recommend our case for the grant of Environmental Clearance with certain conditions. We understand that our case has been cleared the technical scrutiny of Hon’ble expert committee for the environment clearance.

Further, having been come to know about the MoEF OM dated 12.12.2012 about the violation clause, no construction/development activities were taken upon the site, which can easily be verified from the time line imageries of Google Earth maps (enclosed). Hence, this case does not fall within the purview of MoEF OM dated 12.12.2012 and therefore does not qualify for credible action.”

The study of the Google imagery submitted by PP indicates that PP claim seems to be correct.

The above report of the sub-committee was placed before the committee wherein after deliberations committee decided that the report may be sent to SEIAA as the case has already been recommended for the grant of Environmental Clearance in its 76th meeting held on 07.01.2011.

11. 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. The proposed project is located at Plot No. 125, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State.

BACKGROUND

The case was presented by the PP and their consultant in the 270th SEAC meeting dated 01/03/2016 wherein committee recommended for issuance for TOR with some additional TORs. 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 250th SEIAA meeting dated 14/10/2015) and after site visit if required, additional TOR may be issued.

In the view of above background a team of SEAC members comprises Dr. U.R. Singh and Dr. Alok Mittal inspected the site on 14.04.2016 along with Shri. Hemant Sharma, Regional Officer, MP Pollution Control Board, Dhar & Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. Mr. Alpesh Patel representing M/s Vini Industries was also present during the inspection. **(Site inspection report is annexed as Annexure-2)**

The Salient feature, Product Profile, Raw Material for Dyes Intermediate, Raw Material for Emulsifier, Water Balance, Solid / Hazardous waste management of the project : M/s Vini Industries are given in following tables;

<i>SALIENT FEATURE OF THE PROJECT : M/S VINI INDUSTRIES*</i>	
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 MPPKVCL Energy consumption: 50 kVA & stand by D.G. Set (1 x 125 KVA) in case of power failure
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC	

- 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.

<i>Product Profile of M/S VINI INDUSTRIES*</i>		
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
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC		

<i>RAW MATERIAL FOR EMULSIFIER</i>		
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
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC		

<i>RAW MATERIAL FOR EMULSIFIER</i>		
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
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC		

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	
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC			

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 200nos./ month	Collection, storage and disposal by selling to authorized dealers.
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC				

THE OBSERVATIONS; -

The observations of SEAC team (Dr. U R Singh and Dr. Alok Mittal members SEAC, Dr. Abhay Saxena oic SEAC Secretariat and Shri Hemant Sharma RO, MPPCB, Dhar) during the site visit on 14th of April 2016 of the project are as follows;

- The major part of civil work and erection of machineries and has already been done at the site.
- The site is about 1.5 meter below the road level and a Nallah passes in between the road and project boundary
- Construction of office block is complete. **(Figure 1).**
- A concrete base structure beside the office block has been constructed **(Figure 2).**
- Main shed of the operational area of the plant is almost ready and several vessels have already been installed, i.e., 5 large vertical vessels, 3 large horizontal vessels along the boundary and one large horizontal vessel in the center. **(Figures 1, 3 - 6).**
- 4 big size Syntex tanks have been found lying at the site. **(Figure 7).**
- In addition to above, three RCC underground tanks have already constructed been near the main shed. **(Figures 8, 9)**

MAJOR SHORTCOMING

- There is virtually no plantation on the project site. **(Figures 1, 3, 7, 10 – 12)**
- The construction has been done in such a way that there is no scope for peripheral plantation on the site.
- The layout plan / land use break up is also not very clear. There is mismatch in different components of proposed lay out plan shown by PP during site visit and the actual construction already done at the site. However, it could not be verified because layout map / land use break up was not given in the Form-1 / papers circulated by PP to SEAC members before presentation. This may be noted that lay out plan is the basic prerequisite of the application for EC/ToR

- There is practically no provision for storm water drainage and the site is about 1.5 m below the road level. Therefore, rain water will be accumulated at the site leading to the possibility of percolation of hazardous substances to the soil and ground water.
- Within the constructed unit there are only close pipeline network. In order to ensure transparency open inter tank transfer is warranted.
- To avoid any possible percolation of hazardous chemicals, leak proof (polymer/HDPE) lining has been recommended in the cases recently appraised by the SEAC. Since the construction of working area has already been done by the PP, there seems to be little scope for such leak proof lining unless the entire structure is dismantled and all the tanks, vessels and pipelines are removed and reinstalled after leak proof lining.

After inspection PP was asked to submit response on following:

- The list of equipment and machineries with their numbers and year of installation of each one of them from date of consent to establish obtained from M. P. Pollution Control Board.
- Proposal of PP for rainstorm water management.
- Proposal of PP for increasing the ground level in premises to prevent the entry of rain water from the outside.
- Details of constructions and installations already done, showing on layout map.
- Copies of correspondences between M. P. Pollution Control Board (MP-PCB) and company, including notices/directions issued by MP-PCB (if any) with their compliance.

PP's response on above points has not been received till the date.

RECOMMENDATION

- Owing to the fact elaborated above under heading 'observation' it is, Prima facie, a case of violation under EIA notification 2006. Hence, the case has to be reappraised after credible action under MoEF OM 12/12/12.
- Most the issues enumerated above under the heading observation, shortcoming and response sought during site visit are, usually, part of DPR which is, in principle, prerequisite of ToR. Hence, PP may be asked to address these issues during reappraisal.

The above report of the sub-committee was placed before the committee wherein after deliberations committee decided that PP may be asked to submit following information as suggested by the sub-committee within 30 days:

- a. The list of equipment and machineries with their numbers and year of installation of each one of them from date of consent to establish obtained from M. P. Pollution Control Board.

- b. Proposal of PP for rainstorm water management.
- c. Proposal of PP for increasing the ground level in premises to prevent the entry of rain water from the outside.
- d. Details of constructions and installations already done, showing on layout map.
- e. Copies of correspondences between M. P. Pollution Control Board (MP-PCB) and company, including notices/directions issued by MP-PCB (if any) with their compliance.

Based on the information to be submitted by the PP, the committee will also ascertain whether it is a case of violation or not and proceed accordingly. Further in case the PP fails to submit the said information within the given time limit, the TOR approved in the 270th SEAC meeting dated 01/03/2016 may be considered for withdrawal.

12. Case No. - 4897/15 Shri Deepak Kantilal Shah, Director, M/s SAP Finechem Pvt. Ltd., Plot No. 174, AKVN Industrial Growth Centre, Meghnagar, Taluka-Meghnagar, District-Jhabua (MP)-457779 Prior Environment Clearance for proposed Manufacturing of Dyes & Intermediates, Production Capacity- 300 MTPM, Area- 5000 sq.mt., at Plot No.- 174, AKVN, Industrial Growth Centre, Meghnagar, Taluka-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 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. The proposed project is located at Plot No. 174, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State. The industry was commissioned in the year 2011 and commercial production was commenced in the same year for FeSO₄, MgSO₄, MnSO₄ and gypsum by-product, however the consent to operate was obtained in February 2014 (please refer documents submitted with application and Form 1).

BACKGROUND

The case was presented by the PP and their consultant in the 271st SEAC meeting dated 02/03/2016 wherein committee recommended for issuance for TOR with some additional

TORØ. 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 250th SEIAA meeting dated 14/10/2015) and after site visit if required, additional TOR may be issued.

In the view of above background a team of SEAC members comprises Dr. U.R. Singh and Dr. Alok Mittal inspected the site on 14.04.2016 along with Shri. Hemant Sharma, Regional Officer, MP Pollution Control Board, Dhar & Dr. Abhaya K. Saxena, oic SEAC secretariat / Sr. Scientific Officer, MP Pollution Control Board, Bhopal. Mr. Deepak Shah representing M/s SAP Finechem Pvt. Ltd., was also present during the inspection. **(Site inspection report is annexed as Annexure-3)**

The unit is proposed for manufacturing of synthetic organic chemicals (dyes & dye intermediate) with proposed production capacity of 300 MTPM at Plot No. 6174, AKVN, Ind. Area - Meghnagar, Tehsil - Meghnagar, District- Jhabua (MP). The allotted area of land for this proposed unit is 5000 sq.mt.

It is an old chemical industry said to be non operational for quite some time. The unit seems to be in bad condition and haphazardly maintained, some of the civil structures and installations are in dilapidated condition.

THE OBSERVATIONS

The observations of SEAC team (Dr. U R Singh and Dr. Alok Mittal members SEAC, Dr. Abhay Saxena oic SEAC Secretariat and Shri Hemant Sharma RO, MPPCB, Dhar) during the site visit on 14th of April 2016 of the project are as follows;

- It is an old chemical industry said to be non operational for quite some time. The unit seems to be in bad conditions and haphazardly maintained **(Figures 1 – 6)**. Some of the civil structures and installations are in dilapidated condition. This fact was not highlighted during the presentation by PP in 271st meeting of SEAC held on 2nd March, 2016.
- The industry was commissioned in the year 2011 and commercial production was commenced in the same year for FeSO₄, MgSO₄, MnSO₄ and gypsum by-product, however the consent to operate was obtained in February 2014.
- Owing to almost complete coverage of the project site with structures and installations there is hardly any scope of addition without demolition/ decommissioning. PP has not been able to explain / present the refurbishing plan using existing facility as such or with modification or replacements with new facilities. This should have been part of DPR based on which ToR for EIA was sought.
- There is mismatch in layout of the plan shown by PP during site visit and the actual construction already done at the site. This is evident by
 - Presence of a big gate at the back side of unit opening on another road and adjacent to low lying open land. **(Figures 7 – 9)**

- Green belt area is shown to be about 25% of the plot area (1250 sq.m. out of 5000 sq.m.). But there is neither any existing plantation nor any scope for plantation. **(Figures 10 – 12)**
- About 20% land i.e. 1000 sq.m. out of 5000 sq.m., is shown for road but there is any uncovered space except at the front entry gate **(Figures 10 – 12)**
- Large quantity of hazardous wastes was haphazardly stored in the plant premises in open area / under a shade and in drums of earlier productions (as told by PP). PP was not able to present documented account of quantity and quality of hazardous wastes in the premises. **(Figures 13 - 16)**
- Haphazardly spread scrap machinery and materials was also observed in the premises. **(Figures 10 – 12, 17, 18)**
- PP was also not certain if there is any residual waste material still lying in the existing vessels/reactors.

MAJOR SHORTCOMING

- Though it is an old factory but there is virtually no plantation in the factory premises/project site. The old construction/installations do not leave scope for peripheral plantation on the site. The only open area is available for plantation is near the entry gate but is said to be for parking / loading and unloading.
- In spite of being old industry, there is, practically, no provision for storm water drainage. The rain water is likely to be accumulated at the adjacent open land, which is more 1.0 m below the level of project site, leading to the possibility of percolation of hazardous substances to the soil and ground water.
- The open inter tank transfer is warranted to ensure transparency but there are only close pipeline network within the old constructed unit.
- The layout of the plant / land use break up is also not very clear. In addition to main gate there is a gate at the back side too which is not in the layout map shown by PP at the site.
- There appears to be a mini unit almost independent to main unit operated from the unauthorized gate, which is not shown on layout, at the back side.
- To avoid any possible percolation of hazardous chemicals, leak proof (polymer/ HDPE) lining has been recommended in the cases recently appraised by the SEAC. Since the construction / installation of working area has already been done by the PP, there seems to be little scope for such leak proof lining unless the entire structure is dismantled and all the tanks, vessels and pipelines are removed and reinstalled after leak proof lining.

After inspection PP was asked to submit response on following:

- 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 hazardous wastes with their quantity stored in the premises at present with their proposed mode of disposal.
- i. Proposal of PP for rainstorm water management.
- j. Green belt development plan.
- k. Soil testing report of the premises as Hazardous waste was disposed off in the premises.
- l. As it is an existing unit, PP should provide details about the modifications required in the existing setup for the proposed products.
- m. 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 (if any).

PP's response on above points has not been received till the date.

RECOMMENDATIONS

The PP may be called for presentation addressing the issues enumerated above under the heading observation, shortcoming and response on information sought during site visit (Point No. a. to m. above), as most the issues should be part of DPR which is, in principle, prerequisite of ToR.

The above report of the sub-committee was placed before the committee wherein after deliberations committee decided that:

- (A) Copy of this report may be sent to MS, MPPCB for early and safe disposal of hazardous wastes lying in the premises of this unit.
- (B) PP may be asked to submit following information as suggested by the sub-committee within 30 days:
 - 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 hazardous wastes with their quantity stored in the premises at present with their proposed mode of disposal.
- i. Proposal of PP for rainstorm water management.
- j. Green belt development plan.
- k. Soil testing report of the premises as Hazardous waste was disposed off in the premises.
- l. As it is an existing unit, PP should provide details about the modifications required in the existing setup for the proposed products.
- m. 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.

On receipt of the information as above from the PP, the PP may be called for presentation. In case the PP fails to submit the said information within the given time limit, the TOR approved in the 270th SEAC meeting dated 01/03/2016 may be considered for withdrawal.

13. Following case files are received from SEIAA which were placed before the committee for onward necessary action with details of action taken so far by SEIAA & SEAC:-

SN	Case no./Project	SEAC Meeting Details	SEIAA Meeting	Recent Instructions from SEIAA	Remark
1.	Case No. - 818/2012 Mr. Mahesh Manwani, Director, "Alpine Greenage" of M/s Himanshu Infrastructure Pvt. Ltd." A 2, IInd Floor, Above Metro Shoes, Ravishankar Market, Bhopal (M.P.) "	<i>Case</i> <i>Recomme</i> <i>nded 158</i> <i>dated:</i> <i>28/11/201</i> <i>4, SEAC</i> <i>241 dt.</i> <i>06/11/15</i>	268 th dt. 05/1215 & 274 th dt. 23/1215, letter no. 10055 dt. 31/12/15	To Visit the site and inspect on the basis of 15 parameters indicated in MoEF OM dt. 19/06/2013.	As desired by SEIAA vide letter no. 4458 dated 07/08/2015, the site visit already carried out by SEAC's sub-committee on 03/10/15. Report submitted to SEIAA.

	<i>Alpine Greenage" of M/s Himanshu Infrastructure Pvt. Ltd." Khasra No. 529 (Old No.- 47/1/2/1), 530 (Old No. 47/1/1) Vill. –Gehukheda, Th. – Huzur, Distt. – Bhopal (M.P.) Total Land Area – 34,400.00 Sq.m. (3.44 Ha.),Total Built-up Area – 27334.22 Sq.m., Env. Cons. – In- Situ Enviro Care, Bhopal.</i>				
2.	Case No. - 1805/2014 M/s Sterling Globe Builders through Director, Shri Sanjeev Sabherwal, Opp. Hanuman Nagar, Jatkheri Road, Near Hoshangabad Road, Tehsil – Huzur, Distt. – Bhopal (M.P.) <i>Sterling Globe Grand M/s Sterling Globe Builders at Khasra No.– 460 Village – Opp. Hanuman Nagar, Jatkheri Road, Near Hoshangabad Road, Tehsil – Huzur, Distt. - Bhopal Total Plot Area- 12600 Sq.mt Env. Consultant – In- Situ Enviro Care, Bhopal.</i>	SEAC Meeting Case Recommended 158 dt. 28/11/15, SEAC 241 dt. 06/11/15.	274 th SEIAA dt. 23/12/15, letter no. 10061 dt. 31/12/15	To Visit the site and inspect on the basis of 15 parameters indicated in MoEF OM dt. 19/06/2013.	As desired by SEIAA vide letter no. 4458 dated 07/08/2015, the site visit already carried out by SEAC's sub-committee on 03/10/15. Report submitted to SEIAA.
3.	Case No. - 2350/2015 Shri Dinesh Moolchandani, Director, M/s Paras Housing (India) Pvt. Ltd. , 243-B, Zone-1, M.P. Nagar, Bhopal-462011 (MP) Group Housing Project "Urbane Park" at Village-Bawadiakalan, Tehsil-Huzur, District-Bhopal (M.P.) at Khasra No. – 98, 99, 100, 101, 495/98, 102/1, 107, Total Project Area – 13587.30 Sq.m., Total Built up Area- 21332.70 Sq.m.	SEAC Meeting ó 172 dt. 22/2/15, 199 dt. 21/6/15 & SEAC 241 dt. 06/11/15.	274 dt. 23/12/15 letter no. 10058 dt. 31/12/15	To Visit the site and inspect on the basis of 15 parameters indicated in MoEF OM dt. 19/06/2013.	As desired by SEIAA vide letter no. 4458 dated 07/08/2015, the site visit already carried out by SEAC's sub-committee on 03/10/15. Report submitted to SEIAA.
4.	Case No. - 2092/2014 Shri Sanjeev Sabharwal, Partner, M/s SARC Infrastructure & Technology, Near Bawarchi Restaurant, Hoshangabad Road, Bhopal-462026 <i>Prior Environment Clearance for approval of proposed commercial project "Pacific Business Centre" at Vill.-Bawadia Kalan, Tehsil-</i>	SEAC Meeting ó 176 dt. 26/2/15, 182 dt. 28/3/15 & Case Recommended 198 Meeting	SEIAA 219 dt. 16/07/15 & 274 dt. 23/12/15 letter no. 10062 dt. 31/12/15	To Visit the site and inspect on the basis of 15 parameters indicated in MoEF OM dt. 19/06/2013 and submit the inspection report along	As desired by SEAC in the 182 nd meeting dated 28/03/2015, the site visit already carried out by SEAC's sub-committee on 15-16/10/15. Report submitted to SEIAA.

	Huzur, District-Bhopal (MP) Env. Consultant-In Situ Enviro Care, Bhopal.	dt. 04/06/15.		with the area constructed and whether construction has been carried out to the building permission.	
5.	Case No. - 2458/2015 Mr. Neeraj Bhushan Macker, 501, 5th Floor, Ashima Corporate Zone, Ashima Mall, Hoshangabad Road, Bhopal-462026 SEIAA letter no. 3576 dt. 16-02-15 <i>Prior Environment Clearance for approval of proposed project "Silver Estate Vertica Located at 60, 61, 62, 63, 64/1, 66, at Village-Katara, Tehsil-Huzur, District-Bhopal (MP) Plot Area-16,700 sq.m. & Built up Area-27,033.28 m². For-Building Construction. Env. Consultant- GRC (I), Noida, U.P.</i>	SEAC 182 dt. 28/03/16, Case Rec. SEAC 198 dt. 24/06/16.	SEIAA 10612 dt. 18/01/16 Rec. dt. 18/01/16.	To Visit the site and inspect on the basis of 15 parameters indicated in MoEF OM dt. 19/06/2013 and submit the inspection report along with the area constructed and whether construction has been carried out to the building permission.	As desired by SEAC in the 182 nd meeting dated 28/03/2015, the site visit already carried out by SEAC's sub-committee on 15-16/10/15. Report submitted to SEIAA.
6.	Case No. 631/2011- Mr. Sunil Moolchandani, M/s Chinnar Reality Pvt. 29 Ltd. " Chinnar House" 231, Zone-II, M.P. Nagar, Bhopal (M.P.) Group Housing Project at Ratanpur Sadak Khsara No. 1051, 1052, 1053/1, 1053/2, 1054/2, 1055/2, 1055/3, 1059/1, 1059/2, 1060, 1061,1062, 1063,1064, 1065,1070,1071,1073, 1074,1075,1096 Khsara No. 209, 210, 211 ,212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, Teh.-Huzur,Distt. – Bhopal (M.P.) Total Land Area – 11.3620 Ha Total Built Up Area – 99,710.98 m²	SEAC 79 dt. 02/09/11, 81dt. 12/10/11, 87 dt. 07/01/12, Case Rec. SEAC 198 dt. 24/06/16.	SEIAA 10613 dt. 18/01/16 Rec. dt. 22/01/16.	To Visit the site and inspect on the basis of 15 parameters indicated in MoEF OM dt. 19/06/2013 and submit the inspection report along with the area constructed and whether construction has been carried out to the building permission.	As desired by SEAC in the 182 nd meeting dated 28/03/2015, the site visit already carried out by SEAC's sub-committee on 15-16/10/15. Report submitted to SEIAA.

All the above cases were placed before the committee. During discussion it was observed by the committee that in all the above cases, SEAC's sub-committee (as instructed by

SEIAA/SEAC) has already carried out inspection as per given TOR and submitted the report which was discussed in the subsequent SEAC meetings and report along with the minutes were forwarded to SEIAA. However, as per the latest communication SEIAA, now, desires that inspections of above projects should be done again and inspection report be submitted based on 15 parameters indicated in MoEF OM dt. 19/06/2013. It should also cover the area constructed and whether construction has been carried out according to the building permission.

The issue was discussed in depth in the meeting and it was observed that as per the MoEF OM No. 21-270/2008-IA.III dt. 19/06/2013, the appraisal of the project is to be carried out on the basis of 15 parameters to meet the stipulated time line, to avoid duplication of work and to speed up the process of scrutiny.

Considering the above OM, committee was of the opinion that:

1. As the site inspection has already been carried out by the members of SEAC and report submitted, inspecting them again will be a duplication of work unless some specific information is required by SEIAA. The 15 parameters mentioned in the OM had already been considered by the committee at the time of presentation and during site inspection by the sub-committee of SEAC.
2. As regard area constructed and whether construction has been carried out as per the building permission, the committee was of the view that for exact and authentic assessment of the area constructed and whether construction has been carried out as per the building permission, it would be more appropriate to request the concern agencies of the State Govt.
3. Committee also observed that in case no. 818/12, 1805/14, 2350/15 there is no clarity about the initiation of credible action.

The concerned files may be sent to SEIAA for further necessary action.

14. Case No. – 2642/2015 Mr. Rajesh Parchani, CEO, A-101, Orchard Point, Palace Orchard, Kolar Road, Bhopal-462016 (M.P.).Prior Environment Clearance for proposed Residential Group Housing Project "Signature-360" at Village-Barrai, Tehsil-Huzur, District-Bhopal (MP).

This is a building construction project comprising a Residential. The project is proposed at Village-Barrai, Tehsil-Huzur, District-Bhopal (MP). By virtue of type and size of the project falls under category 8(a) ó B2 as per the schedule of the EIA notification hence requires prior

EC from SEIAA before commencement of activity at site. Application along with the relevant documents was forwarded to SEAC by SEIAA for appraisal and necessary recommendations.

The case was applied for environmental clearance in MPSEIAA on 26/03/2015 and was taken up in 196rd meeting of MPSEAC. PP submitted a document stating that the construction activity has already been initiated at site. Thus it is a clear case of violation. The committee decided to return the case to MPSEIAA for credible action as per O.M. of MoEF & CC dated 12/12/2012. SEIAA vide letter no. 10053 dated 31/12/2015 forwarded back the case to SEAC with recommendations for site inspection.

As decided, Shri K. P. Nyati, Member SEAC and Shri Manohar K. Joshi, Member SEAC visited the site on 18/01/2016. During inspection, Dr. Sunil Sudhakaran, Scientist, MP Pollution Control Board, Bhopal was also present along with the PP and their consultant. **(Site inspection report is annexed as Annexure-4)**

Description of the project:

S. No	Items	Details
1.	Type of Building	Residential
2.	Total Plot Area	75,700 m ²
3.	Agricultural land	12,180 m ²
4.	Deductable area (Area of land under road)	15,007.3 m ²
5.	Net Plot Area	48,512.7 m ²
6.	Area for residential development	Plotted development: 16,436.17 m ² (33.88%) Multiunit Development: 15,751.88 m ² (32.47%) Open Area: 5,576 m ² (11.49%) Convenient Shop Area: 1,646.46 (3.39%) Service Area: 487 m ² (1%) Informal sectors: 728 m ² (1.5%) Area under roads: 7,887.19 m ² (16.26%) Total area: 48,512.70 m ²

7.	Ground Coverage	Permissible Ground Coverage (30% of net plot area) = 14,554 m ² Multiunit Development Proposed ground coverage (Multiunit development) = 5,188.6 m ² (10.7% of net plot area) Plotted Development Proposed ground coverage = 8,344.0 m ² (17.2% of net plot area) Convenient Shops Proposed Ground Coverage = 670 m ² (1.4% of net plot area) Informal sectors/ LIG Proposed ground coverage = 352 m ² (0.7% of the net plot area) Total Ground Coverage: 14,554 m ²
8.	FAR details	Total Permissible FAR = 90,654.6 m ² Permissible FAR = 60,640 m ² (@1.25) Additional FAR against road widening = 30,014 m ² (@2.0) Proposed FAR: 57,417.4 m ² (@ 1.18) For Plotted development = 19,841.40 m ² For Multiunit Development = 36,906 m ² For Convenient Shops = 670 m ²
9.	Non- FAR details	Informal Sector = 1,091.53 m ² Stilt Area = 5,188 m ² Area for Services = 487 m ²
10	Total Builtup area	52,229 m ²
11	Total open area	33,958 m ² (70% of net plot area) (Total plot area ó Ground coverage)
12.	Road and internal circulation space/ Paved area	18,377.19 m ² (37% of net plot area) (Road Area: 7,887.19 m ² Paved area: 10,490 m ²)
13.	Landscape	5576 m ² (11.5 % of net plot area)
14	No. of Trees	Total no. of trees required: 1 Tree/ 100 m ² of Open Area = (Total Planning Area-Ground Coverage)/100 = 33,958/100 = 339 Proposed: 400 Trees
15.	No of units to be developed	No. of duplexes : 177 No. of apartments: 456 EWS: 46
16.	Maximum Height of the Building	18 m Approx
17.	Area Utilization	G+6, Duplex houses
18.	Estimated Population (fixed + floating)	Residential: 3165 (@ 5 person per unit) EWS/LIG : 230 (@ 5 person per unit) Staff: 180 (5% of total population)

19.	Parking facilities	<p>Required Residential Parking = 369 Vehicle spaces @ 1 ECS per 100 m² of FAR Convenient Shopping = 13 Vehicle Spaces @ 1 ECS per 50 m² of FAR Visitors parking = 20 Vehicle spaces @ 10% of total parking Total Required Parking = 402 Vehicle spaces Provided: Duplex parking: Individual parking for duplex houses. Convenient Shop Parking: Parking for 13 ECS (@ 25 m²/ECS) will be provided at convenient shops. Multiunit Parking: 397 Total Provided Parking = 410 Vehicle Space</p>
-----	--------------------	--

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 75,700 Sq.m. and the proposed built up area of the project is 52,229 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. No occupancy has been given in the project. Construction status for different residential blocks is different. Construction activities were observed during site visit and approx. 60-70% of the project was completed. It is a case of continual violation of construction.
- 3 numbers of Entry/exit are present to the project site. 2 Main entry exits are through 12 m wide coordination road. One entry in the east is through 24 m master plan road while all the roads for internal circulation are 6 m, 7.5 m and 9 m wide. Some internal roads have already been constructed on site. Peripheral plantation is present along the project boundary.
- As per the information provided PP, drainage pattern of the project is 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 177 duplexes and 456 apartments are proposed in the project. 46 nos of EWS units are also proposed. Civil constructions of some units have been completed.

- For conflict free traffic and fire tender movement, arterial roads of 6 m, 7.5m and 12 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 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 450 KLD is proposed. STP will be functional after occupancy in the project. 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 demarcated near the STP area.
- As per the information provided by PP, 10 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. None of the rain water harvesting structures is complete yet. 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, 5,576 Sq.m (11.6%) of area is dedicated for the landscaping purposes. PP also ensured to provide peripheral plantation and plantation in landscape area.
- 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 committee observed that as per the OM No. J-11013/41/2006-IA.II (I) dated 12/12/2012 it is clearly stated that:

“The matter relating to the violation will needs to be put-up by the PP to the Board of Directors of its company or to the Managing Committee/CEO of the society, Trust, partnership/ individually owned concern for consideration of its environmental related policy/plan of action

as also a written commitment in the form of a formal resolution to be submitted to the MoEF to ensure that the violations will not be repeated”.

On perusal of the site inspection report, the committee observed that in this case the PP has not stopped the construction activities and thus it is a case of continual violation. Committee also observed that with the available documents there is no clarity about the initiation of credible action against the violation in this case. In case, the credible action has been initiated, the Honorable Court may be apprised about the continual violation. Committee further suggested that the extent of violation (construction taken place after the date of filing the affidavit) carried out by PP may be verified through the concerned Govt. authority as mentioned in MoEF OM No. J-11013/41/2006-IA. II (I) dt. 12/12/2012. File may be sent to SEIAA for necessary action.

15. **Case No. – 2806/2015 Mr. Rajesh Parchani, CEO, M/s Signature Builders, 18-19, Kolar Castle, Choonna Bhatti Square, Opp. Kali Mata Mandir, Kolar Road, Bhopal-462016 (MP)**
Prior Environment Clearance for approval of proposed Construction of Group Housing Project "Signature Residency" at Khasra No. – 299/1/1, 298/1/1, 298/2/1, 299/2, 300/2/3 (300/2/3/1(ka) , 300/2/3/2(ga), 300/2/2ka/1, 300/2/2/ga/1, 300/2/ka/2, 300/2/ga/2, Village-Banjari, Tehsil-Huzur, District-Bhopal (MP) Total Project Area- 24,600 m² (2.46 ha.,).For-Building Construction. Env. Consultant: Das India, Lucknow (U.P.)

This is a residential project comprising building construction on plot area of 2.46 Ha and total built-up area of more than 20000 m². The project is proposed at Khasra No. – 299/1/1, 298/1/1, 298/2/1, 299/2, 300/2/3 (300/2/3/1(ka) , 300/2/3/2(ga), 300/2/2ka/1, 300/2/2/ga/1, 300/2/ka/2, 300/2/ga/2, Village-Banjari, Tehsil-Huzur, District-Bhopal (MP). 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 applied for environmental clearance in MPSEIAA on 28/04/2015 and was taken up in 203rd meeting of MPSEAC. PP submitted a document stating that the construction activity has already been initiated at site. Thus it is a clear case of violation. The committee decided to return the case to MPSEIAA for credible action as per O.M. of MoEF & CC dated 12/12/2012. SEIAA vide letter no. 10090 dated 31/12/2015 has forwarded the case with documents to carry out the site visit.

As decided, Shri K. P. Nyati, Member SEAC and Shri Manohar K. Joshi, Member SEAC visited the site on 18/01/2016. During inspection, Dr. Sunil Sudhakaran, Scientist, MP Pollution Control Board, Bhopal was also present along with the PP and their consultant. **(Site inspection report is annexed as Annexure-5)**

Description of the project:

S. N	Items	Details
1.	Type of Building	Residential
2.	Total Plot Area	24,600 m ²
3.	Area under road widening	2,459 m ²
4.	Net Plot Area	22,141 m ²
5.	Ground coverage	Permissible Ground Coverage (30% of net plot area) = 6,642.3 m ² Proposed Ground Coverage: 6,642.3 m ² (30%) Multiunit development: Proposed ground coverage = 6,256.76 m ² (28.25% of net plot area) Informal sectors/ EWS Proposed ground coverage = 298.14 m ² (1.3% of the net plot area) Club House Proposed Ground coverage = 87.4 m ² (0.3% of net plot area)
6.	FAR Details	Total Permissible FAR = 32,594 m ² Permissible FAR on net plot area (1.25) = 27,676 m ² Additional FAR against road widening @ 2.0 of 2,459 = 4,918 m ² Total Proposed FAR: 32,594 m ² For Multiunit Development = 32,070.4 m ² For Club house/Recreational center = 523.6 m ²
7.	Non-FAR details	Informal Sector = 745.35 m ² Stilt Area = 5,246 m ² Service area= 243.30 m ²
8.	Total Builtup area	32,594 m ²
9.	Total open area	15,498.7 m ² (70% of net plot area) (Total plot area ó Ground coverage)
10.	Road and internal circulation space/ Paved area	11,934.25 m ² (54% of net plot area)
11.	Landscape	2,215 m ² (10% of net plot area)
12.	No. of Trees	Total no. of trees required: 1 Tree/ 100 m ² of Open Area = (Total Planning Area-Ground Coverage)/100 = 15,498.7/100 = 155 Trees Proposed: 160 Trees
13.	No of units to be developed	No. of Residential units: 456 EWS/LIG: 76
14.	No of multi dwelling units	19 Towers (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S)
15.	Height of Building	18 m Approx
16.	Area Utilization	S+6
17.	Estimated Population (fixed + floating)	Residential:2280 (@ 5 person per unit) EWS/LIG : 380 (@ 5 person per unit) Floating: 266 (10% of total population) Staff: 135 (5% of total population)

18.	Parking facilities	<p>Required : Total Required Parking = 358 Vehicle spaces (@ 100 m² per ECS of built up area) (Total Residential Parking = 326 ECS Visitor's Parking Space = 32 ECS)</p> <p>Provided: Total Provided Parking = 365 Vehicle Space Stilt Parking area = 175 Vehicle Space Open Parking area = 190 Vehicle Space</p>
19.	Power requirement & source	<p>2000 KVA Source : Madhya Pradesh Kshetra Vidyut Vitran Nigam</p>
20.	Power Backup	<p>1 DG sets of 250 kVA</p>
21.	Water Requirement and Source	<p>Fresh water for domestic use: 245 KLD Fresh water for swimming pool : 10 KLD Recycled treated water: 17 KLD Total water: 272 KLD Source: Municipal supply</p>
22.	Sewage Treatment and Disposal	<p>Amount of waste water generated : 225 KLD STP Capacity: 300 KLD Technology: FAB</p>

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 24,600 Sq.m. and the proposed built up area of the project is 32,594 Sq.m.
- The Project is group housing with all the basic amenities. The construction work for the project is already initiated. Most of the civil work has already been completed. Construction status for different residential blocks is different. As per the information provided by PP during site visit, construction was ceased before applying for environment clearance. Construction activities were observed on the during site visit and was at the verge of completion of the project. It's a case of continual violation of construction.
- 3 numbers of Entry/exit to the project site is through 24 m wide approach road. Main entry exit is 12 m wide while all the roads for internal circulation are 6 m, 7.5 m and 9 m wide. The entire internal road network has already been constructed on site. Peripheral plantation is already present along the project boundary.
- As per the information provided PP, drainage pattern of the project is 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 17 towers having 456 flats and 76 LIG units. LIG units were in the initial stage of construction.
- For conflict free traffic and fire tender movement, arterial roads of 6 m, 7.5m and 12 m has been provided. Clear circular roadway has been provided along the periphery of the project. Fire fighting equipments, such as wet risers and hose reels are present at site.
- As per the information provided by the PP during the site visit, the water requirement for the residents will be sourced through the municipal supply. No STP has been constructed on the site and also the site identified for the STP is inappropriate.
- Area for construction of a 48 hours MSW collection space has already been demarcated. Large containers are provided to collect the MSW generated from the household. As per PP the segregated MSW along with dried sludge will be handed over to Municipal Corporation.
- As per the information provided by PP, 5 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. 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, 2,215 Sq.m of area is dedicated for the landscaping purposes as per T&CP norms. PP also ensured to provide peripheral plantation and plantation in landscape area.
- 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 committee observed that as per the OM No. J-11013/41/2006-IA.II (I) dated 12/12/2012 it is clearly stated that:

“The matter relating to the violation will needs to be put-up by the PP to the Board of Directors of its company or to the Managing Committee/CEO of the society, Trust, partnership/ individually owned concern for consideration of its environmental related policy/plan of action as also a written commitment in the form of a formal resolution to be submitted to the MoEF to ensure that the violations will not be repeated”.

On perusal of the site inspection report, the committee observed that in this case the PP has not stopped the construction activities and thus it is a case of continual violation. Committee also observed that with the available documents there is no clarity about the initiation of credible action the violation in this case. In case, the credible action has been initiated, the Honorable Court

may be appraised about the continual violation. Committee further suggested that the extent of violation (construction taken place after the date of filling the affidavit) carried out by PP may be verified through the concerned Govt. authority as mentioned in MoEF OM No. J-11013/41/2006-IA. II (I) dt. 12/12/2012. File may be sent to SEIAA for necessary action.

16. **Case No.- 2886/2015 Shri Dilawar Khan, Manager, M/s Danish Housing Co-op Society Pvt. Ltd., 216-A, Zone-1, Maharana Pratap Nagar, Bhopal-462011 (MP) Prior Environment Clearance for approval of proposed Residential Development Project "West End Avenue" at Part of Khasra No. -69, situated at Danish Hills View Colony, Village-Damkheda Kolar Road, Tehsil-Huzur, District-Bhopal (MP) Total Land Area- 1,53,100 m² Proposed Scheme Area- 15,380 sq mt, Total Built up Area- 24,755.26 sq. mt., For- Building Construction. [Env. Consultant:Das India, Lucknow (U.P.)]**

The case was applied for environmental clearance in MPSEIAA on 28/04/2015 and was taken up in 203rd meeting of MPSEAC. PP submitted a document stating that the construction activity has already been initiated at site. Thus it is a clear case of violation. The committee decided to return the case to MPSEIAA for credible action as per O.M. of MoEF & CC dated 12/12/2012. SEIAA vide letter no. 10091 dated 31/12/2015 has forwarded the case with documents pertaining to carryout site visit the site.

As decided, Shri K. P. Nyati, Member SEAC and Shri Manohar K. Joshi, Member SEAC visited the site on 18/01/2016. During inspection, Dr. Sunil Sudhakaran, Scientist, MP Pollution Control Board, Bhopal was also present along with the PP and their consultant. **(Site inspection report is annexed as Annexure-6)**

Description of the project:

Items	Details
Type of Building	Residential
Proposed Scheme Area	15,380 sq mt
Area Under 24 m wide road widening	2,116.61 sq mt
Net Planning Area	13263.39 sq mt

Ground Coverage	Permissible: 3979 sq mt (30%) Proposed: 3979 sq mt (30%)
FAR	Permissible: 21,870.75 sqm Proposed: 20,186.5 sqm
Stilt area	3060 sqm
Area open for services	132.63 sqm
Built up area	24,755.26 sqm
Green Area	Proposed:1326 sq mt

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 15,380 Sq.m. and the proposed built up area of the project is 24,755.26 Sq.m.
- The Project is group housing with all the basic amenities. The construction work for the project is already initiated and foundations and structural work for few blocks have been started. Construction status for different residential blocks is different. There was no construction work on site during site visit. As informed by representative of PP about 10% of the construction work is completed and no construction work was carried out since the PP applied for Environment Clearance.
- It was found that presently, during site visit no construction work was going on. Construction work is stopped in 3 blocks and construction is not initiated in rest of the blocks.
- 1 numbers of Entry/exit to the project site is through 24 m wide approach road. Main entry exit is 9 m wide while all the roads for internal circulation are 6 m wide. Roads have not been constructed.

- As per the information provided by representative of PP, drainage pattern of the project is north of the project site towards the spillway of Kaliyasot Dam. The position of STP is decided with keeping in view the natural drainage pattern of the project site.
- There are 168 no of flats with 26 nos of LIG/EWS units, distributed in 7 blocks. During site visit it was observed that few blocks are in initial stage of construction and no units are complete.
- 6 m wide clear 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, the water requirement for the residents will be sourced through the municipal supply. Site for STP installation is already demarcated within the project boundaries.
- PP ensured that all the residential units will be equipped with dual plumbing system to consume the recycled water for flushing in order to reduce fresh water demand. Dedicated treated water storage tanks will be provided on the top of each block.
- Area for construction of a 48 MSW collection space has already been demarcated. As per PP the segregated MSW along with dried sludge will be handed over to Municipal Corporation at their expense.
- 2 No of Rain Water harvesting structure are proposed for the harvesting of roof top runoff water. 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, 1,326 Sq.m of area is dedicated for the landscaping purposes as per T&CP norms. PP also ensured to provide peripheral plantation and plantation in landscape area.
- PP also ensured to install energy saving appliances such as LED, CFL lightings in common areas. PP is also exploring the possibilities of solar lighting for the project.

The above report of the sub-committee was placed before the committee wherein after

deliberations committee decided that from the above inspection report it is clear that there was no construction work on site during site visit. As informed by representative of PP about 10% of the construction work is completed and no construction work was carried out since the PP applied for Environment Clearance. Committee also observed that with the available documents there is no clarity about the initiation of credible action in this case. The file may be sent to SEIAA for necessary action.

17. Case No. – 2686/2015 Mr. Rajesh Parchani, Signature Infrastructure, 15-16, Comfort Enclave, E-8 Extension, Babadiya Kalan, Bhopal-462042 (M.P.). Prior Environment Clearance for proposed Residential Project "Signature City" at Khasra No. – 163/1, 163/2, 163/3, 164/4, 165, 166, 167, 168, 169/1, 169/2, 172/2, Village-Bagli & Barrai Khasra No. - 326, Tehsil-Huzur, District-Bhopal (M.P.) Total Plot Area- 80970 m² Total Built up Area- 81238.36 m² (MPVPR).

This is a building construction project comprising a Residential complex. Proposed plot area is 80970 m² and total built-up area is 81238.36 m². The project is proposed at *Khasra No. – 163/1, 163/2, 163/3, 164/4, 165, 166, 167, 168, 169/1, 169/2, 172/2, Village-Bagli & Barrai Khasra No. - 326, Tehsil-Huzur, District-Bhopal (M.P.)*. By virtue of type and size of the project falls under category 8(a) ó B2 as per the schedule of the EIA notification hence requires prior EC from SEIAA before commencement of activity at site. Application along with the relevant documents was forwarded to SEAC by SEIAA for appraisal and necessary recommendations.

The case was applied for environmental clearance in MPSEIAA on 26/03/2015 and was taken up in 196rd meeting of MPSEAC. PP submitted a document stating that the construction activity has already been initiated at site. Thus it is a clear case of violation. The committee decided to return the case to MPSEIAA for credible action as per O.M. of MoEF & CC dated 12/12/2012. SEIAA vide letter no. 10125 dated 02/01/2016 forwarded back the case to SEAC with recommendations for site inspection. SEAC has decided to visit the site, before appraisal of the case, the same has been directed by SEIAA for violation cases.

As decided, Shri K. P. Nyati, Member SEAC and Shri Manohar K. Joshi, Member SEAC visited the site on 18/01/2016. During inspection, Dr. Sunil Sudhakaran, Scientist, MP Pollution Control Board, Bhopal was also present along with the PP and their consultant. **(Site inspection report is annexed as Annexure-7)**

Description of the project:

Items	Details
Type of Building	Residential

Total Land Area	80970.0 m ²
Plotted Area <ul style="list-style-type: none"> • Plotted Area (including 10% L.I.G) • Green Area • Open for service Area • Road Area • Nursery School • Informal Sector 	72444.02 m ² 41789.83 m ² 7244.402 m ² 724.44 m ² 19707.36 m ² 813 m ² 2164.98 m ²
Multiunit Residential <ul style="list-style-type: none"> • Area under road widening 24 m and 12 m wide road • Net planning area • Open area & Service area • Green Area • Area for internal circulation 	8525.98 m ² 1640.36 m ² 6885.62 m ² 1358.91 m ² 688 m ² 1061 m ²
Ground Coverage	Permissible Ground Coverage for plotted development (50% of 41789.83 m ²) = 20894.91 m ² Permissible Ground Coverage for Multi-dwelling unit (30% of 6885.62 m ²) = 2065.68 m ² Permissible Ground Coverage for Nursery school (33% of 813 m ²) = 268.29 m ² Permissible Ground Coverage for Club House (30% of 543.76 m ²) = 163.13 m ² Permissible Ground Coverage for Informal sector (28% of 2164.98 m ²) = 607.27m ² Total proposed ground coverage = 23,999.28 m ²
FAR	Permissible FAR for Plotted Development (1.25) Pearl Villa (157x150.55) = 23636.35 m ² Oyster Villa (240x162.17) = 38920.80 m ² Club (1) = 543.76 m ² Nursery School (1) = 813 m ² Permissible FAR for multi-unit development (1.25) = 8607.025 m ² Compensatory FAR: 4100.9 m ² (1640.36 m ² * 2.5) Permissible FAR = 12707.925 m ² (8607.025 m ² + 4100.9 m ²) Total Permissible FAR = 76621.835 m ² Total Proposed FAR = 76621.835m ²
Total (Non- FAR area)	Stilt Area: 2000 m ² LIG = 2792.52 m ² EWS/ Informal Sector = 1824 m ² Total: 4616.52m ²
Built up area	81238.36 m ² (FAR for Multi-unit Development + Villas+ Club+ Nursery School+ LIG/EWS)
Landscape	7932 m ² (10% of total plot area)
No. of Trees	Total no. of trees required: 1 Tree/ 100 m ² of Open Area = 553303.6/100 = 553.30 = 553 Trees Proposed: 600 Trees
Number of floors	S+6 floors

Parking facilities	Plotted Development: Individual Parking Multi Dwelling Unit and Informal sector: 94 Total parking required = 86 Vehicle Space (@ 100 sqm far area Visitors Parking : 8 Vehicle Space Provided 6 100 Vehicle Space (In stilt and Open)
Power requirement & source	2595 kVA Source : Madhya Pradesh Kshetra Vidyut Vitran Company Limited
Power Backup	1 DG set of 160 kVA
Water Requirement and Source	508 KLD Source: Municipal supply
Estimated Population (fixed + floating)	Plotted Development/ Villas: 1985 LIG: 180 Residential: 605 EWS: 380 Staffs: 50
Height of the Building	18 m (S+6)

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 80,970 Sq.m. and the proposed built up area of the project is 81,238.36 Sq.m.
- The Project consists of duplexes and group housing with all the basic amenities. The construction work for the project is already initiated. Some of the civil work has already been completed. Construction status for different residential blocks is different. As per the information provided by PP during site visit, construction was ceased before applying for environment clearance. There was no construction work on site during site visit.
- Entry/ exit in the project is through 24 m wide katara hills road. All the internal circulation roads are 12 m and 7.5 wide. Some internal roads have already been constructed on site. Peripheral plantation is present along the project boundary.
- There are 397 duplexes and 121 apartments are proposed in the project. 76 nos of EWS and 36 nos of LIG units are also proposed. Civil constructions of some units have been completed.
- For conflict free traffic and fire tender movement, arterial roads of 12 m and 7.5 m are proposed. Clear peripheral roadway is proposed along the periphery of the project. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are 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 400 KLD is proposed. Civil work of STP has already completed. STP will be functional after occupancy in the project. 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 demarcated near the STP area.
- As per the information provided by PP, 7 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. None of the rain water harvesting structures is complete yet. 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, 7,932 Sq.m (10%) of area is dedicated for the landscaping purposes. PP also ensured to provide peripheral plantation and plantation in landscape area.
- 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 decided that from the above inspection report it is clear that there was no construction work on site during site visit. As per the information provided by PP during site visit, construction was stopped before applying for environment clearance. Committee also observed that with the available documents, there is no clarity about the initiation of credible action in this case. File may be sent to SEIAA for necessary action.

18. **Case No. 775 /2012 - Sh. Umesh Lilani, M/s Man Developments, G-9, Man Heritage, 6/2 South, Tukoganj, Indore, Distt. - Indore(M.P.)- Proposed Residential Complex " Royal Amar Greens" at Khasra No. 37/1/2,38/1/2, 38/1/2, 38/1, 38/2, 39/1/1, 39/1/2, 39/1/3, Niranjapur, Indore (M.P.) Total Plot Land Area: 20,350 m², Total Built Up Area – 45,159.98 m² Building Construction.**

Background

The application for the grant of environmental clearance for the project was submitted at MPSEIAA on 12/07/2012. The case was discussed in SEAC meetings 104th dtd 30.09.12,

106th dtd 10.10.12, 109th dtd 06.11.12, and 119th dtd 02.02.13 and in 119th SEAC meeting case was recommended for the grant of EC subject to conditions.

SEIAA vides letter no. 10107 dated 01/01/2016 forwarded back the case to SEAC with recommendations for site inspection.

In the view of above background a team of SEAC members comprises Shri. K P Nyati and Shri Rameshwar Maheshwari inspected the site on 14.02.2016 along with Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. **(Site inspection report is annexed as Annexure-9)**

Major observations of committee during the site visit of the project are:

1. It was confirmed with the PP during the site visit that the total land area of the project is 20,350 Sq.m. and the proposed built up area of the project is 45,159.98 Sq.m. which is same as in application filed for environment clearance.
2. No on-going construction activities were observed during site visit and also no residual evidence of continual construction could be seen on the site.
3. The Project consists of group housing with all the basic amenities. As per the information provided by PP during the site visit, 5 blocks of the project had already been constructed along with the club house and 1 block was under construction. The construction work has not been initiated in 2 blocks. Some possessions have already been given in the constructed block.
4. Peripheral plantation, plantation in the open areas/parks has already been provided. PP has developed a green belt area outside the project boundary. Total green area proposed for plantation and landscaping is 2,136 m² which is 11% of the total plot area.
5. The project has 2 numbers of Entry/exits. One from 30 m wide master plan road and the other is from 12 m wide road. Main entry/exit road is 12 m wide and all the other arterial roads are 6 m and 7.5 m wide for conflict free movement of Traffic and fire tenders in case of emergency. Roads have already been constructed.
6. The source of water supply is ground water. On site STP of 225 KLD has already been constructed in the basement. During inspection it was observed that the existing STP does not have the sufficient holding capacity for effluent and thus it was

suggested by the committee that an additional holding tank be provided so that at least 24 hour holding capacity is available.

7. Dual plumbing facility is present in residential units for recycling of treated water for flushing and irrigation.
8. Separate fresh water, treated water and fire water storage tanks were provided present on roof tops of already constructed blocks. During the site visit PP ensured that these facilities will also be provided in the remaining blocks.
9. It was told by PP during site visit that at the present occupancy status of the project no surplus treated water is produced. All the treated water is being consumed in horticulture and flushing.
10. PP has earmarked an area for municipal solid waste collection inside the project premises. 2 different colored containers are provided for the source segregation of the municipal solid waste material. Color coded plastic bins have been installed on each floor for collection of waste from the occupants. PP informed during the site visit that Municipal Agency ensures the timely collection and disposal of municipal solid waste on the paid basis.
11. Total 2 numbers of RWH pits are proposed on site for the rain water harvesting. Proposed rain water harvesting structure is only for roof top harvesting. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
12. Solar lighting provisions are there for street lighting and lighting in common areas to reduce the electricity consumption.
13. Car/ bike parking space for the residents is provided in the basement/ stilt area. Sufficient car parking space is present in basement and stilt area. Dedicated car parking spaces are provided marked with flat nos. As per PP about 384 car parking spaces are provided in stilt/ open area. Additional car parking is provided for visitors.
14. Adequate recreational area is provided in the form of gardens and play grounds. 1 no of club house is present. Park facilities with proper lighting arrangements have been developed. Grass landscape is provided in children's playground area.

The above report of the sub-committee was placed before the committee wherein committee observed that the application for the grant of environmental clearance for the project was submitted at MPSEIAA on 12/07/2012. The case was discussed in SEAC meetings 104th dtd 30.09.12, 106th dtd 10.10.12, 109th dtd 06.11.12, and 119th dtd 02.02.13 and in 119th SEAC meeting case was recommended for the grant of EC subject to conditions. Case was discussed in 274th SEIAA meeting dated 23.12.15 where it was decided to return the case back to the SEAC with the directions to make a site visit. Thus after deliberations committee decided that since no on-going construction activities were observed during site visit and also no residual evidence of continual construction could be seen on the site, the above inspection report along with the case file may be sent to SEIAA for necessary action.

19. Case No.229/2008 – M/s Twenty first century Developers Pvt Ltd 6th Floor, Treasure Island - II, Tukoganj, Main Road , Indore M.P. Residential Township project at village Bijalpur, Indore- M.P.

BACKGROUND

This is a building construction project with proposed plot area of 349514.82 m² & total built-up area of 305920.76 m² hence covered in the schedule of EIA notification 2006 as amended from time to time as item no. 8(a). Hence the project requires prior EC from SEIAA. The application along with the annexure was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

It was submitted by the PP that construction activities have been initiated at site admitting violation of the provisions of EIA Notification. PP has submitted a copy of Resolution along with evidence of credible legal action against the PP for the caused violation, in compliance to the O.M. of MoEF dated 12/12/2012.

Brief history of the project

The Project application was initially submitted to SEIAA, MP on dated 21st October, 2008 and case was considered in 16th Meeting of State Expert Appraisal Committee held on 15th November, 2008. During Presentation some points were raised by SEAC and point wise reply of points was submitted by PP on dated 07.02.2009. The case was again considered in 22nd Meeting of State Expert Appraisal Committee held on 26th March, 2009 and PP was asked to submit CGWA permission. CGWA permission was submitted by PP on dated 20.10.2009. Case was again considered and recommended for EC by SEAC after Environmental Appraisal. The case was considered in 25th meeting by SEIAA held on 04.12.2009, during

discussion some queries raised by SEIAA. Point wise- reply to queries raised by SEIAA, was submitted by PP on dated 14.06.2010. In the mean time as the chairman of SEIAA had resigned therefore the case file was moved/ transferred to MoEF, New Delhi for further consideration. PP had prepare the EIA/EMP Report based on Model TOR & Minutes of Meeting of similar type of project and submitted it to Director IA.III, MoEF, New Delhi on dated 15.12.2010, as the built up area is more than 1,50,000 sq. m. Case file was again moved to SEIAA after re-constitution of State Level Environment Impact Assessment Authority (SEIAA), Madhya Pradesh. The case was again considered 43rd meeting of the State Level Environment Impact Assessment Authority held on 10th December, 2010. It was concluded by the SEIAA that; the project is affected by critically polluted area having CEPI more than 70. Authority conveyed in 54th Meeting of SEIAA held on dated 21.03.2011 that General Conditions that if any project or activity specified in Category 'B' will be treated as Category 'A'. In reply of the same issue PP had submitted a letter on 05.04.2011 with a request that General & Specific conditions are not applicable on 8(a) Building and Construction projects and 8(b) Townships and Area Development projects. Case was again considered by committee on the basis of submitted EIA/EMP Report and decided to visit the site before issue additional Terms of reference, if any. The site visit of sub-committee was carried out during August, 2012 and additional Terms of reference were issued in 109th meeting held on dated 06th November, 2012. The revised EIA / EMP submitted to SEIAA on dated 19.06.2013. The project was heard for the additional TOR. Based on the presentation and submissions made by the PP the case was recommended for grant of prior EC in the 137th SEAC meeting dated 27/07/2013.

SEIAA vide letter no. 10089 dated 31/12/2015 requested to carryout site visit and submit the report of the above project.

In the view of above background a team of SEAC members comprises Shri. K P Nyati and Shri Rameshwar Maheshwari inspected the site on 15.02.2016 along with Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. During site visit Shri Vishwajeet Sarmandal, General Manager was also present. **(Site inspection report is annexed as Annexure-10)**

Shri Vishwajeet Sarmandal, General Manager informed that following is the status at the site:

Total land of the project 360120 Sq. Mtr., in which effective plot area is 349516.82 Sq. mtr., Built-up area proposed 305920.76 Sq.Mtr., in which PP will construct only 1,35,101.08 Sq. Mtr. Out of the 1,35,101.08 Sq. Mtr. PP has completed construction 76,685.08 Sq. Mtr. upto

year 2012-13, after that no construction activity has been carried out. Following details are provided by the PP at the time of inspection.

DETAIL OF CONSTRUCTION

Sr. No.	Particulars	Proposed (In Sq. Mtr.)	Completed (In Sq. Mtr.)	Balance (In Sq. Mtr.)
1	Group Housing B (Row House 83 Nos.)	16,699.20	16,699.20	00
2	Group Housing C (Premium Apartment 168 Nos. & Club House)	33,260.04	19,775.64	13,484.40
3	Group Housing D (Vihar Apartment)	77,241.84	32,310.24	44,931.60
4	EWS (Dwelling Units 273 Nos.)	7,900	7,900	00
	Total	1,35,101.08	76,685.08	58,416

DETAIL OF POSSESSION

Sr. No.	Particulars	Proposed	Possession given	Actual Occupied	Balance for Possession
1.	Plot	383	369	4	14
2.	Row House	83	32	22	51
3.	Town Apartment	168	60	33	108
4.	Vihar Apartment	624	342	194	282
5.	EWS	273	26	18	247
	TOTAL	1531	829	271	702

The project is located in village Bijalpur and major observations made by the committee during the site visit of the project are:

1. It was confirmed with the PP during the site visit that total land of the project is 360120 Sq. Mtr., Proposed Built-up area is 305920.76 Sq.Mtr., and Proposed construction area is 1,35,101.08 Sq. Mtr. Out of the 1,35,101.08 Sq. Mtr. PP has completed construction of 76,685.08 Sq. Mtr. up to year 2012-13 and after that, no construction activity has been carried out.
2. No Construction work was observed at the time of inspection in the group housing scheme. However in the plotted area where possession already given, it was observed that individual plot owners were constructing their individual houses.

3. The Project consists of group housing and individual plotted development with all the basic facilities required. During the site visit it was found that group housing blocks have already been constructed out of which some were unfinished and in finished towers possessions have been given by the PP. Rest of the site is vacant and no construction work/activities were observed at the time of inspection.
4. Approx. 33.10% of the plot area is proposed to be developed as green belt. Good plantations have been carried out by PP on the periphery and inside of the project. Children's playground and a club house are also proposed.
5. Two entry and exits will be provided for the movement of traffic.
6. PP has obtained Central Ground Water Board permission for abstraction of ground water for 1500 cum/day.
7. STPs of 1180 KLD are proposed for waste water treatment which will be located in the basement. The treated waste water will be utilized for flushing and horticulture purpose through double plumbing line laid for treated water and fresh water. PP informed that separate fresh water and treated water tanks are provided on top of already constructed blocks.
8. PP has earmarked an area for municipal solid waste collection inside the project premises for having a capacity of 48 hour garbage storage. Color coded plastic bins have been installed for collection of waste in area which are developed.
9. As per the details provided by the PP during the site visit, individual parking provisions are proposed and parking is provided in open area for residents whom possession have already been given. Sufficient parking space is available in the project. PP has proposed parking for 1966 ECS.
10. For Rain water management 59 rain water harvesting pits are proposed inside the project premises. Proper water circulation channel will be provided to collect maximum rain water at designated place.
11. Adequate recreational area is provided/proposed in the form of gardens and play grounds. Club house is also proposed. Solar lightings will be provided in the common areas of the project.

The above report of the sub-committee was placed before the committee wherein committee observed that case was recommended for grant of prior EC in the 137th SEAC meeting dated 27/07/3013. SEIAA vide letter no. 10089 dated 31/12/2015 has requested to carryout site visit and submit the report of the above project. Thus after deliberations committee decided that the above inspection report along with the case files may be sent to SEIAA for necessary action.

20. **Case No. – 1684/2013 M/s Siddivinayak Developers, Proprietor Mr. Kailash Raghuwanshi, FF - 29, 30, Shekhar Villa, 06, Scheme No. – 54, Vijay Nagar, Indore - (M.P) -452010 Building Construction. " Maple Woods " Chugh Reality Pvt. Limited, Chugh Infrastructure Pvt. Ltd. and Developers Siddhi Vinayak Developers at Khasra No. – 41/1, 41/2, 43, 56, 57, 58, 59, 60, 61/2 and 92, Village- Pipliyakumar, Tehsil & District – Indore (M.P.), Plot Area – 63 410 M² , Built up Area – 147128.75 M².**

BACKGROUND

This is a building construction project with proposed plot area of 63410 m² & total built-up area of 1,47,128.75 m² hence covered in the schedule of EIA notification 2006 as amended from time to time as item no. 8(a). Hence the project requires prior EC from SEIAA. The application along with the annexure was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

It was submitted by the PP that construction activities have been initiated at site admitting violation of the provisions of EIA Notification. PP has submitted a copy of Resolution along with evidence of credible legal action against the PP for the caused violation, in compliance to the O.M. of MoEF dated 12/12/2012. Based on the submissions PP was allowed to make the presentation before the committee.

Features of the project:

Location of project	Khasra No. 41/1, 41/2, 43, 56, 57, 58, 59, 60, 61/2 and 92, Village- Piplya Kumar, Tehsil & District -Indore, Madhya Pradesh
Plot area (m ²)	63,410
Area under road widening (m ²)	7,392
Net Planned Area (m ²)	56,018
Proposed F.A.R. (m ²)	1,13,467

Proposed Built up Area (m ²)	1,47,128.75
Maximum height of building (m)	45 m (G+15 for Residential)
Total number of flats	1,380
Permissible Ground coverage	16,805.4 m ² (30% of Net planned Area)
Proposed Ground coverage	16,749.88 m ² (29.9 % of Net Planned Area)
Green Area	15,852 m ² (28.3 % of Net Planned Area)
Total Parking	1,213 ECS (Basement - 369 ECS & Stilt - 844 ECS)
Power Requirement	3,500 kVA
Proposed capacity of DG sets	1 x 750 kVA
Water Requirement & Source	1,027 KLD (Source: Indore Municipal Corporation)
Total Solid Waste generation	2.5 ton/day
Population	6,900 residents + 200 visitors+ 100 staff

The case was recommended for EC in the 148th SEAC meeting dated 25/08/2014. SEIAA send the case to SEAC for site inspection vide letter no. 3089/ SEIAA/2015 dtd 04-07-2015.

In the view of above background a team of SEAC members comprises Shri. K P Nyati and Shri Rameshwar Maheshwari inspected the site on 14.02.2016 along with Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. **(Site inspection report is annexed as Annexure-11)**

The project is located in village Pipliyakumar and major observations made by the committee during the site visit of the project are:

1. It was confirmed with the PP during the site visit that the total land area of the project is 63,410 Sq.m. and the proposed built up area of the project is 1,47,128.75 Sq.m. which is same as in application filed for environment clearance. Construction work was not being carried out at the time of inspection.
2. The Project consists of group housing with all the basic facilities required. During the site visit it was found that 04 blocks of group housing have already been constructed. Rest of

the site is vacant and no construction work/activities were observed at the time of inspection. Internal Circulation roads, over head water tanks and STPs have already been developed and STP was not in operation as no possessions are given by the PP in this project till date.

3. Front parks & landscape area have already been developed. Some plantation approx 80 trees have been planted on some part of the periphery and open area. 1 Nos. of children's playground and a club house is also proposed.
4. 2 entry exits are available for the movement of traffic.
5. Narmada water supply is proposed for domestic water supply. Overhead tank has already been constructed. Fire fighting tanks of suitable capacity have been provided in multiunit blocks.
6. STP of 250X04 KLD (1000 KLD) are proposed for waste water treatment and are located in the basement. PP has constructed the STPs but the same are non-operational as no possessions are given. Lines have been laid for dual plumbing system in multiunit apartments.
7. Separate fresh water, treated water and fire water storage tanks are present on roof tops of already constructed blocks.
8. PP has earmarked an area for municipal solid waste collection inside the project premises for having a capacity of 48 hour garbage storage. Color coded plastic bins have been installed for collection of waste in area which are developed.
9. As per the details provided by the PP during the site visit, Individual parking provisions are proposed multiunit development units. 1213 ECS (parking) will be provided the project.
10. For Rain water management 09 rain water harvesting pits been constructed inside the project premises. Proper water circulation channel is design o collect maximum rain water at designated place.
11. Adequate recreational area is provided in the form of gardens and play grounds.1 no of club house is also proposed which was unfinished at the time of inspection. Solar lightings have been provided in the front part of the project.

The above report of the sub-committee was placed before the committee wherein committee observed that case was recommended for EC in the 148th SEAC meeting dated 25/08/2014. SEIAA send the case back to SEAC for site inspection thus after deliberations committee decided that the above inspection report along with the case files may be sent to SEIAA for necessary action.

21. **Case No.1661/2013 – M/s Arms Real Estate Developers Pvt. Ltd., Raj Bisen, Director Arms Manor, 9 FF, Scheme No.- 54, Vijay Nagar, Indore (M.P.) 452010 Building Construction. The Empress Residential Project, Plot No. – 58/2 and 58/3/2, Opp. Ashirwad Villa, Village – Nipania, Tehsil – Indore, Distt. – Indore (M.P.) Plot Area – 9470 M², Built up Area – 21177.76 M2.**

BACKGROUND

This is a building construction project with proposed plot area of 9470 m² & total built-up area of 21177.76 m² hence covered in the schedule of EIA notification 2006 as amended from time to time as item no. 8(a). Hence the project requires prior EC from SEIAA. The application along with the annexure was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

It was submitted by the PP that construction activities have been initiated at site admitting violation of the provisions of EIA Notification. PP has submitted a copy of Resolution along with evidence of credible legal action against the PP for the caused violation, in compliance to the O.M. of MoEF dated 12/12/2012.

Features of the project:

Description	Details
Type of Project	Residential
Project Location	Plot No. 58/2 and 58/3/2, Village: Nipania, Tehsil: Indore, District : Indore.
Net Plot area in	9,470 m ²
Built up area of all floors (m ²)	21,177.76 (as per sanction 42,010.04 as per statement given on 28.10.2013

Permissible FAR (m ²)	21,307.50
Proposed FAR (m ²)	16,421.32
Proposed Ground coverage (m ²)	2084.0
Green area (m ²)	2,367
Height of building	48 m
Total no. of Residential Units	250
Power Requirement & Source	2,000 KVA MPSEB/MPPKVVCL
Proposed capacity of D.G. set	62.5 kVA X 4 & 200 kVA X 1
Fresh Water Requirement & Source	Operation Phase: 115.65 KLD Source: IMC
Sewage Treatment Plant (STP)	200 KLD
Total Solid Waste Generation	0.5 ton/day
Basement Area (m ²)	2,673.2
Stilt area (m ²)	2,083.24
Surface Parking Area (m ²)	637.79
Total Number of Floors	(B + G + 16)
Total ECS	219

The case was recommended for EC in the 158th SEAC meeting dated 28/11/2014. SEIAA send the case to SEAC for site inspection vide letter no. 3094/ SEIAA/2015 dtd 04-07-2015.

In the view of above background a team of SEAC members comprises Shri. K P Nyati and Shri Rameshwar Maheshwari inspected the site on 14.02.2016 along with Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. **(Site inspection report is annexed as Annexure-11)**

The project is located in village Nipaniya and major observations made by the committee during the site visit of the project are:

1. It was confirmed with the PP during the site visit that the total land area of the project is 9,470 Sq.m. and the proposed built up area of the project is 42,010.04 Sq.m. which is same as in application filed for environment clearance. Construction work was not being carried out at the time of inspection.
2. The Project consists of group housing with all the basic facilities required. During the site visit it was found that group housing blocks have already been constructed which were unfinished. Rest of the site is vacant and no construction work/activities were observed at the time of inspection.
3. Some plantation approx 60 to 70 trees has been carried out on some part of the periphery mainly on the back side and on the one side of the project boundary. Children's playground and a club house are also proposed.
4. As per PP, 2 entry exits will be provided for the movement of traffic.
5. Narmada water supply is proposed for domestic water supply. Overhead tank has already been constructed.
6. STP of 200 KLD is proposed for waste water treatment, located in the basement. Various components of the STP were lying on the site. Lines have been laid for dual plumbing system in multiunit apartments.
7. Separate fresh water, treated water and fire water storage tanks are present on roof tops of already constructed blocks.
8. PP has earmarked an area for municipal solid waste collection inside the project premises for a capacity of 48 hour garbage storage. Color coded plastic bins have been installed for collection of waste in area which are developed.
9. As per the details provided by the PP during the site visit, Individual parking provisions are proposed and parking (219 ECS) will be provided in stilt area. Sufficient parking space is available in the project.

10. For Rain water management 02 rain water harvesting pits been constructed inside the project premises. Proper water circulation channels are there to collect maximum rain water at designated place.
11. Adequate recreational area is provided in the form of gardens and play grounds. Club house is also proposed. Solar lights will be provided in the common areas of the project.

The above report of the sub-committee was placed before the committee wherein committee observed that the case was recommended for EC in the 158th SEAC meeting dated 28/11/2014. SEIAA send the case back to SEAC for site inspection thus after deliberations committee decided that the above inspection report along with the case files may be sent to SEIAA for necessary action.

22. **Case No. - 2336/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) SEIAA letter no. 2944 dtd. 6-1-2015 Environment Clearance for approval of proposed Group Housing Project "Soumya Atlantis" at Village-Bagli, Barrai, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 75743.94 Sq.m., Total Built-upArea- 35015.95 Sq.m. Building Construction. Env. Consultant:DAS India, Lucknow (UP)**

This is a building construction project comprising development of a township in a plot area of 75743.94 m² and total built-up area proposed is 35015.95 m². It was reported by the PP that this is a case of violation where credible action has been initiated. It was submitted that approx.60% construction is complete prior to submission of application for grant of EC. The construction has been ceased presently. The application and the evidence pertaining to legal action against the PP have been forwarded by the SEIAA for appraisal of the case on merits of the project. PP and his consultant presented the salient features of the project along with the environmental aspects, the impacts from the project and the mitigation adopted / proposed. The presentation and the submission made by the PP reveal following:

Brief Description:

Items	Details
Type of Building	Residential
Total Plot Area	75743.94 m ²
Area of land under 24 m wide road	3675.22 m ²
Net Plot Area	72068.72 m ² Plotted development: 51406.34 m ² Multi-dwelling unit: 20662.38 m ²
Total Ground Coverage	Permissible Ground Coverage for plotted development (30%)=15421.9 m ² Proposed = 15421.90 m² (30%)

	Permissible ground coverage for Multi dwelling units (30%) = 6198.71 m ² Proposed= 6198.71 m² (30%) Total proposed ground coverage = 21620.61 m²
FAR	Permissible FAR for Plotted Development (1.25) Permissible FAR for Multi-dwelling unit (1.25)= 25827.9 m ² Compensatory FAR: 9188.05 m ² (3675.22 m ² *2.5) Proposed FAR for Multi Dwelling development =35015.95 m²
Total (Non- FAR area)	Stilt Area: 4500 m ² LIG /informal sectors : 1622.76 m ² Total: 6122.76m²
Built up area	35015.95 m² (Compensatory FAR+ FAR for multi unit development)
Total open area	50448.104 m² (Net Plot Area – ground Coverage)
Road and internal circulation space	25224.05 m ² (50% of open area)
Landscape	25224.05 m ² (50% of open area)
Number of floors	(S+6) Floors
Height of the Building	18 m + Stilt
Power Backup	1 DG sets of 125 kVA
Water Requirement and Source	628 KLD (Fresh water: 371 KLD, Recycled water: 257 KLD) Source: Ground water till the municipal supply is available
Sewage Treatment and Disposal	STP Capacity: 500 KLD Technology used: FAB
Total Solid Waste Generated	Approx. Approx. 3098 kg/day
Estimated Population (fixed + floating)	Residential including LIG: 3595 Plotted development: 1435 Visitors: 500 Staffs: 50 School : 1850 Entertainment building :55
Parking facilities	For plotted development : Open parking For Multi-dwelling unit Development: Required Parking required = 200 Vehicle Space @ 175 m ² builtup/ ECS (as per M. P. Vikas Rule, 2007) Visitorø parking (10% of residential parking) = 20 Vehicle Space Total parking required= 220 Vehicle space Four wheeler (75% of total Stilt Area) @ 30 m ² per Vehicle Space= 112 Vehicle Space Two wheeler (25% of total Stilt Area) @ 10 m ² per two wheeler = 112 Vehicle Space Provided parking – 224 Vehicle Space

Project Facilities:

- “ Entrance gate with smooth bell mouth entry/ exit & security.
- “ Visitors Parking
- “ 2 BHK and 3 BHK Apartments and Plots

- “ Convenient shopping/ Entertainment club
- “ Place for senior citizens
- “ Children's play ground
- “ Sound infrastructures
- “ Disabled Friendly design

Environmental Management Plan

- Provision of Dual Plumbing in multi dwelling units.
- Disabled- friendly design with ramps etc.
- DG sets are to be provided within acoustic enclosures with height of chimney as specified by MoEF and stack emissions from DG set to be monitored.
- Implement good working practices (equipment selection and siting) to minimize noise and also reduce its impacts on human health (ear muffs, safe distances, and enclosures).
- Exhaust from vehicles to be minimized by use of fuel efficient and well maintained vehicles having PUC certificate.
- Green belt to be provided with dust and noise absorbing species.
- Dust suppression through water sprinkling.
- Waste water will be treated in STP for recycling.
- Rain water collection in pits along the low lying areas of slope.
- Recycling of tertiary treated water to reduce dependency on ground water.
- Ensure drainage system and specific design measures are working effectively.
- Vehicles transporting loose construction material should be covered.
- Vehicle trips to be minimized to the extent possible.
- Tire washing at entry and exit points to prevent transportation of soil and dust, to and fro from the site.
- Maximum utilization of natural light.
- Minimum glazing factor in regularly occupied spaces.

The case was discussed in the 182nd SEAC meeting dated 28/03/2015 wherein after deliberations, committee decided to visit the project site along with 05 other similar projects before making final recommendations.

As per decision of SEAC in its 182nd meeting dated: 28th March 2015 above 06 cases of building construction were inspected by a sub-committee of SEAC comprising of Dr. Mohini Saxena Member SEAC and Shri A.P. Srivastava Member SEAC during 15th and 16th April, 2015 wherein certain details were sought from the PP and if the desired details are submitted by PP within reasonable time of 02 weeks (PP agreed for one week) the cases may be examined and PP's commitment may be taken with time schedule in the form of affidavit. Else the case may be recommended for rejection.

The PP has submitted the response to above quarries vides letter dated 03/06/2015 and 05/06/2015 which was again examined by the sub-committee which inspected the above sites in continuation to the earlier site and recommends that ÷Being defaulter cases, it is clear that PP ignored the provisions of Environment Protection in these projects not only at planning stage but also at the construction stage. These six projects are not meeting most of the norms set for Environment Protection. Moreover, it is extremely difficult to implement environment Protection measures at this advance stage of completion of these projectsö.

In view of the above, these six cases may not be recommended for grant of EC MPSEIAA may be recommended to issue directions to stop all construction & development activities with immediate effect. An advertisement stating the decision in these cases may be given in local News Papers in the larger public interest.

The above site inspection report of the sub-committee, response from the PP to the quarries and subsequent comments and recommendations made by the sub-committee were placed before the committee in the 229th meeting of SEAC dated 01/10/2015 wherein after discussions & deliberations committee, while agreeing with the recommendations of the sub-committee, decided that in the view of the recommendations made by the sub-committee these above six cases (2335/15, 2336/15, 2337/15, 2338/15, 2339/15 & 2340/15) cannot be recommended for grant of Environmental clearance at this stage.

All the above six cases of building construction including the present case were sent back by SEIAA vides letter no. 7510 dated 09/11/2015 to consider the cases individually and give recommendations separately.

The above letter along with the case files were placed before the committee in the 255th SEAC meeting dated 02/01/2016 wherein committee after deliberations decided that a site inspection of all the above cases be carried out to verify the present status of all the cases and make recommendations for each case separately and as per decision of SEAC in its 255th meeting dated 02/01/2016.

As decided, these cases of building construction were inspected by a sub-committee of SEAC comprising of Shri. K. P. Nyati, Dr. Mohini Saxena and Shri Manohar K. Joshi, Member SEAC on 17/01/2016.

As all the projects belong to same group, PP made a power point presentation of all the six projects on the activities carried out by them for implementation of the recommendations made by the previous committee and the project wise observations of the committee are as follows:

Sl No.	Queries raised in site visit report of April,2015	Response from the project proponent now for proposed Group Housing Project "Soumya Atlantis"	Compliance status as on inspection date 17/01/2016																				
1.	<p>All the 6 projects are in advance stage of completion of construction. Possession of a good number of dwelling units has been given and many of them have been occupied. Many more are ready possession. All though number of dwelling units in each case were verbally informed by the project proponents, they have requested to provide exist detail of occupancy/handed over possession and completion of dwelling units ready to hand over possession. Quantum of left out were in each other projects may be also be submitted.</p>	<p>Details of total no of proposed units, units under possession and units ready for possession in the proposed project are mentioned in the table below:</p> <table border="1" data-bbox="456 432 1040 768"> <thead> <tr> <th>No of Units</th> <th>Prop osed units</th> <th>Posse ssion given</th> <th>Under constru ction</th> <th>Units complet ed</th> </tr> </thead> <tbody> <tr> <td>Flats</td> <td>654</td> <td>----</td> <td>66</td> <td>102</td> </tr> <tr> <td>Duple xes/ Plots</td> <td>287</td> <td>30</td> <td>83</td> <td>120</td> </tr> <tr> <td>LIG/ EWS</td> <td>65</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table> <p>Approximately 60 % of civil work is completed, resolution is already provided by the pp along with application. Occupancy :-16 duplexes</p>	No of Units	Prop osed units	Posse ssion given	Under constru ction	Units complet ed	Flats	654	----	66	102	Duple xes/ Plots	287	30	83	120	LIG/ EWS	65	--	--	--	<p>It was informed by the PP during the site visit that the total land area of the project is 75,743.94 Sq.m. and the proposed built up area of the project is 35,015.95 Sq.m. which is same as in application filed for environment clearance. Some amount of construction work has already undertaken, PP has submitted a resolution along with the application for the same.</p> <p>The Project consists of group housing & duplex colony with all the basic amenities. Some group housing blocks and duplexes have already been constructed & 30 possessions have been given.</p> <p>During site inspection no construction activity has been observed.</p> <p>As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance and the same could not be observed at the time of inspection.</p>
No of Units	Prop osed units	Posse ssion given	Under constru ction	Units complet ed																			
Flats	654	----	66	102																			
Duple xes/ Plots	287	30	83	120																			
LIG/ EWS	65	--	--	--																			
2.	<p>PP stated that all the project were as per master plan 2021 and land use shown in master plan 2021as residential hence will not required any diversion of land use from agriculture to residential. As master plan 2021 is not yet approve/published and applicable, the entire project required diversion of land use even if</p>	<p>Land use of the proposed project is residential as per the master plan 2005. Land use certificate based on Master plan 2005 and land diversion certificates are attached as Annexure-I & II.</p>	<p>As per the details provided by PP during site inspection, the project is within the boundaries of Bhopal Master Plan 2005 of Bhopal Development Authority. The land use of the project land is residential and documents related to land diversion and ownership of land have already been submitted along with application.</p>																				

	covered under master plan 2005. Project Proponent informed that they have obtained land use diversion in many and agreed to submit a copy of such approvals in respect of all the 6 projects.		
3.	<p>No significant plantation has been done in any of the six projects. Except for Tulip Green (Case No.2338) on Kolar road all other five projects around Hoshangabad Road have literally no space for plantation. Even as per T &CP approval and less than 10% of total allocated land to be used for plantation. Even T & CP requirement is not complied in any of the five projects. However, project proponent insisted that they will provide plantation as per requirement of EC and have agreed to provide layout plan in each project including Tulip Green showing location of plantation, number of trees & their species on their site plan & will submit it to SEAC</p>	<p>Project layout plan is already approved from T&CP. Wherein we are required to provide 10 % open area. However we are providing 15% (10,810 sqm) of plot area as open area for landscaping & plantation. The area includes green area provided inside the duplexes. The details are available in the plans.</p> <p>Road side plantation, Plantation in the open areas and along the periphery of the project will be provided by creating suitable site conditions. About 500 trees are proposed to be planted on the site and survival shall be ensured. All this can be verified during our compliances.</p> <p>STP location, MSW storage site is already marked on layout plan.</p>	<p>Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP, a sum total of 951 trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is approximately 15% of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.</p> <p>Individual green patches are also provided inside the duplex boundaries.</p>
4.	Except the Fortune Signature (Case No. 2337), all other project have only one entry & exit gate.	The project is already having two numbers of entry exits, one from 24 m wide master plan road in the west of project and other from 24 m wide roads situated west and north-east, respectively.	2 numbers of Entry/exit is present on the project site, through 24 m wide master plan road in west and another 24 m wide road in east. Main entry

	<p>Project proponent has been asked to provide a minimum of two gates necessary for fire & other emergency situation. They have been asked to provide circular roads & adequate width of other roads also for movement of fire tenders & its approach to end. Conflict free movements, aspect of movement during any emergency have not been taken into consideration while providing internal traffic circulation system of roads. They have been asked to obtain approval of fire fighter Deptt. For entire projects</p>	<p>The project has adequate networks of roads duly compliant with fire safety norms and fire NOC will be taken from fire department at the earliest. Internal circulation roads network is of 12 m, 9 m, 7.5 m and 6 m of width, which will provide conflict free movement for fire tenders during emergency. The road widths are in conformance with the T&CP rules.</p>	<p>exit is 15 m wide and all the other arterial roads are 6 m, 7.5 m, 9 m and 12 m wide for conflict free Movement of Traffic and fire tenders in case of emergency. Roads have already been constructed.</p>
<p>5.</p>	<p>STP - In all the projects except Tulip green, STP have been provided under ground. These STPs are based on FAB technology but found of lower capacity. Other issued related with STP are as follows</p> <p>(a) There is no proper access provided for under ground STP and there for no STP could be inspected. None of the STP was working to the satisfaction as adjudged from inflow, laid down sewage collection</p>	<p>Currently, only 16 duplexes are occupied and the total project population is about 80 persons. Total sewage generation from the project is about 7 KLD. As the amount of sewage generation is very low to operate the STP, presently the STP is being used as sewage storage tank only. Storage tanks are being regularly cleaned by BMC sewage tankers. Presently, Fresh water is being utilized for flushing and horticulture, till the STP becomes functional. STP treated water will be recycled using dual plumbing for flushing and irrigation purposes. Dual plumbing will also be provided in rest, yet to construct duplexes.</p> <p>In the project Machine room for STP is located below ground level and is easily accessible through standby ladders. For maintenance of underground tanks standby ladders are provided. All necessary protective gears have been provided on site. Color coded pipes will be provided for dual plumbing system.</p>	<p>As per the details provided by PP, project has a provision for 135lpcd water supply. The source of water supply is municipal supply lines. On site STPs of 550 KLD have already been constructed and were found operational during the site visit. Machine / pump room are constructed below the ground level and ladder is installed for convenient access to the machine room. The STP installed on the project land but is separated through 24m wide master plan road. Although the road is not functional till date, PP has provided a box type culvert to secure the pipes form the running traffic. Wooden chambers are provided around the pumps/ machines to reduce the noise level. Sludge pump along with filter</p>

	<p>system its operation and effluent quality. PP has agreed to provide safe access to underground STP and design details and operational to manual to SEAC to assess its adequacy for targeted standards.</p> <p>(b) PP is to provide water supply @ 135 LPCD as per standards set by urban development. It will enhance sewage generation. PP has agreed to submit new water balance in also agreed to enhance the capacity of STP so as to treat additional sewage generated.</p> <p>(c) No dual plumbing has been provided by the project proponent. At this advance stage of completion of project, it is not practically possible to provide dual plumbing in any of the 6 projects. The aspect of treated water recycling, reuse and water conservation has been overlooked.</p>	<p>The surplus treated water will only be discharged into natural drains after tertiary Treatment and ensuring that it meets required IS : 2490(1974) standards.</p> <p>The pp commits to a properly functional STP, ensuring recycling of water using dual plumbing in all flats and use of recycled water for other common activities such as irrigation & road washing.</p> <p>The pp is ensuring that wherever the STP placements is affected by road crossing, the sewer lines underneath the road will be protected with Box type culverts.</p>	<p>press is installed at site for removal of excess sludge. Stand by ladders along with personal protective equipments are provided to ease the access to underground tanks for the occasional maintenance work.</p> <p>Color coded recycled water lines (dual plumbing) are provided in the multi storied buildings only and in the green areas for flushing and irrigation use. Color coded treated water storage tanks are installed on the top of each block to facilitate dual plumbing. Recycled water lines are marked with sinages. PP also ensured that dual plumbing lines will also be provided in yet to be constructed duplexes.</p> <p>It was told by PP during site visit that the present occupancy of the project is very less and there is no generation of surplus treated water on site till date. All the treated water is being consumed in irrigation and flushing. In future if there will be any surplus treated water; it will be discharged in Municipal Drains/ Nallah after tertiary treatment. Necessary permission for the discharge of treated sewage has already been obtained from the Nagar Nigam Bhopal.</p>
<p>6.</p>	<p>Management of MSW (post construction) No infrastructure MSW collection has been provided. No MSW storage is provided for two day generation capacity. Barring Tulip Green</p>	<p>After full occupancy total MSW generation is estimated to 3.1 T/day. The provision of 48 hours garbage storage for a volume of 14 m³ is proposed on site using covered containers. Location and accessibility is already marked on layout plans</p> <p>Twin bin collection system with color-coded bins will be provided for source segregation of waste material. Door to door collection system will be provided using</p>	<p>PP has earmarked an area for municipal solid waste collection inside the project premises near the STP. 2 different colored containers are provided for the source segregation of the municipal solid waste material. Color coded plastic bins have been installed on each floor for collection of waste from the</p>

	no project has adequate land left for providing such storage. If there is any, the PP has been required to submit the details of MSW storage space with its location marked on site plan.	service lifts. Aesthetics near the common collection center will maintained and the total storage time will not be more than 48 hours For safe disposal of MSW tie up has been made with BMC.	occupants. PP informed during the site visit that Municipal Corporation Bhopal ensures the timely disposal of waste material on the paid basis. NOC for garbage disposal has already been procured.
7.	Only roof water harvesting is provided.	As per CGWB guidelines adequate no. of RHW pits will be provided for roof water harvesting and water from paved area will be managed through storm water drain.	Rain water harvesting structures are present at site. Total 17 numbers of RHW pits proposed for the rain water harvesting of the project site. During site visit it is verified that some RHW pits were completed. Collection and transportation structures required for roof top rain water is present.
8.	No solar geysers/hot water system and no solar street light have been installed, to minimize power consumption and promote use of renewal energy source. PP has been asked to provided details if proposed/planned.	10% of solar lighting will be provided for street lighting and 20% solar lighting will be ensured in common areas.	PP ensured to provide 10% of solar lighting for street lighting and 20% solar lighting in common areas. At present, approx 10 nos. of solar street lights already installed at site. LEDs/ CFLs are provided in common areas to reduce the electricity consumption.
9.	Most of the land/area is covered with concrete/paved surface. There is not must possibility to use treated water for plantation/horticulture.	Based on discussion during visit, plantation and landscape areas have been reworked which is approximately 15 % of net plot area. Recycled water will be used for irrigation purposes, which is approximately 54 KLD to cater 10,810 sqm of Green area. At present no treated water is being utilized for irrigation or flushing. After occupancy treated water will be used for flushing (100 KLD) and road washing (15 KLD). Surplus water available if any will be discharged into natural drains after tertiary treatment.	Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP, a sum total of 951 trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is approximately 15% of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation. Individual green patches are also provided inside the duplex boundaries.

10.	Parking provided appeared in adequate. PP has been required to provide basic of parking spaces and resubmit the parking plan including covered, basement and open parking area not clearly on it.	As per MoEF norms regulation parking space is required for 350 vehicles (1 ECS/100 sqmbuiltup area). About 370 parking spaces are provided in stilt area and open areas. Additional visitors parking will also be provided in open area. Individual parking facility will be provided for duplexes.	Car/ bike parking space for the residents is provided in the stilt/open area. Dedicated car parking spaces are provided marked with flat nos. as per PP about 370 car parking spaces are provided in stilt/ open area. Additional car parking is provided for visitors. Individual parking space is present in duplexes.
11.	Details of available corpus fund and its financial management for O & M of STP, MSW management and other aspect of CMP may be submitted for consideration of SEAC.	The pp in collaboration with owners has been created a corpus fund. One time fixed amount of Rs. 10,000 is being charged to the flat owners and Rs. 15,000 to the duplex owners at the time of possession. After complete occupancy in 654 flats and 287 duplexes corpus fund amount will be Rs. 1,08,45,000 which will be handed over to RWA. Corpus fund will be maintained by project proponent till RWA is not created. Fixed monthly maintenance charge of about Rs. 1200- 1500/months from every resident for common services and maintenance will be done by the builders till Dec-2016.After that RWA shall collect monthly maintenance.	-----

The above inspection report of sub-committee was placed before the committee wherein it was observed that PP has shown positive intent for compliance of environmental norms by providing adequate plantation, STP and has developed other desired facilities. The committee found the compliances made by the PP satisfactory and acceptable and hence the case is recommended for grant of EC subject to the following special conditions. As the credible action has already been initiated, this will be further subject to the directions of the Hon^{ble} Court in the instant case.

1. Fresh water requirement for the project shall not exceed 449 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 951 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. PP will comply with all the commitments made in his affidavit dated 05/06/2015.

23. Case No. - 2339/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) SEIAA letter no. 2962 dtd. 8-1-2015 Rec. dt. 14/01/15 Environment Clearance for approval of proposed Group Housing Project "Fortune Soumya Heritage" at Village-Bhairipur, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 43981.27 Sq.m., Total Built-upArea- 33654.2 Sq.m. Building Construction. Env. Consultant:DAS India, Lucknow (UP)

This is a case of violation where credible action has been initiated. Proponent submitted that approx 60% construction was complete prior to submission of application for grant of EC. The construction was ceased before filing the application for environmental clearance. The details of the project are as below:

Brief Description:

Items	Details
Total Plot area	43981.27 m ²
Area of land under 24 m wide road	233.67 m ²
Area of land under 18 m wide road	645.95 sqm
Net Plot Area	43101.65 m² Total Area under plottable development- 19,842.6 m ² (Phase I) Area under multiunit development- 23,259.05 m ² (Phase II)
Ground Coverage	For Plottable Development Net plottable area of land ó 11607.6 m ² For Multiunit Development

Items	Details
	Permissible Ground Coverage= 30% of 23259.6 m ² = 6977.88 m ² Proposed = 6198.6 m² (26.65%) For Informal Sector Ground Coverage = 242.45 m ²
FAR	For Plottable Development Permissible FAR = 1.25 For Multiunit Development Permissible FAR = 29,074.44 Additional FAR of area under 24 m wide road = 584.18 sqm Additional FAR of area under 18 m wide road = 3565.22 sqm Permissible FAR = 33,223.84 m² Proposed FAR = 33,223.2 m²
Total (Non- FAR area)	Stilt Area: 6312 m ² Other Services: 431 m ² Informal Sector = 969.8 m ² Total: 7712.8 m²
Built up area	33,654.2 m² (33,223.2 m ² FAR+ 431 m ² Services area)
Road and internal circulation space	16761.18 m ² (38.89%)
Landscape	8291.22 m ² (19.2%)
No. of Units	No. of Plots ó 128 No. of units in multi dwelling unit ó 642 Informal Sector ó 40
Maximum Height	Approx 18 m (S+6)
Parking facilities	Required Total Required Parking (as per MP Vikas Rules, 2011) 1 Vehicle space = 175 m ² of Builtup Area = 193 Vehicle space 10% parking for visitors = 20 Vehicle space Total Required Parking = 213 Vehicle Space Parking Provided Four wheeler (90% of net Stilt Area) @ 30 m ² per Vehicle Space = 5680/30 = 189 ECS Two wheeler (10% of net Stilt Area) @ 10 m ² per 632/10 = 63 Vehicle Space Total Provided: 252 Vehicle space
Power requirement & source	2258 kVA Source : Madhya Pradesh Kshetra Vidyut Vitran Company Limited
Power Backup	1 DG sets of 125 kVA
Water Requirement and Source	Total water requirement: 413 KLD (Fresh water: 282 KLD, Recycled water: 131 KLD) Source: Ground water till municipal supply is available
Estimated Population	Residential: 4050

Items	Details
(fixed + floating)	Visitors: 400 Staffs: 100

Project Facilities:

- Entrance gate with smooth bell mouth entry/ exit & security.
- Visitors Parking
- 2 BHK and 3 BHK Apartments
- Plotted Development
- EWS/ LIG
- Children's play ground
- Sound infrastructures
- Disabled Friendly design

Environmental Management Plan

- Provision of Dual Plumbing.
- Stacks of adequate height will be provided (as per MoEF norms)
- Stack emissions from DG set to be monitored.
- Exhaust from vehicles to be minimized by use of fuel efficient and well maintained vehicles having PUC certificate.
- Green belt to be provided with dust and noise absorbing species.
- Dust suppression through water sprinkling.
- Waste water will be treated in STP for recycling.
- Rain water collection in pits along the low lying areas of slope.
- Recycling of tertiary treated water to reduce dependency on ground water.
- Ensure drainage system and specific design measures are working effectively.
- Vehicles transporting loose construction material should be covered.
- Vehicle trips to be minimized to the extent possible.
- Tire washing at entry and exit points to prevent transportation of soil and dust, to and fro from the site.
- Maximum utilization of natural light. Minimum glazing factor in regularly occupied spaces.

The case was discussed in the 182nd SEAC meeting dated 28/03/2015 wherein after deliberations, committee decided to visit the project site along with 05 other similar projects before making final recommendations.

As per decision of SEAC in its 182nd meeting dated: 28th March 2015 above 06 cases of building construction were inspected by a sub-committee of SEAC comprising of Dr. Mohini Saxena Member SEAC and Shri A.P. Srivastava Member SEAC during 15th and 16th April, 2015 wherein certain details were sought from the PP and if the desired details are submitted by PP within reasonable time of 02 weeks (PP agreed for one week) the cases may be examined and PP's commitment may be taken with time schedule in the form of affidavit. Else the case may be recommended for rejection.

The PP has submitted the response to above quarries vides letter dated 03/06/2015 and 05/06/2015 which was again examined by the sub-committee which inspected the above sites in continuation to the earlier site and recommends that ÷Being defaulter cases, it is clear that PP ignored the provisions of Environment Protection in these projects not only at planning stage but also at the construction stage. These six projects are not meeting most of the norms set for Environment Protection. Moreover, it is extremely difficult to implement environment Protection measures at this advance stage of completion of these projects.

In view of the above, these six cases may not be recommended for grant of EC MPSEIAA may be recommended to issue directions to stop all construction & development activities with immediate effect. An advertisement stating the decision in these cases may be given in local News Papers in the larger public interest.

The above site inspection report of the sub-committee, response from the PP to the quarries and subsequent comments and recommendations made by the sub-committee were placed before the committee in the 229th meeting of SEAC dated 01/10/2015 wherein after discussions & deliberations committee, while agreeing with the recommendations of the sub-committee, decided that in the view of the recommendations made by the sub-committee these above six cases (2335/15, 2336/15, 2337/15, 2338/15, 2339/15 & 2340/15) cannot be recommended for grant of Environmental clearance at this stage.

All the above six cases of building construction including the present case were sent back by SEIAA vides letter no. 7510 dated 09/11/2015 to consider the cases individually and give recommendations separately.

The above letter along with the case files were placed before the committee in the 255th SEAC meeting dated 02/01/2016 wherein committee after deliberations decided that a site inspection of all the above cases be carried out to verify the present status of all the cases and make recommendations for each case separately and as per decision of SEAC in its 255th meeting dated 02/01/2016.

- As decided, these cases of building construction were inspected by a sub-committee of SEAC comprising of Shri. K. P. Nyati, Dr. Mohini Saxena and Shri Manohar K. Joshi, Member SEAC on 17/01/2016.
- As all the projects belong to same group, PP made a power point presentation of all the six projects on the activities carried out by them for implementation of the recommendations made by the previous committee and the project wise observations of the committee are as follows:

Sl No .	Queries raised in site visit report of April,2015	Response from the project proponent now for proposed Group Housing Project "Fortune Soumya Heritage"	Compliance status as on inspection date 17/01/2016																				
1.	<p>All the 6 projects are in advance stage of completion of construction. Possession of a good number of dwelling units has been given and many of them have been occupied. Many more are ready possession. All though number of dwelling units in each case were verbally informed by the project proponents, they have requested to provide exist detail of occupancy/handed over possession and completion of dwelling units ready to hand over possession. Quantum of left out were in each other projects may be also be submitted.</p>	<p>Details of total no of proposed units, units under possession and units ready for possession in the proposed project are mentioned in the table below:</p> <table border="1" data-bbox="472 426 1045 762"> <thead> <tr> <th>No of Units</th> <th>Proposed units</th> <th>Possession given</th> <th>Under construction</th> <th>Units completed</th> </tr> </thead> <tbody> <tr> <td>Flats</td> <td>642</td> <td>78</td> <td>200</td> <td>306</td> </tr> <tr> <td>Duplexes/ Plots</td> <td>132</td> <td>55</td> <td>24</td> <td>53</td> </tr> <tr> <td>LIG/ EWS</td> <td>40</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Approximately 70% of civil work is completed, resolution is already provided by the pp along with application. • Occupancy: Flats: 25 Duplexes: 20 	No of Units	Proposed units	Possession given	Under construction	Units completed	Flats	642	78	200	306	Duplexes/ Plots	132	55	24	53	LIG/ EWS	40	---	---	---	<p>It was informed by the PP during the site visit that the total land area of the project is 43,981.27 Sq.m. and the proposed built up area of the project is 33,654.5 Sq.m. Some amount of construction work has already undertaken, PP has submitted a resolution along with the application for the same.</p> <p>The Project consists of group housing & duplex colony with all the basic amenities. Some group housing blocks and duplexes have already been constructed & about 133 possessions have been given.</p> <p>During site inspection no construction activity has been observed.</p> <p>As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance and the same could not be observed at the time of inspection.</p>
No of Units	Proposed units	Possession given	Under construction	Units completed																			
Flats	642	78	200	306																			
Duplexes/ Plots	132	55	24	53																			
LIG/ EWS	40	---	---	---																			
2.	<p>PP stated that all the project were as per master plan 2021 and land use shown in master plan 2021 as residential hence will not required any diversion of land use from agriculture to residential. As master plan 2021 is not yet</p>	<p>Land use of the proposed project is residential as per the master plan 2005. Land use certificate based on Master plan 2005 and land diversion certificates are attached as Annexure-I & II.</p>	<p>As per the details provided by PP during site inspection, the project is within the boundaries of Bhopal Master Plan 2005 of Bhopal Development Authority. The landuse of the project land is already residential.</p>																				

	<p>approve/published and applicable, the entire project required diversion of land use even if covered under master plan 2005. Project Proponent informed that they have obtained land use diversion in many and agreed to submit a copy of such approvals in respect of all the 6 projects.</p>		
<p>3.</p>	<p>No significant plantation has been done in any of the six projects. Except for Tulip Green (Case No.2338) on Kolar road all other five projects around Hoshangabad Road have literally no space for plantation. Even as per T &CP approval and less than 10% of total allocated land to be used for plantation. Even T & CP requirement is not complied in any of the five projects. However, project proponent insisted that they will provide plantation as per requirement of EC and have agreed to provide layout plan in each project including Tulip Green showing location of plantation, number of trees & their species on their site</p>	<p>Project layout plan is already approved from T&CP. Wherein we are required to provide 10 % open area. However we are providing 16% (6896 sqm) of plot area as open area for landscaping & plantation. The area includes green area provided inside the duplexes. The details are available in the plans. Road side plantation, Plantation in the open areas and along the periphery of the project will be provided by creating suitable site conditions. About 250 trees are proposed to be planted on the site and survival shall be ensured. All this can be verified during our compliances. STP location, MSW storage site is already marked on layout plan.</p>	<p>Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP, a sum total of 1351 trees has already been planted/proposed on site. PP ensured to provide a total dedicated land area of 6,896 m² (16% of the project land) for the purpose of landscaping and peripheral plantation on site. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.</p>

	plan & will submit it to SEAC		
4.	<p>Except the Fortune Signature (Case No. 2337), all other project have only one entry & exit gate. Project proponent has been asked to provide a minimum of two gates necessary for fire & other emergency situation. They have been asked to provide circular roads & adequate width of other roads also for movement of fire tenders & its approach to end. Conflict free movements, aspect of movement during any emergency have not been taken into consideration while providing internal traffic circulation system of roads. They have been asked to obtain approval of fire fighter Deptt. For entire projects</p>	<p>The project is already having three numbers of entry exits, one from 24 m wide master plan road in the south-west of project and other two from 12 m wide coordination roads situated west and north-east, respectively. The project has adequate networks of roads duly compliant with fire safety norms and fire NOC will be taken from fire department at the earliest. Internal circulation roads network is of, 9 m, 7.5 m and 6 m of width, which will provide conflict free movement for fire tenders during emergency. The road widths are in conformance with the T&CP rules.</p>	<p>3 numbers of Entry/exit to the project site is through 24 m wide master plan road and 12 m wide coordination road. Main entry exit is 9 m wide and all the other arterial roads are 6 m, 7.5 m and 9 m wide. Roads have already been constructed. Fire NOC for the project has already been obtained by the PP from the Fire department.</p>
5.	<p>STP - In all the projects except Tulip green, STP have been provided under ground. These STPs are based on FAB technology but found of lower capacity. Other issued related with STP are as follows</p> <p>(d) There is no proper access</p>	<p>Currently, only 20 duplexes and 16 flats are occupied and the total project population is about 180 persons. Total sewage generation from the project is about 13 KLD. As the amount of sewage generation is very low to operate the STP, presently the STP is being used as sewage storage tank only. Storage tanks are being regularly cleaned by BMC sewage tankers. Presently, Fresh water is being utilized for flushing and horticulture, till the STP becomes functional. STP treated water will be recycled using dual plumbing for flushing and irrigation purposes. Dual plumbing will also be provided in rest, yet to</p>	<p>The water supply for the project is at 135 lpcd. On site STP of 525 KLD was already constructed and was found operational during the site visit. Machine / pump room is constructed above the ground level. Wooden chambers are provided around the pumps/machines to reduce the noise level. Sludge pump along with filter press is installed at site for removal of excess sludge. Stand by ladders along with personal</p>

<p>provided for under ground STP and there for no STP could be inspected. None of the STP was working to the satisfaction as adjudged from inflow, laid down sewage collection system its operation and effluent quality. PP has agreed to provide safe access to underground STP and design details and operational to manual to SEAC to assess its adequacy for targeted standards.</p> <p>(e) PP is to provide water supply @ 135 LPCD as per standards set by urban development. It will enhance sewage generation. PP has agreed to submit new water balance in also agreed to enhance the capacity of STP so as to treat additional sewage generated.</p> <p>(f) No dual plumbing has been provided by the project proponent. At this advance stage of completion of project, it is not practically possible to provide dual plumbing in any of the 6 projects. The aspect of treated</p>	<p>construct duplexes.</p> <p>In the project Machine room for STP is located below ground level and is easily accessible through standby ladders. For maintenance of underground tanks standby ladders are provided. All necessary protective gears have been provided on site. Color coded pipes will be provided for dual plumbing system.</p> <p>The surplus treated water will only be discharged into natural drains after tertiary Treatment and ensuring that it meets required IS : 2490(1974) standards.</p> <p>The pp commits to a properly functional STP, ensuring recycling of water using dual plumbing in all flats and use of recycled water for other common activities such as irrigation & road washing.</p> <p>The pp is ensuring that wherever the STP placements is affected by road crossing, the sewer lines underneath the road will be protected with Box type culverts.</p>	<p>protective equipments are provided to ease the excess to underground tanks for the occasional maintenance work.</p> <p>Color coded recycled water line is provided in the multistoried buildings (dual plumbing) and in the green areas for flushing and irrigation uses. Recycled water lines are marked with sinages. PP also ensured that dual plumbing lines will also be provided in yet to be constructed duplexes.</p> <p>It was told by PP during site visit that at the present occupancy, there is no generation of surplus treated water on site till date. All the treated water is being consumed in irrigation and flushing. In future if there will be any surplus treated water that will be discharged in Municipal Drains/ Nallah after tertiary treatment. Necessary permission for the discharge of treated sewage has already been obtained for the Nagar Nigam Bhopal.</p>
---	--	---

	water recycling, reuse and water conservation has been overlooked.		
6.	Management of MSW (post construction) ó No infrastructure MSW collection has been provided. No MSW storage is provided for two day generation capacity. Barring Tulip Green no project has adequate land left for providing such storage. If there is any, the PP has been required to submit the details of MSW storage space with its location marked on site plan.	<p>After full occupancy total MSW generation is estimated to 2.1 T/day. The provision of 48 hours garbage storage for a volume of 10 m³ is proposed on site using covered containers. Location and accessibility is already marked on layout plans.</p> <p>Twin bin collection system with color-coded bins will be provided for source segregation of waste material. Door to door collection system will be provided using service lifts. Aesthetics near the common collection center will maintained and the total storage time will not be more than 48 hours</p> <p>For safe disposal of MSW tie up has been made with BMC.</p>	Dedicated waste collection site is present inside the project premises. 2 different colored containers are provided for the source segregation of the municipal solid waste material. PP informed during the site visit that Municipal Corporation Bhopal ensures the timely disposal of waste material on the paid basis.
7.	Only roof water harvesting is provided.	As per CGWB guidelines adequate no. of RHW pits will be provided for roof water harvesting and water from paved area will be managed through storm water drain.	Rain water harvesting structures are present at site. Total 5 numbers of RWH pits have been constructed. Collection and transportation structures required for roof top rain water is present. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
8.	No solar geysers/hot water system and no solar street light have been installed, to minimize power consumption and promote use of renewal energy source. PP has been asked to provided details if proposed/planned.	10% of solar lighting will be provided for street lighting and 20% solar lighting will be ensured in common areas.	Approx. 10 nos. of solar street lights are already installed at site. For lightening in the common/parking areas a solar panel of 1.25 KW is already installed on the roof. LEDs/ CFLs are provided to reduce the electricity consumption.

9.	Most of the land/area is covered with concrete/paved surface. There is not must possibility to use treated water for plantation/horticulture.	Based on discussion during visit, plantation and landscape areas have been reworked which is approximately 15% of net plot area. Recycled water will be used for irrigation purposes, which is approximately 34 KLD to cater 6,896sqm of Green area. At present no treated water is being utilized for irrigation or flushing. After occupancy treated water will be used for flushing (78 KLD) and road washing (10 KLD). Surplus water available if any will be discharged into natural drains after tertiary treatment.	Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP, a sum total of 1351 trees has already been planted/proposed on site. PP ensured to provide a total dedicated land area of 6,896 m ² (16% of the project land) for the purpose of landscaping and peripheral plantation on site. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.
10.	Parking provided appeared in adequate. PP has been required to provide basic of parking spaces and resubmit the parking plan including covered, basement and open parking area not clearly on it.	As per MoEF norms regulation parking space is required for 336 vehicles (1 ECS/100 sqmbuiltup area). About 350 parking spaces are provided in stilt area and open areas. Additional visitors parking will also be provided in open area. Individual parking facility will be provided for duplexes.	Car/ bike parking space for the residents is provided in the stilt area. Dedicated car parking spaces are provided marked with flat nos. as per PP about 350 car parking spaces are provided in stilt/ open area. Addition car parking is provided for visitors. Individual parking space is present in duplexes.
11.	Details of available corpus fund and its financial management for O & M of STP, MSW management and other aspect of CMP may be submitted for consideration of SEAC.	The pp in collaboration with owners has been created a corpus fund. One time fixed amount of Rs. 10,000 is being charged to the flat owners and Rs. 15,000 to the duplex owners at the time of possession. After complete occupancy in 642 flats and 128 duplexes corpus fund amount will be Rs. 83,40,000 which will be handed over to RWA. Corpus fund will be maintained by project proponent till RWA is not created. Fixed monthly maintenance charge of about Rs. 1200- 1500/months from every resident for common services and maintenance will be done by the builders till Dec-2016.After that RWA shall collect monthly maintenance.	-----

The above inspection report of sub-committee was placed before the committee wherein it was observed that PP has shown positive intent for compliance of environmental norms by providing adequate plantation, STP and has developed other desired facilities. The committee found the compliances made by the PP satisfactory and acceptable and hence the case is recommended for grant of EC subject to the following special conditions. As the credible action has already been initiated, this will be further subject to the directions of the Honøble Court in the instant case.

1. Fresh water requirement for the project shall not exceed 366.5 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 1351 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. PP will comply with all the commitments made in his affidavit dated 05/06/2015.

24. **Case No. - 2335/2015 Shri Anil Khanna, General Manager, M/s Fortune Builders, E-7/841, Arera Colony, Bhopal-462016 (MP) 2942 dtd. 6-1-2015 Environment Clearance for approval of proposed Group Housing Project "Fortune Divine City" at Village-Misrod, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 23633.66 Sq.m., Total Built-upArea- 29542 Sq.m. Building Construction. Env. Consultant: DAS India, Lucknow (UP).**

This is a building construction project comprising development of a township in a plot area of 23633.66 m² and total built-up area proposed is 29542 m². It was reported by the PP that this is

a case of violation where credible action has been initiated. It was submitted that approx. 95% construction is complete prior to submission of application for grant of EC. The construction has been ceased presently. The application and the evidence pertaining to legal action against the PP have been forwarded by the SEIAA for appraisal of the case on merits of the project. PP and his consultant presented the salient features of the project along with the environmental aspects, the impacts from the project and the mitigation adopted / proposed. The presentation and the submission made by the PP reveals following:

Brief Description:

Items	Details
Type of Building	Residential
Total Plot Area	23633.66 m ²
Total Ground Coverage	Permissible Ground Coverage= 30% of 23633.66 m ² = 7090.098 m ² Proposed ground coverage Residential= 5216.82m ² Convenient shops= 554 m ² Total proposed= 5770.82 m² (24.42%)
FAR	Permissible FAR = 29542.07 m ² (1.25) Proposed FAR = 29542.07 m ²
Total (Non- FAR area)	Stilt Area: 5188.58 m ²
Built up area	29542.07 m ²
Open Area	Open Parking: 3076 m ² Open for services: 231 m ² Road and internal circulation space- 10,005.84 m ² Total open area: 13,312.84 m²
Landscape	3545 m ² (15%)
No. of Trees	200 Trees
Number of floors & basements	(S+6) Floors, Basement: 1 no.
Parking facilities	Required 1. As per MoEF regulations: 295 ECS (@100 m ² of FAR/ ECS) (29542/100 = 295) 2. As per State regulations:

	<p>169 Vehicle Space (@ 175 m² builtup/ ECS) 17 Vehicle Space (10% visitors parking) Total : 186 Total Parking Required - 295</p> <p>Parking Provided Four wheeler (90% of net Stilt Area) @ 30 m² per 4669/30 = 156 ECS</p> <p>Two wheeler (10% of net Stilt Area) @ 10 m² per 518/10 = 51 Vehicle Space</p> <p>Four wheeler (90% of Open Area) @ 30 m² per Vehicle Space = 111 ECS</p> <p>Two wheeler (10% of Open Area) @ 10 m² per two wheeler = 31 Vehicle Space</p> <p>Total Provided: 4 wheeler: 267 ECS 2 wheeler: 82 Vehicle Space</p>
Power requirement & source	2250 kVA Source : Madhya Pradesh Kshetra Vidyut Vitran Company Limited
Power Backup	1 DG sets of 82.5 kVA
Water Requirement and Source	Total water requirement: 265 KLD (Fresh water: 170 KLD, Recycled water: 95 KLD) Source: Municipal water
Estimated Population (fixed + floating)	Residential: 2530 Visitors: 200 Staffs: 125
No. of Blocks	The proposed project has 10 block types (A-J)
Number of floors	(S+5, G+3, G+2) Floors
Maximum Height	Approx 20 m
Dwelling units	506

Project Facilities:

- Entrance gate with smooth bell mouth entry/ exit & security.
- Visitors Parking

- 2 BHK and 3 BHK Apartments
- EWS/ LIG
- Children's play ground
- Sound infrastructures
- Disabled Friendly design

Environmental Management Plan

- Provision of Dual Plumbing.
- Stacks of adequate height will be provided (as per MoEF norms)
- Stack emissions from DG set to be monitored.
- Exhaust from vehicles to be minimized by use of fuel efficient and well maintained vehicles having PUC certificate.
- Green belt to be provided with dust and noise absorbing species.
- Dust suppression through water sprinkling.
- Waste water will be treated in STP for recycling.
- Rain water collection in pits along the low lying areas of slope.
- Recycling of tertiary treated water to reduce dependency on ground water.
- Ensure drainage system and specific design measures are working effectively.
- Vehicles transporting loose construction material should be covered.
- Vehicle trips to be minimized to the extent possible.
- Tire washing at entry and exit points to prevent transportation of soil and dust, to and fro from the site.
- Maximum utilization of natural light.
- Minimum glazing factor in regularly occupied spaces

The case was discussed in the 182nd SEAC meeting dated 28/03/2015 wherein after deliberations, committee decided to visit the project site along with 05 other similar projects before making final recommendations.

As per decision of SEAC in its 182nd meeting dated: 28th March 2015 above 06 cases of building construction were inspected by a sub-committee of SEAC comprising of Dr. Mohini Saxena Member SEAC and Shri A.P. Srivastava Member SEAC during 15th and 16th April, 2015 wherein certain details were sought from the PP and if the desired details are submitted by PP within reasonable time of 02 weeks (PP agreed for one week) the cases may be examined and PP's commitment may be taken with time schedule in the form of affidavit. Else the case may be recommended for rejection.

The PP has submitted the response to above quarries vide letter dated 03/06/2015 and 05/06/2015 which was again examined by the sub-committee which inspected the above sites in continuation to the earlier site and recommends that "Being defaulter cases, it is clear that PP ignored the provisions of Environment Protection in these projects not only at

planning stage but also at the construction stage. These six projects are not meeting most of the norms set for Environment Protection. Moreover, it is extremely difficult to implement environment Protection measures at this advance stage of completion of these projects.

In view of the above, these six cases may not be recommended for grant of EC MPSEIAA may be recommended to issue directions to stop all construction & development activities with immediate effect. An advertisement stating the decision in these cases may be given in local News Papers in the larger public interest.

The above site inspection report of the sub-committee, response from the PP to the quarries and subsequent comments and recommendations made by the sub-committee were placed before the committee in the 229th meeting of SEAC dated 01/10/2015 wherein after discussions & deliberations committee, while agreeing with the recommendations of the sub-committee, decided that in the view of the recommendations made by the sub-committee these above six cases (2335/15, 2336/15, 2337/15, 2338/15, 2339/15 & 2340/15) cannot be recommended for grant of Environmental clearance at this stage.

All the above six cases of building construction including the present case were sent back by SEIAA vides letter no. 7510 dated 09/11/2015 to consider the cases individually and give recommendations separately.

The above letter along with the case files were placed before the committee in the 255th SEAC meeting dated 02/01/2016 wherein committee after deliberations decided that a site inspection of all the above cases be carried out to verify the present status of all the cases and make recommendations for each case separately and as per decision of SEAC in its 255th meeting dated 02/01/2016.

- As decided, these cases of building construction were inspected by a sub-committee of SEAC comprising of Shri. K. P. Nyati, Dr. Mohini Saxena and Shri Manohar K. Joshi, Member SEAC on 17/01/2016.
- As all the projects belong to same group, PP made a power point presentation of all the six projects on the activities carried out by them for implementation of the recommendations made by the previous committee and the project wise observations of the committee are as follows:

Sl No .	Queries raised in site visit report of April,2015	Response from the project proponent now for proposed Group Housing Project "Fortune Divine City	Compliance status as on inspection date 17/01/2016										
1.	<p>All the 6 projects are in advance stage of completion of construction. Possession of a good number of dwelling units has been given and many of them have been occupied. Many more are ready possession. All though number of dwelling units in each case were verbally informed by the project proponents, they have requested to provide exist detail of occupancy/handed over possession and completion of dwelling units ready to hand over possession. Quantum of left out were in each other projects may be also be submitted.</p>	<p>Details of total no of proposed units, units under possession and units ready for possession in the proposed project are mentioned in the table below:</p> <table border="1" data-bbox="488 474 1117 625"> <thead> <tr> <th>No of Units</th> <th>Proposed units</th> <th>Possession given</th> <th>Under construction</th> <th>Units completed</th> </tr> </thead> <tbody> <tr> <td>Flats</td> <td>506</td> <td>409</td> <td>10</td> <td>496</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Approximately 95% of civil work is completed, resolution is already provided by the pp along with application. • Presently about 270Nos of flats are occupied 	No of Units	Proposed units	Possession given	Under construction	Units completed	Flats	506	409	10	496	<p>It was confirmed with the PP during the site visit that the total land area of the project is 23,633.66 Sq.m. and the proposed built up area of the project is 29,542.07 Sq.m. which is same as in application filed for environment clearance. Some amount of construction work has already undertaken, PP has submitted a resolution along with the application for the same.</p> <p>The Project consists of group housing with all the basic amenities. Some group housing blocks have already been constructed & about 409 possessions have already been given.</p> <p>During site inspection no construction activity has been observed. As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance.</p>
No of Units	Proposed units	Possession given	Under construction	Units completed									
Flats	506	409	10	496									
2.	<p>PP stated that all the project were as per master plan 2021 and land use shown in master plan 2021as residential hence will not required any diversion of land use from agriculture to residential. As master plan 2021 is not yet approve/published and applicable, the entire project required diversion</p>	<p>Land use of the proposed project is residential as per the master plan 2005. Land use certificate based on Master plan 2005 and land diversion certificates are attached as Annexure-I & II.</p>	<p>As per the details provided by PP during site inspection, the project is within the boundaries of Bhopal Master Plan 2005 of Bhopal Development Authority. The land use of the project land is residential and documents related to land diversion and ownership of land have already been submitted along with</p>										

	of land use even if covered under master plan 2005. Project Proponent informed that they have obtained land use diversion in many and agreed to submit a copy of such approvals in respect of all the 6 projects.		application.
3.	No significant plantation has been done in any of the six projects. Except for Tulip Green (Case No.2338) on Kolar road all other five projects around Hoshangabad Road have literally no space for plantation. Even as per T &CP approval and less than 10% of total allocated land to be used for plantation. Even T & CP requirement is not complied in any of the five projects. However, project proponent insisted that they will provide plantation as per requirement of EC and have agreed to provide layout plan in each project including Tulip Green showing location of plantation, number of trees & their species on their site plan & will submit it to SEAC	Project layout plan is already approved from T&CP. Wherein we are required to provide 10 % open area. However we are providing 15% (3545 sqm) of plot area as open area for landscaping & plantation. The details are available in the plans. Road side plantation, Plantation in the open areas and along the periphery of the project will be provided by creating suitable site conditions.About 200 trees are proposed to be planted on the siteand survival shall be ensured. All this can be verified during our compliances. STP location, MSW storage site is already marked on layout plan.	Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of approx 820 medium and tall height trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is approximately 15 % of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.
4.	Except the Fortune Signature (Case No. 2337), all other project have only one entry & exit gate. Project proponent has been asked to provide a minimum of two gates necessary for fire & other emergency situation. They have been asked to	The project is already having two numbers of entry exits; the project has adequate networks of roads duly compliant with fire safety norms. The main road width in the project has been kept at 12 m and is linked with 18 m master plan road and coordination road at entry/exits points.Other internal circulation roads are of minimum 6 m of width, which will provide conflict free movement for fire tenders during emergency. The road widths are in conformance with the T&CP rules.	The project has 2 numbers of Entry/exit through 12 m wide coordination road. 24 m wide master plan road is also proposed through the project which will increase the connectivity of the project. Main entry exit is 12 m wide and all the other arterial roads are 6 m, 10 m and 12 m wide

	<p>provide circular roads & adequate width of other roads also for movement of fire tenders & its approach to end. Conflict free movements, aspect of movement during any emergency have not been taken into consideration while providing internal traffic circulation system of roads. They have been asked to obtain approval of fire fighter Deptt. For entire projects.</p>		<p>for conflict free Movement of Traffic and fire tenders in case of emergency. Roads have already been constructed.</p>
<p>5.</p>	<p>STP - In all the projects except Tulip green, STP have been provided under ground. These STPs are based on FAB technology but found of lower capacity. Other issued related with STP are as follows</p> <p>(g) There is no proper access provided for under ground STP and there for no STP could be inspected. None of the STP was working to the satisfaction as adjudged from inflow, laid down sewage collection system its operation and effluent quality. PP has agreed to provide safe access to underground STP and design details and operational to manual to SEAC to assess its adequacy for targeted standards.</p> <p>(h) PP is to provide water supply @ 135 LPCD as per standards set by urban development. It will</p>	<p>Currently, only 270 flats are occupied and the total project population is about 1350. Total sewage generation from the project is about 104 KLD which is being treated in the STP and about 56 KLD of treated water is recycled for flushing in flats, irrigation and road washing. Rest 48 KLD tertiary treated water is being discharged into the nearest natural drain through dedicated covered drainage lines.</p> <p>In the project Machine room for STP is located above ground level and is easily accessible. For maintenance of underground tanks standby ladders are provided. All necessary protective gears have been provided on site.</p> <p>The surplus treated water will only be discharged into natural drains after tertiary Treatment and ensuring that it meets required IS : 2490(1974) standards.</p> <p>The STP has been rectified and the pp commits to a properly functional STP, ensuring recycling of water using dual plumbing in all flats and use of recycled water for other common activities such as irrigation & road washing.</p> <p>The pp is ensuring that wherever the STP placements is affected by road crossing, the sewer lines underneath the road will be protected with Box type culverts.</p>	<p>As per the details provided by PP project has a provision for 135 lpcd water supply. The source of water supply is municipal supply lines. On site STP of 350 KLD has already been constructed and was found operational during the site visit. Machine / pump room are constructed on the ground level and are easily accessible except holding tank. STP tanks are below the ground level. Stand by ladders along with personal protective equipments are provided to ease the access to underground tanks for the occasional maintenance work. Sludge pump along with filter press is installed at site for removal of excess sludge. A box type culvert is already prepared between the both phases of project, divided by proposed master plan road.</p> <p>During inspection it was observed that the existing STP does not have the sufficient holding capacity for effluent</p>

	<p>enhance sewage generation. PP has agreed to submit new water balance in also agreed to enhance the capacity of STP so as to treat additional sewage generated.</p> <p>(i) No dual plumbing has been provided by the project proponent. At this advance stage of completion of project, it is not practically possible to provide dual plumbing in any of the 6 projects. The aspect of treated water recycling, reuse and water conservation has been overlooked.</p>		<p>and thus it was suggested by the committee that an additional holding tank be provided so that 24 hour holding capacity can be created with ladder facility for cleanup operations (for both the tanks i.e. existing and proposed).</p> <p>Color coded recycled water lines are provided in the buildings and in the green areas for flushing and irrigation uses. Color coded treated water storage tanks are installed on the top of each block to facilitate dual plumbing. Recycled water lines are marked with sinages.</p> <p>It was told by PP during site visit that at the present occupancy status of the project no surplus treated water is produced. All the treated water is being consumed in irrigation and flushing. In future if there will be any surplus treated water; it will be discharged in Municipal Drains/ Nallah after tertiary treatment. Necessary permission for the discharge of treated sewage has already been obtained from the Nagar Nigam Bhopal.</p>
6.	<p>Management of MSW (post construction) ó No infrastructure MSW collection has been provided. No MSW storage is provided for two day generation capacity. Barring Tulip Green no project has</p>	<p>After full occupancy total MSW generation is estimated to 1.4 T/day. The provision of 48 hours garbage storage for a volume of 6 m³ is proposed on site using covered containers. Location and accessibility is already marked on layout plans.</p> <p>Twin bin collection system with color-coded bins will be provided for source segregation of waste material. Door to door collection system</p>	<p>PP has earmarked an area for municipal solid waste collection inside the project premises. 2 different colored containers are provided for the source segregation of the municipal solid waste material. Color coded plastic bins have</p>

	adequate land left for providing such storage. If there is any, the PP has been required to submit the details of MSW storage space with its location marked on site plan.	will be provided using service lifts. Aesthetics near the common collection center will be maintained and the total storage time will not be more than 48 hours For safe disposal of MSW tie up has been made with BMC.	been installed on each floor for collection of waste from the occupants. PP informed during the site visit that Municipal Corporation Bhopal ensures the timely disposal of waste material on the paid basis. NOC for garbage disposal has already been procured.
7.	Only roof water harvesting is provided.	As per CGWB guidelines adequate no. of RWH pits will be provided for roof water harvesting and water from paved area will be managed through storm water drain.	Total 6 numbers of RWH pits are present on site for the rain water harvesting. Collection and transportation structures required for roof top rain water is present. Project also contains paver blocks in the stilt area and in open parking spaces to facilitate percolation of rain water. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
8.	No solar geysers/hot water system and no solar street light have been installed, to minimize power consumption and promote use of renewal energy source. PP has been asked to provided details if proposed/planned.	10% of solar lighting will be provided for street lighting and 20% solar lighting will be ensured in common areas.	PP ensured to provide 10% of solar lighting for street lighting and 20% solar lighting in common areas. Approx. 10 nos. of solar street lights are already installed at site. LEDs/ CFLs are provided in common areas to reduce the electricity consumption.
9.	Most of the land/area is covered with concrete/paved surface. There is not must possibility to use treated water for plantation/horticulture.	Based on discussion during visit, plantation and landscape areas have been reworked which is approximately 15 % of net plot area. At present, Recycled water is being used for irrigation purposes, which is approximately 18 KLD to cater 3545sqm of Green area. Rest of the treated water will be used for flushing (28 KLD) and road washing (10 KLD). After full occupancy flushing water requirement will increase upto 57 KLD. Surplus water available if any will be discharged into natural drains after	Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of approx 820 medium and tall height trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is

		tertiary treatment.	approximately 15 % of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.
10.	Parking provided appeared in adequate. PP has been required to provide basic of parking spaces and resubmit the parking plan including covered, basement and open parking area not clearly on it.	As per MoEF norms regulation parking space is required for 295 vehicles (1 ECS/100 sqm built-up area). About 340 parking spaces are provided in stilt area and open areas. 10% Visitors parking will also be provided in open area. No basement area is proposed.	Car/ bike parking space for the residents is provided in the stilt/open area. Dedicated car parking spaces are provided marked with flat nos. as per PP about 340 car parking spaces are provided in stilt/ open area. Addition car parking is provided for visitors.
11.	Details of available corpus fund and its financial management for O & M of STP, MSW management and other aspect of CMP may be submitted for consideration of SEAC.	The pp in collaboration with owners has been created a corpus fund. One time fixed amount of 5,000 is being charged to the resident at the time of possession. After complete occupancy in 506 flats corpus fund amount will be Rs. 25, 30000, which will be handed over to RWA. Corpus fund will be maintained by project proponent till RWA is not created. A fixed monthly maintenance charge of about 1200Rs. /months is also being taken from every resident for common services.	-----

The above inspection report of sub-committee was placed before the committee wherein it was observed that PP has shown positive intent for compliance of environmental norms by providing adequate plantation, STP and has developed other desired facilities. The committee found the compliances made by the PP satisfactory and acceptable and hence the case is recommended for grant of EC subject to the following special conditions. As the credible action has already been initiated, this will be further subject to the directions of the Honøble Court in the instant case.

1. Fresh water requirement for the project shall not exceed 232.25 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 820 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. Power back-up for un-interrupted operations of STP shall be ensured.
 6. CFL/LED should be preferred over of tube lights.
 7. Fund should be exclusively earmarked for the implementation of EMP.
 8. MSW storage area should have 48 hours storage capacity.
 9. Dual plumbing should be provided.
 10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
 11. An additional holding tank be provided so that 24 hour holding capacity can be created with ladder facility for cleanup operations.
 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. PP will comply with all the commitments made in his affidavit dated 05/06/2015.
25. **Case No. - 2340/2015 Shri Anil Khanna, General Manager, M/s Fortune Builders, 157, Zone-1, M.P. Nagar, Bhopal-462011 (MP) SEIAA letter no. 2964 dtd. 8-1-2015, Rec. dt. 14/01/15 Environment Clearance for approval of proposed Group Housing Project "Fortune Kasturi" at Village-Jatkhedi, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 18285.73 Sq.m., Total Built-upArea- 33805.69 Sq.m. For-Building Construction. Env.Consultant:DAS India, Lucknow.**

This is a building construction project comprising development of a township in a plot area of 18285.73 m² and total built-up area proposed is 33805.69 m². It was reported by the PP that this is a case of violation where credible action has been initiated. It was submitted that approx.60% construction is complete prior to submission of application for grant of EC. The construction has been ceased presently. The application and the evidence pertaining to legal action against the PP have been forwarded by the SEIAA for appraisal of the case on merits of the project. PP and his consultant presented the salient features of the project along with the environmental aspects, the impacts from the project and the mitigation adopted / proposed. The presentation and the submission made by the PP reveals following:

Brief Description:

Items	Details
-------	---------

Type of Building	Residential
Total Plot Area	21,120 m ²
Area of land under 24 m wide road	2834.27 m ²
Net Plot Area	18285.73m ²
Total Ground Coverage	Permission Ground Coverage= 30% of 18285.73 m ² = 5485.72 m ² Proposed = 5449.47 m² (29.8%)
FAR	Permissible FAR (1.25) = 29942.84 m ² (Additional FAR of Area under 24 m wide road) Proposed FAR = 29942.84 m²
Total (Non- FAR area) (Basement and other services)	Basement: 480 m ² Stilt Area: 4564.72 m ² Other Services: 182.85 m ² LIG = 2994.28 m ² Informal Sector = 685.71 m ² Total: 8907.56 m ²
Built up area	33805.69 m² (29942.84 m ² FAR+ 3680m ² LIG/ Informal Sectors+ 182.85 m ² other services)
Road and internal circulation space	8251.34 m ² (45.12%)
Landscape	4585 m ²
Height of the Building	18 m + Stilt
Number of floors & basements	(S+6) Floors, Basement: 1 no.
Power Backup	1 DG sets of 150 kVA
Water Requirement and Source	Total water requirement: 226 KLD (Fresh water: 128 KLD, Recycled water: 98 KLD) Source: Ground water till the municipal supply is available
Sewage Treatment and Disposal	STP Capacity: 175 KLD Technology used: FAB
Total Solid Waste Generated	Approx. 1020 kg/day
Estimated Population (fixed + floating)	Residential including LIG: 1930 Visitors: 200 Staffs: 50
Parking facilities	Required Total parking required = 193 Vehicle Space (@ 175 sqm built-up) Visitorø Parking (10% of residential parking): 20 Vehicle space Total required: 212 Vehicle space Provided – 213 Vehicle Space Four wheeler (80% of total Stilt Area) @ 30 m ² per Vehicle Space= 122 Vehicle Space

	Two wheeler (20% of total Stilt Area) @ 10 m ² per two wheeler = 91 Vehicle Space
--	--

Project Facilities:

- “ Entrance gate with smooth bell mouth entry/ exit & security.
- “ Visitors Parking
- “ 2 BHK and 3 BHK Apartments
- “ Place for senior citizens
- “ Children’s play ground
- “ Sound infrastructures
- “ Disabled Friendly design
- “

Environmental Management Plan

- Provision of Dual Plumbing.
- Disabled- friendly design with ramps etc.
- DG sets are to be provided within acoustic enclosures with height of chimney as specified by MoEF and stack emissions from DG set to be monitored.
- Green belt to be provided with dust and noise absorbing species.
- Dust suppression through water sprinkling.
- Vehicles transporting loose construction material should be covered.
- Vehicle trips to be minimized to the extent possible.
- Implement good working practices (equipment selection and siting) to minimize noise and also reduce its impacts on human health (ear muffs, safe distances, and enclosures).
- Exhaust from vehicles to be minimized by use of fuel efficient and well maintained vehicles having PUC certificate.
- Waste water will be treated in STP for recycling.
- Rain water collection in pits along the low lying areas of slope.
- Recycling of tertiary treated water to reduce dependency on ground water.
- Maximum utilization of natural light.
- Ensure drainage system and specific design measures are working effectively.
- Tire washing at entry and exit points to prevent transportation of soil and dust, to and fro from the site.

The case was discussed in the 182nd SEAC meeting dated 28/03/2015 wherein after deliberations, committee decided to visit the project site along with 05 other similar projects before making final recommendations.

As per decision of SEAC in its 182nd meeting dated: 28th March 2015 above 06 cases of building construction were inspected by a sub-committee of SEAC comprising of Dr. Mohini Saxena Member SEAC and Shri A.P. Srivastava Member SEAC during 15th and 16th April, 2015 wherein certain details were sought from the PP and if the desired details are submitted by PP within reasonable time of 02 weeks (PP agreed for one week) the cases may be

examined and PP's commitment may be taken with time schedule in the form of affidavit. Else the case may be recommended for rejection.

The PP has submitted the response to above quarries vide letter dated 03/06/2015 and 05/06/2015 which was again examined by the sub-committee which inspected the above sites in continuation to the earlier site and recommends that "Being defaulter cases, it is clear that PP ignored the provisions of Environment Protection in these projects not only at planning stage but also at the construction stage. These six projects are not meeting most of the norms set for Environment Protection. Moreover, it is extremely difficult to implement environment Protection measures at this advance stage of completion of these projects".

In view of the above, these six cases may not be recommended for grant of EC MPSEIAA may be recommended to issue directions to stop all construction & development activities with immediate effect. An advertisement stating the decision in these cases may be given in local News Papers in the larger public interest.

The above site inspection report of the sub-committee, response from the PP to the quarries and subsequent comments and recommendations made by the sub-committee were placed before the committee in the 229th meeting of SEAC dated 01/10/2015 wherein after discussions & deliberations committee, while agreeing with the recommendations of the sub-committee, decided that in the view of the recommendations made by the sub-committee these above six cases (2335/15, 2336/15, 2337/15, 2338/15, 2339/15 & 2340/15) cannot be recommended for grant of Environmental clearance at this stage.

All the above six cases of building construction including the present case were sent back by SEIAA vide letter no. 7510 dated 09/11/2015 to consider the cases individually and give recommendations separately.

The above letter along with the case files were placed before the committee in the 255th SEAC meeting dated 02/01/2016 wherein committee after deliberations decided that a site inspection of all the above cases be carried out to verify the present status of all the cases and make recommendations for each case separately and as per decision of SEAC in its 255th meeting dated 02/01/2016.

As decoded, these cases of building construction were inspected by a sub-committee of SEAC comprising of Shri. K. P. Nyati, Dr. Mohini Saxena and Shri Manohar K. Joshi, Member SEAC on 17/01/2016.

As all the projects belong to same group, PP made a power point presentation of all the six projects on the activities carried out by them for implementation of the recommendations made by the previous committee and the project wise observations of the committee are as follows:

Sl No.	Queries raised in site visit report of April,2015	Response from the project proponent now for proposed Group Housing Project "Fortune Kasturi"	Compliance status as on inspection date 17/01/2016															
1.	<p>All the 6 projects are in advance stage of completion of construction. Possession of a good number of dwelling units has been given and many of them have been occupied. Many more are ready possession. All though number of dwelling units in each case were verbally informed by the project proponents, they have requested to provide exist detail of occupancy/handed over possession and completion of dwelling units ready to hand over possession. Quantum of left out were in each other projects may be also be submitted.</p>	<p>Details of total no of proposed units, units under possession and units ready for possession in the proposed project are mentioned in the table below:</p> <table border="1" data-bbox="500 541 1070 768"> <thead> <tr> <th>No of Units</th> <th>Prop osed units</th> <th>Posses sion given</th> <th>Under constru ction</th> <th>Unit compl eted</th> </tr> </thead> <tbody> <tr> <td>Flats</td> <td>331</td> <td>2</td> <td>51</td> <td>280</td> </tr> <tr> <td>LIG/ EWS</td> <td>55</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Approximately 80% of civil work is completed, resolution is already provided by the pp along with application. • Presently about 2 Nos of flats are occupied 	No of Units	Prop osed units	Posses sion given	Under constru ction	Unit compl eted	Flats	331	2	51	280	LIG/ EWS	55	---	---	---	<p>It was informed by the PP during the site visit that the total land area of the project is 18,285.73 Sq.m. and the proposed built up area of the project is 33,805.69 Sq.m. which is same as in application filed for environment clearance. Some amount of construction work has already undertaken, PP has submitted a resolution along with the application for the same.</p> <p>During inspection some evidences of finishing of residential units in one block was observed as brickwork & plastering work was taking place and PP informed that this is been done due to the pressure of residents. However, they have submitted that no contravention of the Town & Country Planning condition has taken place.</p> <p>The Project consists of group housing with all the basic amenities. Some group housing blocks have already been constructed & 02 possessions have been given. During site inspection no construction activity was observed. As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance.</p>
No of Units	Prop osed units	Posses sion given	Under constru ction	Unit compl eted														
Flats	331	2	51	280														
LIG/ EWS	55	---	---	---														
2.	<p>PP stated that all the project were as per master plan 2021 and land use</p>	<p>Land use of the proposed project is residential as per the master plan 2005. Land use certificate based on Master plan</p>	<p>As per the details provided by PP during site inspection, the</p>															

	<p>shown in master plan 2021 as residential hence will not require any diversion of land use from agriculture to residential. As master plan 2021 is not yet approved/published and applicable, the entire project required diversion of land use even if covered under master plan 2005. Project Proponent informed that they have obtained land use diversion in many and agreed to submit a copy of such approvals in respect of all the 6 projects.</p>	<p>2005 and land diversion certificates are attached as Annexure-I & II.</p>	<p>project is within the boundaries of Bhopal Master Plan 2005 of Bhopal Development Authority. The land use of the project land is residential and documents related to land diversion and ownership of land have already been submitted along with application.</p>
3.	<p>No significant plantation has been done in any of the six projects. Except for Tulip Green (Case No.2338) on Kolar road all other five projects around Hoshangabad Road have literally no space for plantation. Even as per T & CP approval and less than 10% of total allocated land to be used for plantation. Even T & CP requirement is not complied in any of the five projects. However, project proponent insisted that they will provide plantation as per requirement of EC and have agreed to provide layout plan in each project including Tulip Green showing location of plantation, number of trees & their species on their site plan & will submit it to SEAC</p>	<p>Project layout plan is already approved from T&CP. Wherein we are required to provide 10 % open area. However we are providing 15% (2743 sqm) of plot area as open area for landscaping & plantation. Road side plantation, Plantation in the open areas and along the periphery of the project will be provided by creating suitable site conditions. About 150 trees are proposed to be planted on the site and survival shall be ensured. All this can be verified during our compliances.</p> <p>STP location, MSW storage site is already marked on layout plan.</p>	<p>Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of 647 medium and tall height trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is approximately 18 % of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.</p>
4.	<p>Except the Fortune Signature (Case No. 2337), all other project have only one entry & exit gate.</p>	<p>The project is already having three numbers of entry exits, of the project one from 24 m wide master plan road in the east of project and other two from 12 m wide roads</p>	<p>The project has 3 numbers of Entry/exits are proposed. 2 entries are from 12 m wide coordination roads. One entry is</p>

	<p>Project proponent has been asked to provide a minimum of two gates necessary for fire & other emergency situation. They have been asked to provide circular roads & adequate width of other roads also for movement of fire tenders & its approach to end. Conflict free movements, aspect of movement during any emergency have not been taken into consideration while providing internal traffic circulation system of roads. They have been asked to obtain approval of fire fighter Deptt. For entire projects</p>	<p>situated south and west, respectively. The project has adequate networks of roads duly compliant with fire safety norms. Internal circulation roads network is of 12 m, 9 m, 7.5 m and 6 m of width, which will provide conflict free movement for fire tenders during emergency. The road widths are in conformance with the T&CP rules.</p>	<p>from 24 m wide master plan road is also proposed which will increase the connectivity of the project. Main entry exit is 12 m wide and all the other arterial roads are 6 m, 7.5 m and 12 m wide for conflict free movement of Traffic and fire tenders in case of emergency. Roads have already been constructed. Fire NOC for the project has already been secured by the PP from the Fire department.</p>
<p>5.</p>	<p>STP - In all the projects except Tulip green, STP have been provided under ground. These STPs are based on FAB technology but found of lower capacity. Other issued related with STP are as follows</p> <p>(j) There is no proper access provided for under ground STP and there for no STP could be inspected. None of the STP was working to the satisfaction as adjudged from inflow, laid down sewage collection system its operation and effluent quality. PP has agreed to provide safe access to underground STP and design details and operational to manual to SEAC to assess its adequacy for targeted standards.</p>	<p>Currently, only 2 flats are occupied and the total project population is about 10 persons. Total sewage generation from the project is about 0.77 KLD. As the amount of sewage generation is very low to operate the STP, presently the STP is being used as sewage storage tank only. Storage tanks are being regularly cleaned by BMC sewage tankers. Presently, Fresh water is being utilized for flushing and horticulture, till the STP becomes functional. STP treated water will be recycled using dual plumbing for flushing and irrigation purposes. In the project Machine room for STP is located above ground level and is easily accessible. For maintenance of underground tanks standby ladders are provided. All necessary protective gears have been provided on site. Color coded pipes will be provided for dual plumbing system. The surplus treated water will only be discharged into natural drains after tertiary Treatment and ensuring that it meets required IS : 2490(1974) standards. The pp commits to a properly functional STP, ensuring recycling of water using dual plumbing in all flats and use of recycled water for other common activities such as irrigation & road washing.</p>	<p>As per the details provided by PP project has a provision for 135 lpcd water supply. The source of water supply is municipal supply lines.</p> <p>On site STP of 250 KLD has already been constructed and was found operational during the site visit. Machine / pump room are constructed on the ground level and are easily accessible.</p> <p>STP tanks are below the ground level. Stand by ladders along with personal protective equipments are provided to ease the access to underground tanks for the occasional maintenance work. Sludge pump along with filter press is installed at site for removal of excess sludge. A box type culvert is already prepared for road crossings & proposed master plan road.</p>

	<p>(k) PP is to provide water supply @ 135 LPCD as per standards set by urban development. It will enhance sewage generation. PP has agreed to submit new water balance in also agreed to enhance the capacity of STP so as to treat additional sewage generated.</p> <p>(l) No dual plumbing has been provided by the project proponent. At this advance stage of completion of project, it is not practically possible to provide dual plumbing in any of the 6 projects. The aspect of treated water recycling, reuse and water conservation has been overlooked.</p>	<p>The pp is ensuring that wherever the STP placements is affected by road crossing, the sewer lines underneath the road will be protected with Box type culverts.</p>	<p>Color coded recycled water lines are provided in the buildings and in the green areas for flushing and irrigation uses. Color coded treated water storage tanks are installed on the top of each block to facilitate dual plumbing. Recycled water lines are marked with sinages.</p> <p>It was told by PP during site visit that at the present occupancy status of the project no surplus treated water is produced. All the treated water is being consumed in irrigation and flushing. In future if there will be any surplus treated water; it will be discharged in Municipal Drains/ Nallah after tertiary treatment. Necessary permission for the discharge of treated sewage has already been obtained from the Nagar Nigam Bhopal.</p>
6.	<p>Management of MSW (post construction) No infrastructure MSW collection has been provided. No MSW storage is provided for two day generation capacity. Barring Tulip Green no project has adequate land left for providing such storage. If there is any, the PP has been required to submit the details of MSW storage space with its location marked on site plan.</p>	<p>After full occupancy total MSW generation is estimated to 2.2 T/day. The provision of 48 hours garbage storage for a volume of 5 m³ is proposed on site using covered containers. Location and accessibility is already marked on layout plans. Twin bin collection system with color-coded bins will be provided for source segregation of waste material. Door to door collection system will be provided using service lifts. Aesthetics near the common collection center will maintained and the total storage time will not be more than 48 hours</p> <p>For safe disposal of MSW tie up has been made with BMC.</p>	<p>PP has earmarked an area for municipal solid waste collection inside the project premises. 2 different colored containers are provided for the source segregation of the municipal solid waste material. Color coded plastic bins have been installed on each floor for collection of waste from the occupants. PP informed during the site visit that Municipal Corporation Bhopal ensures the timely disposal of waste material on the paid basis. NOC for garbage disposal has already been procured.</p>

7.	Only roof water harvesting is provided.	As per CGWB guidelines adequate no. of RHW pits will be provided for roof water harvesting and water from paved area will be managed through storm water drain.	Total 7 numbers of RWH pits are proposed on site for the rain water harvesting. 4 nos. of RWH pits have already been constructed on site. Collection and transportation structures required for roof top rain water is present. Project also contains paver blocks in the stilt area and in open parking spaces to facilitate percolation of rain water. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
8.	No solar geysers/hot water system and no solar street light have been installed, to minimize power consumption and promote use of renewal energy source. PP has been asked to provided details if proposed/planned.	10% of solar lighting will be provided for street lighting and 20% solar lighting will be ensured in common areas.	PP ensured to provide 10% of solar lighting for street lighting and 20% solar lighting in common areas. Around 7 nos. of solar street lights are already installed at site. For common area lightening 3.6 kVA solar panels are installed on roof top. LEDs/ CFLs are provided in common areas to reduce the electricity consumption.
9.	Most of the land/area is covered with concrete/paved surface. There is not must possibility to use treated water for plantation/horticulture.	Based on discussion during visit, plantation and landscape areas have been reworked which is approximately 15 % of net plot area. Recycled water will be used for irrigation purposes, which is approximately 14 KLD to cater 2743 sqm of Green area. At present no treated water is being utilized for irrigation or flushing. After occupancy treated water will be used for flushing (44 KLD) and road washing (10 KLD). Surplus water available if any will be discharged into natural drains after tertiary treatment.	Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of 647 medium and tall height trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is approximately 18 % of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.

10	Parking provided appeared in adequate. PP has been required to provide basic of parking spaces and resubmit the parking plan including covered, basement and open parking area not clearly on it.	As per MoEF norms regulation parking space is required for 299 vehicles (1 ECS/100 sqmbuiltup area). About 330 parking spaces are provided in stilt area and open areas. 10% Visitors parking will also be provided in open area.	Car/ bike parking space for the residents is provided in the stilt/open area. Dedicated car parking spaces are provided marked with flat nos. as per PP about 330 car parking spaces are provided in stilt/ open area. Addition car parking is provided for visitors.
11	Details of available corpus fund and its financial management for O & M of STP, MSW management and other aspect of CMP may be submitted for consideration of SEAC.	The pp in collaboration with owners has been created a corpus fund. One time fixed amount ofRs. 10,000 is being charged to the resident at the time of possession. After complete occupancy in 331 flats corpus fund amount will be Rs. 33,10,000, which will be handed over to RWA. Corpus fund will be maintained by project proponent till RWA is not created. . Fixed monthly maintenance charge of about Rs. 1200-1500/months from every resident for common services and maintenance will be done by the builders till Dec-2016.After that RWA shall collect monthly maintenance.	-----

The above inspection report of sub-committee was placed before the committee wherein it was observed that PP has shown positive intent for compliance of environmental norms by providing adequate plantation, STP and has developed other desired facilities. The committee found the compliances made by the PP satisfactory and acceptable and hence the case is recommended for grant of EC subject to the following special conditions. As the credible action has already been initiated, this will be further subject to the directions of the Honøble Court in the instant case.

1. Fresh water requirement for the project shall not exceed 176 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 647 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. Power back-up for un-interrupted operations of STP shall be ensured.

6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. PP will comply with all the commitments made in his affidavit dated 05/06/2015.

26. Case No. - 2337/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) SEIAA letter no. 2946 dtd. 6-1-2015 Environment Clearance for approval of proposed Group Housing Project "Fortune Signature" at Village-Badwai, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area - 36070 Sq.m., Total Built-upArea- 45583.75 Sq.m. Building Construction. Env. Consultant:DAS India, Lucknow (UP).

This is a building construction project comprising development of a township in a plot area of 36070 m² and total built-up area proposed is 45583.75 m². It was reported by the PP that this is a case of violation where credible action has been initiated. It was submitted that approx.60% construction is complete prior to submission of application for grant of EC. The construction has been ceased presently. The application and the evidence pertaining to legal action against the PP have been forwarded by the SEIAA for appraisal of the case on merits of the project. PP and his consultant presented the salient features of the project along with the environmental aspects, the impacts from the project and the mitigation adopted / proposed. The presentation and the submission made by the PP reveal following:

Brief Description:

Items	Details
Total Plot area	36,070 m ²
Deductable area under road widening	5,375 m ²
Net Plot Area	30,713 m²
Ground Coverage	Permissible: 9,213.9 sq mt (30%) Proposed: 9,213.9 sq mt (30%)
FAR (a)	Permissible: 38,391.25 m ² (@ 1.25) Compensatory FAR: 13,392.5 m ² (5357 x 2.5)

Items	Details
	Total Permissible FAR: 51,783.75 m ² Proposed Residential FAR: 45,383.75 m²
Service Area (b)	200 m ²
Total Basement Area (c)	769.5 m ²
Total Stilt Area (d)	7618 m ²
Area for informal sectors (e)	691.04 m ²
Built up area	45,583.75 m² (a + b)
Total open area	21,499.1 m ²
Landscape	Required: 10,749 m ² (50% of open area) Proposed :10,750 m ² (50% of open area)
Area utilization	Ground/ stilt + 6 Floors
Maximum Height	Approx 20 m
No. of Units	No. of units in multi dwelling unit ó 594 Informal Sector ó 32 Staff ó 150 Visitors ó 300
Parking facilities	Required Total Required Parking (as per MP Vikas Rules, 2011) 1 Vehicle space = 175 m ² of Builtup Area = 260 Vehicle space 10% parking for visitors = 26 Vehicle space Total Required Parking = 286 Vehicle Space Parking Provided Four wheeler (90% of net Stilt Area) @ 30 m ² per Vehicle Space = 6778/30 = 226 ECS Basement parking area @ 30m ² / ECS = 769/30 = 25 Vehicle Space Two wheeler (10% of net Stilt Area) @ 10 m ² per 840/10 = 84 Vehicle Space Total Provided: 335 Vehicle space
Power requirement & source	2258 kVA Source : Madhya Pradesh Kshetra Vidyut Vitran Company Limited
Power Backup	1 DG sets of 125 kVA
Water Requirement and Source	Total water requirement: 340 KLD (Fresh water: 209 KLD, Recycled water: 131 KLD) Source: Ground water till municipal supply is available

Project Facilities:

- Entrance gate with smooth bell mouth entry/ exit & security.
- Visitors Parking

- 2 BHK and 3 BHK Apartments
- EWS/ LIG
- Children's play ground
- Sound infrastructures
- Disabled Friendly design

Environmental Management Plan

- Provision of Dual Plumbing.
- Stacks of adequate height will be provided (as per MoEF norms)
- Stack emissions from DG set to be monitored.
- Exhaust from vehicles to be minimized by use of fuel efficient and well maintained vehicles having PUC certificate.
- Green belt to be provided with dust and noise absorbing species.
- Dust suppression through water sprinkling.
- Waste water will be treated in STP for recycling.
- Rain water collection in pits along the low lying areas of slope.
- Recycling of tertiary treated water to reduce dependency on ground water.
- Ensure drainage system and specific design measures are working effectively.
- Vehicles transporting loose construction material should be covered.
- Vehicle trips to be minimized to the extent possible.
- Tire washing at entry and exit points to prevent transportation of soil and dust to and fro from the site.
- Maximum utilization of natural light.
- Minimum glazing factor in regularly occupied spaces

The case was discussed in the 182nd SEAC meeting dated 28/03/2015 wherein after deliberations, committee decided to visit the project site along with 05 other similar projects before making final recommendations.

As per decision of SEAC in its 182nd meeting dated: 28th March 2015 above 06 cases of building construction were inspected by a sub-committee of SEAC comprising of Dr. Mohini Saxena Member SEAC and Shri A.P. Srivastava Member SEAC during 15th and 16th April, 2015 wherein certain details were sought from the PP and if the desired details are submitted by PP within reasonable time of 02 weeks (PP agreed for one week) the cases may be examined and PP's commitment may be taken with time schedule in the form of affidavit. Else the case may be recommended for rejection.

The PP has submitted the response to above quarries vides letter dated 03/06/2015 and 05/06/2015 which was again examined by the sub-committee which inspected the above sites in continuation to the earlier site and recommends that being defaulter cases, it is clear

that PP ignored the provisions of Environment Protection in these projects not only at planning stage but also at the construction stage. These six projects are not meeting most of the norms set for Environment Protection. Moreover, it is extremely difficult to implement environment Protection measures at this advance stage of completion of these projects.

In view of the above, these six cases may not be recommended for grant of EC MPSEIAA may be recommended to issue directions to stop all construction & development activities with immediate effect. An advertisement stating the decision in these cases may be given in local News Papers in the larger public interest.

The above site inspection report of the sub-committee, response from the PP to the quarries and subsequent comments and recommendations made by the sub-committee were placed before the committee in the 229th meeting of SEAC dated 01/10/2015 wherein after discussions & deliberations committee, while agreeing with the recommendations of the sub-committee, decided that in the view of the recommendations made by the sub-committee these above six cases (2335/15, 2336/15, 2337/15, 2338/15, 2339/15 & 2340/15) cannot be recommended for grant of Environmental clearance at this stage.

All the above six cases of building construction including the present case were sent back by SEIAA vides letter no. 7510 dated 09/11/2015 to consider the cases individually and give recommendations separately.

The above letter along with the case files were placed before the committee in the 255th SEAC meeting dated 02/01/2016 wherein committee after deliberations decided that a site inspection of all the above cases be carried out to verify the present status of all the cases and make recommendations for each case separately and as per decision of SEAC in its 255th meeting dated 02/01/2016.

As decoded, these cases of building construction were inspected by a sub-committee of SEAC comprising of Shri. K. P. Nyati, Dr. Mohini Saxena and Shri Manohar K. Joshi, Member SEAC on 17/01/2016.

As all the projects belong to same group, PP made a power point presentation of all the six projects on the activities carried out by them for implementation of the recommendations made by the previous committee and the project wise observations of the committee are as follows:

Sl No	Queries raised in site visit report of April,2015	Response from the project proponent now for proposed Group Housing Project "Fortune Signature"	Compliance status as on inspection date 17/01/2016															
1.	<p>All the 6 projects are in advance stage of completion of construction. Possession of a good number of dwelling units has been given and many of them have been occupied. Many more are ready possession. All though number of dwelling units in each case were verbally informed by the project proponents, they have requested to provide exist detail of occupancy/handed over possession and completion of dwelling units ready to hand over possession. Quantum of left out were in each other projects may be also be submitted.</p>	<p>Details of total no of proposed units, units under possession and units ready for possession in the proposed project are mentioned in the table below:</p> <table border="1" data-bbox="470 531 1062 829"> <thead> <tr> <th>No of Units</th> <th>Proposed units</th> <th>Possession given</th> <th>Under construction</th> <th>Units completed</th> </tr> </thead> <tbody> <tr> <td>Flats</td> <td>474</td> <td>60</td> <td>284</td> <td>190</td> </tr> <tr> <td>LIG/EWS</td> <td>32</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Approximately 75 % of civil work is completed, resolution is already provided by the pp along with application. • Current Occupancy: - 10 	No of Units	Proposed units	Possession given	Under construction	Units completed	Flats	474	60	284	190	LIG/EWS	32	---	---	---	<p>It was informed by the PP during the site visit that the total land area of the project is 36,070 Sq.m. and the proposed built up area of the project is 45,583.75 Sq.m. which is same as in application filed for environment clearance. Some amount of construction work has already undertaken, PP has submitted a resolution along with the application for the same.</p> <p>The Project consists of group housing with all the basic amenities. Some group housing blocks have already been constructed & 60 possessions have been given.</p> <p>During site inspection no construction activity has been observed. As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance.</p>
No of Units	Proposed units	Possession given	Under construction	Units completed														
Flats	474	60	284	190														
LIG/EWS	32	---	---	---														
2.	<p>PP stated that all the project were as per master plan 2021 and land use shown in master plan 2021 as residential hence will not required any diversion of land use from agriculture to residential. As master plan 2021 is not yet approve/published and applicable, the entire project required diversion of land use even if covered under master plan 2005.</p>	<p>Land use of the proposed project is residential as per the master plan 2005. Land use certificate based on Master plan 2005 and land diversion certificates are attached as Annexure-I & II.</p>	<p>As per the details provided by PP during site inspection, the project is within the boundaries of Bhopal Master Plan 2005 of Bhopal Development Authority. The land use of the project land is residential and documents related to land diversion and ownership of land have already been submitted along with application.</p>															

	<p>Project Proponent informed that they have obtained land use diversion in many and agreed to submit a copy of such approvals in respect of all the 6 projects.</p>		
<p>3.</p>	<p>No significant plantation has been done in any of the six projects. Except for Tulip Green (Case No.2338) on Kolar road all other five projects around Hoshangabad Road have literally no space for plantation. Even as per T &CP approval and less than 10% of total allocated land to be used for plantation. Even T & CP requirement is not complied in any of the five projects. However, project proponent insisted that they will provide plantation as per requirement of EC and have agreed to provide layout plan in each project including Tulip Green showing location of plantation, number of trees & their species on their site plan & will submit it to SEAC</p>	<p>Project layout plan is already approved from T&CP. Wherein we are required to provide 10 % open area. However we are providing 20% (6227sqm) of plot area as open area for landscaping & plantation. The details are available in the plans. Road side plantation, Plantation in the open areas and along the periphery of the project will be provided by creating suitable site conditions. About 220 trees are proposed to be planted on the site and survival shall be ensured. All this can be verified during our compliances. STP location, MSW storage site is already marked on layout plan.</p>	<p>Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of 532 medium and tall height trees have already been planted on site. PP is developing a green belt along the shores of Kaliyasot River. Dedicated green area for landscaping and peripheral plantation in the project is approximately 20 % of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.</p>
<p>4.</p>	<p>Except the Fortune Signature (Case No. 2337), all other project have only one entry & exit gate. Project proponent has been asked to provide a minimum of two gates necessary for fire & other emergency situation. They have been asked to</p>	<p>The project is already having three numbers of entry exits, of the project one from 24 m wide master plan road going through the project and other two from 24 m and 12 m wide roads situated east and west, respectively. The project has adequate networks of roads duly compliant with fire safety norms. Internal circulation roads network is of 9 m, 7.5 m and 6 m of width, which will provide conflict free movement for fire tenders during emergency. The road widths are in</p>	<p>3 numbers of Entry/exit is present on the project site, through 12 m wide road in east and another 24 m wide road in west. 24 m wide master plan road is also proposed through the project which will increase the connectivity of the project. Main entry exit is 9 m wide and all the other arterial roads are 6 m, 7.5 m and 9 m wide for conflict free Movement of</p>

	<p>provide circular roads &adequate width of other roads also for movement of fire tenders & its approach to end. Conflict free movements, aspect of movement during any emergency have not been taken into consideration while providing internal traffic circulation system of roads. They have been asked to obtain approval of fire fighter Deptt. For entire projects</p>	<p>conformance with the T&CP rules.</p>	<p>Traffic and fire tenders in case of emergency. Roads have already been constructed. Fire NOC for the project has already been obtained by the PP from the Fire department.</p>
<p>5.</p>	<p>STP - In all the projects except Tulip green, STP have been provided under ground. These STPs are based on FAB technology but found of lower capacity. Other issued related with STP are as follows</p> <p>(m) There is no proper access provided for under ground STP and there for no STP could be inspected. None of the STP was working to the satisfaction as adjudged from inflow, laid down sewage collection system its operation and effluent quality. PP has agreed to provide safe access to underground STP and design details and operational to manual to SEAC to assess its adequacy for targeted standards.</p> <p>(n) PP is to provide water supply @ 135 LPCD as per standards</p>	<p>Currently, only 10 flats are occupied and the total project population is about 50 persons. Total sewage generation from the project is about 4.3 KLD. As the amount of sewage generation is very low to operate the STP, presently the STP is being used as sewage storage tank only. Storage tanks are being regularly cleaned by BMC sewage tankers. Presently, Fresh water is being utilized for flushing and horticulture, till the STP becomes functional. STP treated water will be recycled using dual plumbing for flushing and irrigation purposes.</p> <p>In the project Machine room for STP is located above ground level and is easily accessible. For maintenance of underground tanks standby ladders are provided. All necessary protective gears have been provided on site. Color coded pipes will be provided for dual plumbing system.</p> <p>The surplus treated water will only be discharged into natural drains after tertiary Treatment and ensuring that it meets required IS : 2490(1974) standards.</p> <p>The pp commits to a properly functional STP, ensuring recycling of water using dual plumbing in all flats and use of recycled water for other common activities such as irrigation & road washing.</p> <p>The pp is ensuring that wherever the STP placements is affected by road crossing, the sewer lines underneath the road will be</p>	<p>As per the details provided by PP project has a provision for 135 lpcd water supply. The source of water supply is municipal supply lines. On site STP of 400 KLD has already been constructed and was found operational during the site visit. Machine / pump room are constructed below the ground level and ladder is installed for convenient access to the machine room. Sludge pump along with filter press is installed at site for removal of excess sludge. Stand by ladders along with personal protective equipments are provided to ease the access to underground tanks for the occasional maintenance work.</p> <p>Color coded recycled water lines are provided in the buildings and in the green areas for flushing and irrigation uses. Color coded treated water storage tanks are installed on the top of each block to facilitate dual plumbing. Recycled water lines are marked with sinages.</p> <p>It was told by PP during site visit</p>

	<p>set by urban development. It will enhance sewage generation. PP has agreed to submit new water balance in also agreed to enhance the capacity of STP so as to treat additional sewage generated.</p> <p>(o) No dual plumbing has been provided by the project proponent. At this advance stage of completion of project, it is not practically possible to provide dual plumbing in any of the 6 projects. The aspect of treated water recycling, reuse and water conservation has been overlooked.</p>	<p>protected with Box type culverts.</p>	<p>that the present occupancy of the project is very less and there is no generation of surplus treated water on site till date. All the treated water is being consumed in irrigation and flushing. In future if there will be any surplus treated water; it will be discharged in Municipal Drains/ Nallah after tertiary treatment. Necessary permission for the discharge of treated sewage has already been obtained from the Nagar Nigam, Bhopal.</p>
<p>6.</p>	<p>Management of MSW (post construction) No infrastructure MSW collection has been provided. No MSW storage is provided for two day generation capacity. Barring Tulip Green no project has adequate land left for providing such storage. If there is any, the PP has been required to submit the details of MSW storage space with its location marked on site plan.</p>	<p>After full occupancy total MSW generation is estimated to 1.65 T/day. The provision of 48 hours garbage storage for a volume of 7 m³ is proposed on site using covered containers. Location and accessibility is already marked on layout plans.</p> <p>Twin bin collection system with color-coded bins will be provided for source segregation of waste material. Door to door collection system will be provided using service lifts. Aesthetics near the common collection center will maintained and the total storage time will not be more than 48 hours</p> <p>For safe disposal of MSW tie up has been made with BMC.</p>	<p>PP has earmarked an area for municipal solid waste collection inside the project premises near the STP. 2 different colored containers are provided for the source segregation of the municipal solid waste material. Color coded plastic bins have been installed on each floor for collection of waste from the occupants. PP informed during the site visit that Municipal Corporation Bhopal ensures the timely disposal of waste material on the paid basis. NOC for garbage disposal has already been procured. Committee recommended that the MSW storage area should be covered.</p>
<p>7.</p>	<p>Only roof water harvesting is provided.</p>	<p>As per CGWB guidelines adequate no. of RHW pits will be provided for roof water</p>	<p>Rain water harvesting structures</p>

		harvesting and water from paved area will be managed through storm water drain.	are present at site. Total 5 numbers of RWH pits are present on site for the rain water harvesting. Collection and transportation structures required for roof top rain water is present. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
8.	No solar geysers/hot water system and no solar street light have been installed, to minimize power consumption and promote use of renewal energy source. PP has been asked to provided details if proposed/planned.	10% of solar lighting will be provided for street lighting and 20% solar lighting will be ensured in common areas.	PP ensured to provide 10% of solar lighting for street lighting and 20% solar lighting in common areas. Around 10 nos. of solar street lights are already installed at site. For lightening in the common areas solar panels having capacity of 1.25 kVA have already been installed. LEDs/ CFLs are provided in common areas to reduce the electricity consumption.
9.	Most of the land/area is covered with concrete/paved surface. There is not must possibility to use treated water for plantation/horticulture.	Based on discussion during visit, plantation and landscape areas have been reworked which is approximately 20% of net plot area. Recycled water will be used for irrigation purposes, which is approximately 31 KLD to cater 6227sqm of Green area.	Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of 532 medium and tall height trees have already been planted on site. PP is developing a green belt along the shores of Kaliyasot River. Dedicated green area for landscaping and peripheral plantation in the project is approximately 20 % of the total land area. PP has created additional space for plantation by removing paved blocks/cutting the CC roads for providing additional plantation.
10.	Parking provided appeared in adequate.	As per MoEF norms regulation parking space is required for 455 vehicles (1 ECS/100	Car/ bike parking space for the

	PP has been required to provide basic of parking spaces and resubmit the parking plan including covered, basement and open parking area not clearly on it.	sqmbuiltup area). About 475 parking spaces are provided in stilt area and open areas. Basement parking is provided under commercial block. Additional visitors parking is also provided in open area.	residents is provided in the stilt/open area. Dedicated car parking spaces are provided marked with flat nos. as per PP about 475 car parking spaces are provided in stilt/ open area. Addition car parking is provided for visitors.
11.	Details of available corpus fund and its financial management for O & M of STP, MSW management and other aspect of CMP may be submitted for consideration of SEAC.	The pp in collaboration with owners has been created a corpus fund. One time fixed amount of Rs. 10,000 is being charged to the resident at the time of possession. After complete occupancy in 474 flats corpus fund amount will be Rs. 47,40,000, which will be handed over to RWA. Corpus fund will be maintained by project proponent till RWA is not created. Fixed monthly maintenance charge of about Rs. 1200- 1500/months from every resident for common services and maintenance will be done by the builders till Dec-2016.After that RWA shall collect monthly maintenance.	-----

The above inspection report of sub-committee was placed before the committee wherein it was observed that PP has shown positive intent for compliance of environmental norms by providing adequate plantation, STP and has developed other desired facilities. The committee found the compliances made by the PP satisfactory and acceptable and hence the case is recommended for grant of EC subject to the following special conditions. As the credible action has already been initiated, this will be further subject to the directions of the Honøble Court in the instant case.

1. Fresh water requirement for the project shall not exceed 286 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 532 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. Power back-up for un-interrupted operations of STP shall be ensured.

6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. PP will comply with all the commitments made in his affidavit dated 05/06/2015.

27. Case No. - 2338/2015 Shri Anil Khanna, General Manager, M/s Fortune Soumya Housing, S-3/4, City Centre-1, Press Complex, Zone-1, M.P. Nagar, Bhopal-462011 (MP) SEIAA letter no. 2948 dtd. 6-1-2015 Environment Clearance for approval of proposed Group Housing Project "Tulip Green" at Village-Mahabadia, Kolar Road, Tehsil & District-Bhopal (M.P.) Total Project Area - 87100 Sq.m., Total Built-upArea-1,14,947.62 Sq.m. Building Construction. Env. Consultant:DAS India, Lucknow (UP)

This is a building construction project comprising development of a township in a plot area of 87100 m² and total built-up area proposed is 1,14,947.62 m². It was reported by the PP that this is a case of violation where credible action has been initiated. It was submitted that approx.60% construction is complete prior to submission of application for grant of EC. The construction has been ceased presently. The application and the evidence pertaining to legal action against the PP have been forwarded by the SEIAA for appraisal of the case on merits of the project. PP and his consultant presented the salient features of the project along with the environmental aspects, the impacts from the project and the mitigation adopted / proposed. The presentation and the submission made by the PP reveal following:

Brief Description:

Items	Details
Total Plot area	87,100 m ²
Deductable area under road widening	3,937 m ²
Net Plot Area	83,162.9 m²
Ground Coverage	Permissible: 24,948.87 sq mt (30%) Proposed: 15,186.17 sq mt (18.26%)
FAR (a)	Permissible: 1,03,935 m ² (@ 1.25) Compensatory FAR: 7,874.20 m ² (3,937.1 x 2.0) Total Permissible FAR: 1,11,827.62 m ²
Area for informal sectors (b)	3,120 m ²
Built up area	As per MoEF: 1,14,947.62 m² (a + b) As per MPBVR: 1,11,827.62 m²

Items	Details
Total open area	67,976.2 m ² (81.76% of net plot area)
Landscape	26,854 m ² (32.3% of net plot area)
No. of units to be developed	No of Plots : 440 LIG: 85
Power requirement and Backup power	2152.5 kVA Source : Madhya Pradesh Kshetra Vidyut Vitran Company Limited 1 DG set of 82.5 KVA
Water requirement and source	Fresh water: 239 KLD Recycled treated water: 145KLD Total water: 384 KLD Source: Ground water
Sewage Treatment	Amount of waste water generated : 215KLD STP Capacity: 260 KLD Technology: FAB
Solid waste management	Domestic waste : 1381 kg/day Horticultural waste : 99 kg/day E- waste : <1kg/day
Estimated Population Fixed + floating	Residential including LIG: 2625 Staff : 200 Visitors: 250

Project Facilities:

- Entrance gate with smooth bell mouth entry/ exit & security.
- Visitors Parking
- EWS/ LIG
- 12m, 9m, 7.5m and 6m wide internal road
- Children's play ground
- Sound infrastructures
- Disabled Friendly design

Environmental Management Plan

- Silent Type DG set with anti-vibration pad will be provided.
- Stacks of adequate height will be provided (as per MoEF norms) and stack emission will be monitored
- Exhaust from vehicles to be minimized by use of fuel efficient and well maintained vehicles having PUC certificate.
- Green belt to be provided with dust and noise absorbing species.
- Dust suppression through water sprinkling.
- Waste water will be treated in STP for recycling.
- Rain water collection in pits along the low lying areas of slope.
- Recycling of tertiary treated water to reduce dependency on ground water.
- Ensure drainage system and specific design measures are working effectively.
- Vehicles transporting loose construction material should be covered.
- Vehicle trips to be minimized to the extent possible.
- Maximum utilization of natural light.
- Minimum glazing factor in regularly occupied spaces

The case was discussed in the 182nd SEAC meeting dated 28/03/2015 wherein after deliberations, committee decided to visit the project site along with 05 other similar projects before making final recommendations.

As per decision of SEAC in its 182nd meeting dated: 28th March 2015 above 06 cases of building construction were inspected by a sub-committee of SEAC comprising of Dr. Mohini

Saxena Member SEAC and Shri A.P. Srivastava Member SEAC during 15th and 16th April, 2015 wherein certain details were sought from the PP and if the desired details are submitted by PP within reasonable time of 02 weeks (PP agreed for one week) the cases may be examined and PP's commitment may be taken with time schedule in the form of affidavit. Else the case may be recommended for rejection.

The PP has submitted the response to above quarries vide letter dated 03/06/2015 and 05/06/2015 which was again examined by the sub-committee which inspected the above sites in continuation to the earlier site and recommends that "Being defaulter cases, it is clear that PP ignored the provisions of Environment Protection in these projects not only at planning stage but also at the construction stage. These six projects are not meeting most of the norms set for Environment Protection. Moreover, it is extremely difficult to implement environment Protection measures at this advance stage of completion of these projects".

In view of the above, these six cases may not be recommended for grant of EC MPSEIAA may be recommended to issue directions to stop all construction & development activities with immediate effect. An advertisement stating the decision in these cases may be given in local News Papers in the larger public interest.

The above site inspection report of the sub-committee, response from the PP to the quarries and subsequent comments and recommendations made by the sub-committee were placed before the committee in the 229th meeting of SEAC dated 01/10/2015 wherein after discussions & deliberations committee, while agreeing with the recommendations of the sub-committee, decided that in the view of the recommendations made by the sub-committee these above six cases (2335/15, 2336/15, 2337/15, 2338/15, 2339/15 & 2340/15) cannot be recommended for grant of Environmental clearance at this stage.

All the above six cases of building construction including the present case were sent back by SEIAA vide letter no. 7510 dated 09/11/2015 to consider the cases individually and give recommendations separately.

The above letter along with the case files were placed before the committee in the 255th SEAC meeting dated 02/01/2016 wherein committee after deliberations decided that a site inspection of all the above cases be carried out to verify the present status of all the cases and make recommendations for each case separately and as per decision of SEAC in its 255th meeting dated 02/01/2016.

As decoded, these cases of building construction were inspected by a sub-committee of SEAC comprising of Shri. K. P. Nyati, Dr. Mohini Saxena and Shri Manohar K. Joshi, Member SEAC on 17/01/2016.

As all the projects belong to same group, PP made a power point presentation of all the six projects on the activities carried out by them for implementation of the recommendations made by the previous committee and the project wise observations of the committee are as follows:

Sl No.	Queries raised in site visit report of April,2015	Response from the project proponent now for proposed Group Housing Project "Tulip Green"	Compliance status as on inspection date 17/01/2016															
1.	<p>The project is a mix of flats/duplex and plots for dwelling units. A few duplex & homes have been constructed & possession given. A few of them have been occupied. Plots have been provided on major part of the land & most of them have been sold.</p>	<p>Details of total no of proposed units, units under possession and units ready for possession in the proposed project are mentioned in the table below:</p> <table border="1" data-bbox="451 600 1024 863"> <thead> <tr> <th>No of Units</th> <th>Proposed units</th> <th>Possession given</th> <th>Units under construction</th> <th>Units completed</th> </tr> </thead> <tbody> <tr> <td>Plots</td> <td>207</td> <td>207</td> <td>5</td> <td>--</td> </tr> <tr> <td>Duplexes</td> <td>259</td> <td>10</td> <td>65</td> <td>42</td> </tr> </tbody> </table> <p>Approximately 40 % of civil work is completed, resolution is already provided by the pp along with application. Occupancy: 2 Duplexes</p>	No of Units	Proposed units	Possession given	Units under construction	Units completed	Plots	207	207	5	--	Duplexes	259	10	65	42	<p>The Project consists of Residential Plots & duplexes with all the basic amenities. Some duplexes have already been constructed & 217 possessions have been given. As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance.</p> <p>It was informed by the PP during the site visit that the total land area of the project is 87,100 Sq.m. and the proposed built up area of the project is 1,14,947.62 Sq.m. which is same as in application filed for environment clearance. Some amount of construction work has already undertaken, PP has submitted a resolution along with the application for the same.</p> <p>During site inspection no construction activity has been observed. As per information provided by the PP no civil work was carried out since the PP applied for Environment Clearance.</p>
No of Units	Proposed units	Possession given	Units under construction	Units completed														
Plots	207	207	5	--														
Duplexes	259	10	65	42														

2.	<p>Project proponent has yet to provide infrastructure for STP & MSW handling. No efforts have been made to provide plantation & green belt.</p>	<p>After full occupancy total MSW generation is estimated to 1.5 T/day. The provision of 48 hours garbage storage for a volume of 7m³ is proposed on site using covered containers. Location and accessibility is already marked on layout plans.</p> <p>Twin bin collection system with color-coded bins will be provided for source segregation of waste material. Door to door collection system will be provided.</p> <p>Aesthetics near the common collection center will be maintained and the total storage time will not be more than 48 hours. PP will ensure the safe disposal of MSW to the nearest disposal site.</p>	<p>Two number of different color coded containers are provided on site for 48 hours storage of MSW generated from the project. Color coded plastic bins are provided all over the campus for garbage collection.</p>
3.	<p>PP has agreed to provide STP, MSW storage, plantation & green belt. He has also agreed for dual plumbing, reuse of treated sewage etc. This may be verified during appraisal.</p>	<p>Bhopal, in central India, is already a water scarce zone and the PP has taken water requirement & utilization as per latest MOEF norms of @ 86 lpcd with 21 L of recycled water. This is also in conformance to the CGWB requirement for rain water harvesting. Project is provided with necessary water saving fixtures to reduce per capita water consumption and to meet the required 86 lpcd norms.</p> <p>The project layout plan is already approved from T&CP. Wherein we are required to provide 10 % open area. We are providing 14% (12195 sqm) of open area for landscaping & plantation.</p> <p>STP capacity has been estimated keeping in mind 65 lpcd of fresh water and the additional 21 flushing water. The project is proposed to have residential population of 3075 (after complete occupancy) including staff and visitors. Total sewage generation is estimated about 215 KLD, and the capacity of STP is 260 KLD which is 20% higher than required capacity.</p> <p>Dual plumbing facility will be provided in rest, yet to construct Duplexes. Recycled treated water will also be utilized for irrigation, road washing and other low end uses.</p>	<p>As per the details provided by PP project has a provision for 135 lpcd water supply. On site STP of 300 KLD has already been constructed. Sludge pump along with filter press is installed at site for removal of excess sludge.</p> <p>PP is providing 14 % of the total plot area for landscaping and plantation. Total 1,635 nos. of large and medium height trees are already planted onsite.</p> <p>Color coded recycled water lines are provided in the buildings and in the green areas for flushing and irrigation uses. Recycled water lines are marked with sinages.</p> <p>It was told by PP during site visit that at the present occupancy status of the project no surplus treated water is</p>

			<p>produced. All the treated water is being consumed in irrigation and flushing. In future if there will be any surplus treated water; it will be discharged in Nallah / sewer lines after tertiary treatment. Necessary permission for the discharge of treated sewage has already been obtained from the respective authority.</p> <p>PP has earmarked an area for municipal solid waste collection inside the project premises. 2 different colored containers are provided for the source segregation of the municipal solid waste material. Color coded plastic bins have been installed on each floor for collection of waste from the occupants.</p>
4.	<p>As the environmental aspects have not been initially taken into consideration at conceptual stage of the project, PP may have to spare adequate land for all such facilities they have to obtain permission for ground-water drawl PP is to ensure that no treated sewage is discharged beyond its boundary.</p>	<p>Based on discussion during visit, plantation and landscape areas have been reworked which is approximately 14% of net plot area. Recycled water will be used for irrigation purposes, which is approximately 60 KLD to cater 12195sqm of Green area.</p> <p>At present no treated water is being utilized for irrigation or flushing. After occupancy treated water will be used for flushing (6 KLD) and road washing (10 KLD). Surplus water available if any will be discharged into natural drains after tertiary treatment.</p> <p>Ground water drawl permission will be secured from CGWB.</p>	<p>Peripheral plantation, plantation in the open areas/parks has already been provided. As per PP a sum total of 1635 medium and tall height trees have already been planted on site. Dedicated green area for landscaping and peripheral plantation in the project is approximately 14.5 % of the total land area.</p>

OTHER OBSERVATIONS

- ✓ The project has only 1 numbers of Entry/exit from the Kolar Road. Main entry exit is 12 m wide and all the other arterial roads are 6 m, 7.5 m, 9 m and 12 m wide for conflict free

- movement of Traffic and fire tenders in case of emergency. Roads have already been constructed.
- ✓ 1 nos. of RWH pits have already been constructed on site. Collection and transportation structures required for roof top rain water is present. PP also ensured to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
 - ✓ Around 15 nos. of solar street lights are already installed at site. LEDs/ CFLs are provided in common areas to reduce the electricity consumption.
 - ✓ Individual car parking facility is provided for residents of plots and duplexes. Addition car parking is provided for visitors.
 - ✓ During inspection as per the suggestion of the committee, PP agrees that dual plumbing will be provided in the all duplexes proposed for construction in future.

The above inspection report of sub-committee was placed before the committee wherein it was observed that PP has shown positive intent for compliance of environmental norms by providing adequate plantation, STP and has developed other desired facilities. The committee found the compliances made by the PP satisfactory and acceptable and hence the case is recommended for grant of EC subject to the following special conditions. As the credible action has already been initiated, this will be further subject to the directions of the Hon~~o~~ble Court in the instant case.

1. Fresh water requirement for the project shall not exceed 268 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 1635 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. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided in all the duplexes proposed.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.

11. 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.
12. PP will obtain other necessary clearances/NOC from concerned authorities.
13. PP will comply with all the commitments made in his affidavit dated 05/06/2015.

[K. P. Nyati]
Member

[Dr. U. R. Singh]
Member

[Dr. Alok Mittal]
Member

[Dr. Mohini Saxena]
Member

[Dr. R. Maheshwari]
Member

[Dr. R. B. Lal]
Chairman