STATE EXPERT APPRAISAL COMMITTEE 12th April 2016
MINUTES OF 274th MEETING

The 274th meeting of the State Expert Appraisal Committee (SEAC) was held on 12th April, 2016 under the Chairmanship of Dr. R.B. Lal for the projects / issues received from SEIAA. The following members attended the meeting-

1. Shri K. P. Nyati, Member
2. Dr. U. R. Singh, Member
3. Dr. Mohini Saxena, Member
4. Dr. Alok Mittal, Member
5. Shri Manohar K. Joshi, Member
6. Shri. A. A. Mishra, Secretary

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

1. **Case No. – 2687/2015 Mr. Vipin Chouhan, Partner, E-2/21, Habibganj Railway Station, Arera Colony, Bhopal-462016 (M.P.)** ***Prior Environment Clearance for Proposed Residential Project "Ultimate Sky Villas" at Vill.-Bawadia Kalan, Teh.- Huzur, District-Bhopal (M.P.) Total Land Area- 26980.00 Sq. mt. (2.6980 Ha.), Total Built up Area- 45267 Sq. mt.*** **For – Building Construction. Env. Consultant: Insitu Enviro Care, Bhopal (M.P.) Revised Application Received from SEIAA letter No.** ***11816 dt. 15-03-15 rec. dt. 17/03/16, (196 SEAC Meeting dt. 02/06/15- Deferred)***

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

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

Total Plot Area : 26980.0 Sq.mt

Proposed Built–Up Area : 45267.82 Sq.mt

Land Use	**: Residential**
Building Height	**: Basement + Stilt + 30.0 m. Maximum**
ROW	**: 24.0 m. Wide Road Proposed.**
Road width /MOS	**: 12/7.5/7.5 M.**
Total No. of Blocks	**: 3 Nos. (Block A – B+30 M., Block B – S+24M. Block C S+18M.)**
Total No. of Bungalows	**: 29 Nos.**
Total No. of Flats 3/4/5 BHK	**: 187 Nos.**
Total No. of LIG	**: 13 Nos.**
Total No. of EWS	**: 20 Nos.**
Total No. of Convenient Shops	**: 27 Nos.**
Club House	**: 1 Nos.**
Total Water Demand	**: 185 KLD**
Municipal Water Supply	**: 185 KLD**
STP Capacity	**: 128 KLD on 100% Load & 150 KLD Proposed**
Solid Waste Generation	**: 0.459 TPD**
Power Demand	**: 1300 KW**
Back Up Source	**: 250 KVA (D.G. Set – 2 x 125 KVA)**
Railway Station	**: Habibganj Railway Station – 8.5 Km away from site**
Air Port	**: Bhopal Airport– 25.5 Km away from site**

LAND DETAILS

S.No.	Name	Khasra No.	Area (in Hect.)	Remarks
1	M/s. Ultimate Construction, E-2/21, Kamdhenu Tower, Area Colony, Bhopal through Partners Shri Vipin Chauhan S/o Shri V.P.S. Chauhan & Shri Bhupendra Vishawakarma S/o Shri B.R. Vishawakarma	6/2/1/1 Ga	0.101	**M/s. Ultimate Construction Land**
		6/2/1/1 Chha on part	0.073	
		6/2/1/3	0.170	
		6/2/2/2	0.243	
		7/4/5/1 Ka on part	0.340	
		7/4/5/1 Ka/2	0.032	
		7/4/5/1 Kha	0.202	
		7/4/5/1 Gha	0.032	

		Total	**1.193**	
2	Mr. Jafar Hussain S/o Mr. Yaqub Hussain, Share 1/2, Mr. Ahtesham Hyder S/o Syed. Mohd. Taki, Smt. Shameem Naqvi D/o Syed. Mohd. Taki & Smt. Sabra Khatun W/o Syed. Mohd. Taki.	6/2/1/4	0.097	**Joint Venture With M/s. Ultimate Construction.**
3	Mrs. Soni Lalchandani W/o Mr. Deepak Lalchandani and Mr. Deepak Lalchandani S/o Mr. Khyaldas.	7/4/4 Ga	0.202	
4	Mr. Ashok Mendiratta S/o Late Shri Ramdas Mendiratta.	7/4/4/Chha	0.101	
5	Mr. Madan Gopal Bhavsar S/o Mr. Babulal	6/2/1/1 Chha on part	0.073	
6	Mr. Prakash Kumar Dudhani S/o Shri Gopal Das	7/4/4/Cha	0.101	
7	Mrs. Usha Premchandani W/o Shri Prakash Premchandani	6/2/1/1 Jha	0.146	
8	Mr. Prakash Premchandani S/o Shri Lokumal Premchandani	6/2/1/1 Ka	0.146	
9	Mrs. Jaya Raichandani W/o Mr. Prakash Raichandani	6/2/1/1 Nga	0.101	
10	Mrs. Mamta Jain W/o Shri Mukesh Jain	6/2/1/1 Gha	0.101	
11	Mr. Rajesh Kumar Talreja S/o Shri B.L. Talreja	6/2/1/1 Ja	0.146	
12	Mr. Deepak Lalchandani S/o Mr. Jethanand	6/2/1/1 Cha	0.146	

	Lalchandani			
13	Mr. Rahul Soni S/o Shri B.M. Soni	6/2/1/1 Kha	0.145	
		Total	**1.505**	
		Total Land in Hect.	**2.698**	

AREA STATEMENT

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

No. of Units				
Flats	Bungalows	LIG	EWS	Shops
187	29.00	13	20	27
Building Height	30.00	mtr		
Bungalow Height	12.00	mtr		
EWS-LIG Height	18.00	mtr		

PARKING DETAILS

Block A		
Parking	Area (in Sq.mt.)	No. of ECS
Stilt	1128.04	41

Basement	2160.95	88
Block B		
Parking	Area (in Sq.mt.)	No. of ECS
Stilt	876.00	46
Block C		
Stilt	153.00	5
Total Covered Parking	4317.99	180
Open Parking		
Open Parking Area	750.00 Sq.mt.	56
Total No. of ECS		236 Cars.

SOURCE OF WATER SUPPLY

No.	Item Description	Residential
1	**Domestic Water Requirement**	**93 KLD**
2	**Flushing Water Requirement**	**49 KLD**
3	**Landscaping & other uses**	**43 KLD**
4	**Total Water Demand**	**185 KLD**
5	**STP Capacity**	**128 KLD On 100% Load** **150 KLD Proposed**
6	**Available Treated Water through STP**	**115 KLD**
7	**Net Fresh Water**	**185 KLD**

WATER BALANCE DETAILS

Daily Water Requirement

S. No.	Item Description	Numberof Persons / Seats	Water Requirement / head (litres)	Total water Requiremen (litres)
A	**Fresh Wate Requirement**			
1	Apartments/Flats & Duplex	945	90	85050
2	EWS	80	90	7200
3	Commercial Area	81	5	405
4	Maintenance Staff	20	20	400
	Sub Total of A			93055
B	**Flushing Water**			
1	Apartments/Flats & Duplex	945	45	42525
2	EWS	80	45	3600
3	Commercial Area	81	20	1620
4	Maintenance Staff	20	25	500
	Sub Total of B			48245
C	**Treated Effluent Wate Requirement – Misc. Uses**	**Sq.mt.**	**Per Liter**	
1	Landscaping	3430.02	5	17150.1
2	Misc. ï Other Uses			25000
	Sub Total of C			42150
	Total water requiremen (A+B+C)			183,450
				Orsays185 KLD

WASTE WATER TO STP				
S. No.	**Item Description**	**Total wate Requirement (litres)**	**Percentage of wate to STP @ 85 % Fo Domestic and @ 100% for Flushing**	**Totalwater Requirement (litres)**
A	**Domestic water**			
1	Apartments/Flats & Duplex	85050	0.85	72292.5
2	EWS	7200	0.85	6120
3	Commercial Area	405	0.85	344.25
4	Maintenance Staff	400	0.85	340
	Sub Total of A			79096.75

B	**Flushing Water**			
1	Apartments/Flats & Duplex	42525	1	42525
2	EWS	3600	1	3600
3	Commercial Area	1620	1	1620
4	Maintenance Staff	500	1	500
	Sub Total of B			48245
	Total waste water (A+B)			**127341.75**
		SAY CAPCITY OF STP ~		**128 KLD**
		Proposed STP CAPCITY		**150 KLD**

QUANTIFICATION OF SOLID WASTE

Facilities Provided	**Waste Generation Norms**		**Basis of Assumption**	**Unit**		**Waste Generated (TPD)**
Residential	.4	Kg/capita/day	CPCB	131	Persons	0.4524
Garden & Open Space	.003	Kg/Sq m/day	Discussion with Horticulturist	2501	Sq.m	0.007503
STP Sludge	.33	Kg/MLD of wastewater treated	Manual for Sewerage and sewage treatment by CPHEEO	0.128	MLD	0.00004224
Waste Oil	00	Liters/MW/year	Assuming one maintenance per year	.3	MW	130 Liter
Total Waste Generated (TPD)						**0.45994524**
Total Biodegradable 55 % of total (TPD)						**0.252969882**
Total Non-Biodegradable 45 % of total (TPD)						**0.206975358**

Case was presented by PP and their consultant. During presentation, it was observed that Van Vihar is at a distance of approx. 7.2 kms (a Notified PA) Clearance from NBWL is

therefore needed. PP has submitted the copy of online application made for wild life clearance with proposal no. FP/MP/OTHERS/634/2016 and date of submission is 10/03/2016. During presentation PP informed that no construction is taken place on site except sample flats which are temporary and same will be dismantled later for which committee decided to carryout site visit to ascertain the status of construction.

Committee after presentation and deliberations asked PP to submit clarification/information on following issues raised during discussion:-

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

2. Case No. - 2317/2014 Mr. Sanjay Mehta, Director, 21, Vishnupuri GNSS and M/s Raj Homes Pvt. Ltd., Zone-II, M.P. Nagar, Bhopal-462011 (M.P.) ***Building construction project "Raj Classic Apartments, RBP and and Part for Multiunit Construction Projct Raj House" at Khasra No.-311/43,43,41,45/1/1/1, Village-Narela Shankari, Tehsil-Huzur, District-Bhopal (M.P.) Total Land Area – 3.44 ha.,Total Build up Area – 77812.13 Sq.m.*****, FoR- Building Construction. Env. Consultant : Creative Enviro Services, Bhopal (M.P.) Recieved from SEIAA letter No. 11730 dt. 09-03-16 rec. 9/03/16, Revised App. Forwarded to SEIAA 411 dt. 04/4/16 CF 273 SEAC Meeting dt. 01/04/16.**

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.

The case was earlier recommended in the 172nd SEAC meeting dated 22/02/2015 with following recommendations:

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

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

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

SEIAA vide their letter no. 11730/SEIAA/2016 dated 09/03/2016 have sent back the file to SEAC as previously PP has applied for an area of 3.88 ha now the land area is reduced by 0.44 ha i.e. 3.44 ha. and have submitted revised From-1, 1A and conceptual plan for re-appraisal in view of changes made in project with respect to prior recommended conditions i.e. change in water requirement, waste water discharge, MSW and Green area etc due to reduction in the land area.

The case was presented by the PP and their consultant wherein it was observed that PP has reduced the area from 3.88 ha to 3.44 ha. The revised project details are as follows:

BRIEF REVISED PROJECT DETAILS

Sl.No.	Project Requirement	Details

1	Proposed Project	RESIDENTIAL AND BUSINESS CENTRE
2	Location	Survey No. 45/1/1/1, 311/43,43-41 Village Narela Shankari, J. K. road, Tehsil Huzur, Bhopal . (MP)
3	Owner of the land	Vishnupuri Housing Society Ltd.
4	Plot Area	Total Land Area =3.44 ha. (34423.19 sqm)
5	Proposed Built-up Area	Total Built Up Area = 77812.22sq mt
6	Landscaped Green Area	2657.00 sqm (10.06%)
7.	Dwelling Units	Raj Classic Apartment : 250 HIG, 31 MIG, Informal sector : 34 LIG and 50 EWS Multi unit block: 18 MIG and Raj business center.
8	Total Water requirement	294 kld
9	Solid waste generated	874 kg
10	No. of Parking proposed	706 No. (parking required 496)
11	Total Power requirement	1400 KW

DETAILED AREA COMPARATIVE STATEMENT

S.No.	Description	Revised details		Previous details	
		Areas in Sqm	Built up areas	**Areas in Sqm**	Built up areas
A.	Total Plot Area	34423.19		38823.19	
	Less area under 30 m road widening	8022.62		9422.62	
B.	Net Potable Area	26400.57		29400.57	

	Permissible Ground Coverage	30% of each plot		30% of each plot	
	Open Area Permissible (Min.) 10% Open Area Proposed	2657.00		2940.00	
	Services Area	294.00		294.00	
	Permissible FAR	1:2.5		1:2.5	
C.	Road & Circulation	110.36		110.36	
D.	Plot for Raj Classic Apartments	10112.99	32904.44	13112.99	39338.94
E.	Plot for Multi unit development	1002.25	1804.00	1002.25	1804.00
F.	Plot for Raj Business centre	2013.44	6443.00	2013.44	6443.00
G.	Area of LIG/EWS Flats		1789.00		1789.00
H.	Built up area common spaces		10156.12		11291.62
I.	Built up area parking space		24715.66		26986.66
	Total		**77812.22**		**87653.22**

COMPARISON AT A GLANCE

S. No.	**HEADS**	**Project details as appraised in 172nd Meeting of SEAC**	**Modified project details**	**REMARKS**
Salient features of the project:				
1	Location	Survey No. 45/1/1/1, 311/43,43-41, 45/1/1/2/1 AND 35/1	Survey No. 45/1/1/1, AND 311/43,43-41	**Survey number of Raj Homes is deleted**
		Village Narela Shankari, J. K. road, Tehsil Huzur, Bhopal . (MP)	Village Narela Shankari, J. K. road, Tehsil Huzur, Bhopal . (MP)	
2	Owner of the land	Vishnupuri Housing Society Ltd. and Raj Homes Pvt. Ltd	Vishnupuri Housing Society Ltd.	**Raj Homes is deleted**

3	Plot Area	3.88 ha. (38823.19 sqm)	3.44 Hect. (34423.19 sqm)	
4	Proposed Built up Area	**87653.22** sq mt	**77812.22 Sq.mtr.**	
5	Landscaped	Green Area 2940.00 sqm	Green Area 2657.00 sqm	Reduced by 283 sqm
6	Dwelling Units	HIG/MIG 369	HIG/MIG 299	Reduced by 70 Units
		34 LIG and 50 EWS	34 LIG and 50 EWS	
		Raj business center.	Raj business center.	
7	Total Water requirement	341 kld	294 kld	Reduced by 47 kld
8	Solid waste generated	1013 kgpd	874 kgpd	Reduced by 139 kgpd
9	No. of Parking proposed	770 No. (parking required 562)	706No. (parking required 496)	
10	Total Power requirement	1500 KW	1400 KW	

S. No.	**HEADS**	**Project details as appraised in 172nd Meeting of SEAC**	**Modified project details as directed by SEIAA**	**REMARKS**
A.	Total Land	3.88 Hect. (38823.19 Sq.mtr.)	3.44 Hect. (34423.19 Sq.mtr.)	Reduced by 0.44 hect.
	Area under 30 mtr. road widening	9422.62 Sq.mtr.	8022.62 Sq.mtr.	Reduced by 1400.00 Sq.mtr. In 30 mtr. Road widening
B.	Open Area	2940.00 Sq.mtr.	2657.00 sq mtr	Reduced by 283 sqm
	Service Area	294.00 Sq.mtr.	294.00 Sq.mtr.	Same
C.	Road & Circulation	110.36 Sq.mtr.	110.36 Sq.mtr.	Same
D. (i)	Plot for Raj Classic Apartments	13112.99 Sq.mtr.	10112.99 Sq.mtr.	3000.00 Sq.mtr. Reduction in Plot area.
(ii)	Plot for Multiunit development	1002.25 Sq.mtr.	1002.25 Sq.mtr.	Same

(iii)	Plot For Raj Business Park (RBP ï 1)	2013.44 Sq.mtr.	2013.44 Sq.mtr.	Same

E.	Total Built Up Area	87653.22 Sq.mtr.	77812.22 Sq.mtr.	Reduced by 9841 Sq.mtr.
i.	Raj Classic Apartments	39338.94 sq.mtr	32904.44 sq.mtr	Reduced by 6434.50 Sq.mtr.
ii.	Multiunit developmen	1804.00 sq.mtr	1804.00 sq.mtr	Same
iii.	Raj Business Park (RBP ï 1)	6443.00 sq.mtr	6443.00 sq.mtr	Same
iv.	Built up area Common spaces	11291.62 Sq.Mtr	10156.12 Sq.Mtr	Reduced by 1135.50 Sq.mtr.
v	Built up area parking space	26986.66 Sq. Mtr.	24715.66 Sq. Mtr.	Reduced by 2271.00 Sq.mtr.
F.	No. Of Units	No. Of Flats ï 369	No. Of Flats ï 299	70 Flats Reduced
		No. Of LIG ï 50	No. Of LIG ï 50	
		No. Of EWS ï 34	No. Of EWS ï 34	

G.	Parking Area	26986.66 Sq. Mtr.	24034.36 Sq. Mtr.	
	Required	562 PCU	496 PCU	Reduced By 66 PCU
	Provided	770 PCU	706 PCU	Reduced By 64 PCU
H.	Power Requirement	1500 KW	1400 KW	Reduced by 100 KW in Power but proposed transformers are same
I.	Total Water Requirement	341 KLD	294 KLD	Reduced By 45 KLD

J.	Solid Waste Generation	1013 Kg. Per day	874 Kg. Per day	Reduced By139 Kg.
K.	Sewerage Treatment Plant	300 KLD.	300 KLD.	Same
L.	Land Scape Area (Play Park and Green Belt)	7685.2 Sq.mtr.	7402.2 Sq.mtr.	Reduced by 283 sqm

WATER DEMAND CALCULATION

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

REVISED WATER BALANCE

SL. No.	DESCRIPTION	FLATS/ AREA	UNIT POPU-LATION	TOTAL POPU-LATION	COLD WATER REQUIREMENT				TOTAL WATER	%AGE FLOW TO SEWER				
					FLUSHING		DOMESTIC			DOMESTIC		FLUSHING		TOTAL
					LPCD	KLPD	LPCD	KLPD	KLPD	%	KLPD	%	KLPD	KLPD

1	**RAJ CLASSIC APARTMENT**	**281**	**5**	**1405**	**45**	**63.225**	**90**	**126.45**	**189.68**	**85**	**107.48**	**100**	**63.225**	**170.71**
2	**MULTI UNIT PLOT**	**18**	**5**	**90**	**45**	**4.05**	**90**	**8.10**	**12.15**	**85**	**6.89**	**100**	**4.05**	**10.94**
3	**LIG**	**34**	**4**	**136**	**45**	**6.12**	**90**	**12.24**	**18.36**	**85**	**10.40**	**100**	**6.12**	**16.52**
4	**EWS**	**50**	**3**	**150**	**45**	**6.75**	**90**	**13.50**	**20.25**	**85**	**11.48**	**100**	**6.75**	**18.23**
5	**BUSINESS CENTRE POPULATION 10 SQM /PERSON ON BUILT UP AREA**	**6443**	**10**	**644**	**25**	**16.10**	**20**	**12.88**	**28.98**	**85**	**10.95**	**100**	**16.1**	**27.05**
6	**WATER FILTER BACKWASH**			**L.S.**				**9.00**	**9.00**	**85**	**7.65**			**7.65**
TOTAL						**96.25**		**182.17**	**278.42**		**154.84**		**96.25**	**251.09**
Horticulture requirement		**2940**			**5**	**14.7**			**14.7**					
Total								**say**	**294.00**					

Total Water Requirement : 294 KLD
Flushing Water Requirement : 97 KLD
Horticulture requirement : 15 KLD
Net Water Requirement : 197 KLD
Total Waste Water generation : 251 KLD
Excess treated water available : @ 130 KLD

CALCULATION OF SOLID WASTE GENERATION

SL. No.	DESCRIPTION	FLATS/ AREA	UNIT POPULATION	TOTAL POPULATION	Solid waste	
					Municipal	Total
					Kgpd	Kgpd
1	RAJ CLASSIC APARTMENT	281	5	1405	0.40	562.00
2	MULTI UNIT PLOT	18	5	90	0.40	36.00
3	LIG	34	4	136	0.40	54.40
4	EWS	50	3	150	0.40	60.00
5	BUSINESS CENTRE POPULATION 1 SQM /PERSON ON BUILT UP AREA	6443	10	644	0.25	161.00
TOTAL						873.40

The case was presented by the PP and their consultant wherein the submissions made by the PP were found to be satisfactory and acceptable. The recommendations of the committee in respect

of issues raised by SEIAA in their letter no. 11730/SEIAA/2016 dated: 9/3/16 are as below:

1. Fresh water requirement for the project shall not exceed 197 KLD. 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.
2. 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 360 numbers of trees will be planted in residential area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
3. As proposed, STP of 300 KLD be provided by the PP. Grit chamber with effective grit removal device shall also be provided in the STP.
4. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW. Power back-up for un-interrupted operations of STP shall be ensured.
5. MSW storage area should have 48 hours storage capacity.

3. 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 Ploteed Development Area - 52773 M2.*** **For-Building Construction. Env. Cons. – Iconic Envirotech(P) Ltd. Delhi. Case forworded to SEIAA letter No.** ***8149 dtd. 26-11-15 Rec.dt-4/12/15*** **CF 269 dt. 29/02/16 & 272 dt. 31/03/16.**

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.

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.
5.	Ground coverage details	Permissible Multi unit Development@30% 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)**
14.	**Total No. of Dwelling Units**	**Duplex = 193** **Multi-Unit Block-A (G+8) 32 X 8 = 256** **Multi-Unit Block-B (G+8) 4 X 8 = 32** **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**
16.	**Parking Area**	**2949 sq.m. in Stilt area (98 Cars)** **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.
19.	Water requirement and Source	Total Water Requirement = 454 KLD 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 / M^2

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 M^2 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 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.

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-Snehlataganj, Tehsil-Indore, District-Indore (MP)*** **For Building Construction. Env. Con.Not disclosed. Case forworded to SEIAA letter No. 11281-82/ dtd. 16-02-16 rec. 19/02/16 CF 270 dt. 02/03/16, CF 273 dt. 01/04/16.**

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	**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
4.	Accreditation of consultant (NABET Accreditation)	**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.**
5.	Type of project: Housing project / Industrial Estate / SRA scheme / MHADA / Township	**Apparel Park (Commercial) and Residential Blocks**

<table>
<tr><td></td><td>or others</td><td></td></tr>
<tr><td>6.</td><td>Location of the project</td><td>The project is located at KH. No. 148, 148/1653 & 151/1654, Snehalataganj, Indore Tehsil, & District, Madhya Pradesh</td></tr>
<tr><td>7.</td><td>Whether in Corporation / Municipal / other area</td><td>Indore Municipal Corporation</td></tr>
<tr><td>8.</td><td>IOD/IOA/Concession document or any other form of document as applicable(Clarifying its conformity with local planning rules & provision)</td><td>Approvals Received :
Å Building Layout Sanction by Deputy Director, Town and Country Planning Indore(M.P.) vide letter no. 10210 dated 29.12.2015
Å High rise clearance vides letter No. 6381/ High rise/ NGN/2015 dated 7.8.15 for height 24.0 mt and 42.0 mt.
Å Water NOC vide Letter No. 4897/15-16 Dated 28.12.2015
Å Solid waste Disposal NOC vide letter no. 2294 dated 19.10.2015 from Health Officer, Nagar Palik Nigam, Indore
Å Sewerage NOC from Drainage Department , Nagar Palik Nigam, Indore vide Letter No. 1556 Dated 18.1.2016</td></tr>
<tr><td>9.</td><td>Note on the initiated work (If applicable)</td><td>No. Work is not initiated at site Ref Declaration Letter by MP Housing and Infrastructure Development Board, Indore, Madhya Pradesh</td></tr>
<tr><td>10.</td><td>Area Statement</td><td>The Area Statement for proposed project :
<table>
<tr><th>Sr.</th><th>Items</th><th>Details (in Sq.mt.)</th></tr>
<tr><td>1</td><td>Total Plot Area (Sq. m)</td><td>12,747.60</td></tr>
<tr><td>2</td><td>Area under Road Widening</td><td>969.00</td></tr>
</table></td></tr>
</table>

		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**
		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)	**The project involves the construction:**		
			Items	**Details (in Sq.mt.)**
			Base ment	**2 basement common to both buildings**
			Resid	**Block A : Stilt + 14 Floors + Service**

			ential	**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 5th Floor and upper residential Floor up to 7th Floor** **Height : 24.0 mtrs**
13.	Occupancy	**Residential: 1238 nos.** **Commercial: 577 nos.** **Total: 1815 nos.**		
14.	Height of the building(s)	**Maximum height of Residential building = 42.0 m.** **Maximum height of Apparel Park: 24.0 m.**		
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	**Total Water Requirement: 226 KLD** **Domestic Water Requirement: 115 KLD** **Flushing : 79 KLD** **Gardening: 1 KLD** **Car wash, Road Cleaning and Misc: 32 KLD**		

<table>
<tr><td></td><td></td><td>Total Sewage Generated: 182 KLD
Treated Water available for recycling : 163 KLD
Recycled Water for Flushing and Gardening: 112 KLD
Excess treated sewage drained to sewer line: 51 KLD
During construction phase, sewage will be treated and disposed through septic tanks followed by soak pits.
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.</td></tr>
<tr><td>18.</td><td>Rain Water Harvesting (RWH)</td><td>
<table>
<tr><th>Type of Area</th><th>Area (in m^2)</th><th>Coefficient of run-off</th><th>Peak rainfall intensity during one hour of rainfall (in m)</th><th>Rain water harvesting potential/hour (in m^3)</th></tr>
<tr><td>Roof-top area</td><td>3076.26</td><td>0.8</td><td>0.025</td><td>61.5</td></tr>
<tr><td>Green Area</td><td>1180</td><td>0.1</td><td>0.025</td><td>3.0</td></tr>
<tr><td>Paved area</td><td>3876</td><td>0.6</td><td>0.025</td><td>58.1</td></tr>
<tr><td colspan="4">Total storm water load on the site with per hour retention is</td><td>122.6</td></tr>
<tr><td colspan="4">Considering 15 minutes retention time, total storm water load</td><td>30.7</td></tr>
<tr><td colspan="4">Taking the radius as 0.6m and effective depth as 1.2 m, volume of a RWH pit (π r2h)</td><td>9.0</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td><table><tr><td>Hence no. of pits required in approx = Total storm water load considering 15 minutes retention time / Volume of a RWH pit</td><td>3</td></tr></table></td></tr>
<tr><td>19.</td><td>Storm water drainage</td><td>• 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 m^3/hr
• Size of SWD: 0.6 m wide and 0.45 m depth</td></tr>
<tr><td>20.</td><td>Sewage and Waste water</td><td>• Sewage generation : 182 KLD
• Capacity of STP (KLD): Total capacity of STP is 220 KLD
• STP technology: MBBR</td></tr>
<tr><td>21.</td><td>Solid waste Management</td><td>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.
<table>
<tr><td rowspan="4">Nature and quantity</td><td>Bio degradable</td><td>463.8 kg/day</td></tr>
<tr><td>Recyclable</td><td>231.9 kg/day</td></tr>
<tr><td>Inert</td><td>77.3 kg/day</td></tr>
<tr><td>Total:</td><td>773 kg/day</td></tr>
<tr><td>Collection and disposal</td><td colspan="2">Solid wastes generated will be segregated into b
biodegradable components and collected in sep
sludge from STP will be used as manure in hort
waste will be treated in Organic Waste converte
from Indore Municipal Corporation for the dis
generated from the project site with ref.no. 229
Annexure 4 NOC for Solid Waste Disposal</td></tr>
</table></td></tr>
</table>

		Recycling	**Recyclable wastes comprising paper, plastic, glass etc., will prospective buyers.**

22. **Green Belt Development**

Total RG area: On Ground 1177.86 sq.mt (10% of net Plot area)

Number & list of trees species to be planted in the ground : 82

List of Proposed Plantation for the scheme:

No.	Botanical Name	Common Name	Qty.	Characteristics & Ecological Importance
1	*Michelia champaca*	Sonchafa	3	-Evergreen tree. -Fragrant flowers blooms in spring
2	*Azadiracta indica*	Neem	5	-Fast growing tree grows up to 15-20 m height -Neem having antibacterial and antifungal activities -Used to control pests.
3	*Albizia Lebbeck*	Shirish	4	- 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	*Bauhinia racemosa*	Apata	3	-Flowers rich in nectar and pollen attracts many varieties of butterflies and insects. -Leaves offered to each other during dushera
5	*Cassia fistula*	bahava	4	-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	***Ailanthus excelsa***	**Maharukh**	**3**	**-large deciduous tree, 18-25 m tall** **-Lepidopteron larvae feeds on the plant** **-Silk spinning moths lives on its leaves**
	7	***Ficus retusa***	**Nandruk**	**5**	**- Rapidly growing, evergreen woody plant** **-Pest resistance plant** **-Religious plant in hindus**
	8	***Mimusops elengi***	**Bakul**	**4**	**-Dense canopy provides cool shade.** **-sacred tree among hindus.**
	9	***Saraca asoka***	**Sita asoka**	**4**	**-Grows good in tropical region.** **-Long living and evergreen plant.**
	10	***Neolamarckia cadamba***	**Kadamb**	**5**	**-Globe shaped orange scented flowers** **-Caterpillar species use this plant as food plant**
	11	***Nyctanthes arbor-tritis***	**Parijatak**	**5**	**-Flowers scented, small and attractive blooms in night.** **-Tree is large shrub & provides good shade.**
	12	***Largerstroemia flosregineae***	**Tamhan**	**5**	**-Large evergreen shrub,** **- Colorful flowers grows in bunches blooms in summer**
	13	***Pongamia pinnata***	**Karanj**	**3**	**-Used for biodiesel production.** **-dried leaves used as insect repellent.**
	14	***Murraya paniculata***	**Kunti**	**4**	**-Tropical evergreen plant bearing small white scented flowers, Plant is host for citrus psyllid**

15	*Gmelina arborea*	Shivan	2	-Fast growing deciduous tree -Seasonal flowers blooms in Feb.-April resistant to termites
16	*Caryota urens*	Fish Tail Palm	2	-This species is a solitary-trunked tree -Monocarpic Plant
17	*Putranjiva roxburghii*	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	*Cassia auriculata*	Tarwad	4	-Evergreen shrub suitable for landscaping roadways and home garden - Host plant for butterflies
2	*Cassia tora*	Takala	5	-Plant grows wild and used as weed also -Medicinal plant
3.	*Plumbago zeylanica*	White plumbago	5	- Herbaceous plant -Plant extracts shows potent mosquito larvicidal activity.
4.	*Adhatoda vasica*	Adulsa	5	-Evergreen shrub grows up to 2-3 m -Medicinal plant
5.	*Vitex nigundo*	Nirgudi	3	-Plant having insecticidal activity. -Medicinal plant
	TOTAL		22	

23.	E	**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 parking No's	Proposed Car parking no's	Proposed parking area (Sq.m)	Required Equivalent car space as per NBC/construction manual MoEF	Provided equivalent 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= 25 sq.m/car park**	**35.5**
	Residential Block	**Basement Parking Area (part Lower basement)**	**1 parking per 50sq.m FAR**	**201**	**Basement parking (5,180sq.m)**		**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 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 atleast 250 residents excluding readymade garments manufacturing area parking which is to be calculated separately.
2. Environmetal impacts of this project on nearby Khan River?
3. An inventory of existing trees with their management plan.
4. PPs commitment that air cooled ACôs 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.

5. <u>Case No. - 5022/16 Superintending Engineer, O/o Engineer-in-Chief, Water Resources Department, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal (M.P.) *Prior Environment Clearance for Dindori Irrigation Project in CCA of 9922 ha., at Village-Bithaldeh, Jadasurang, Tehsil-Dindori, Distt.-Dindori (M.P.)* Case forworded to SEIAA letter No. 11695 dtd. 05-03-2016 rec.dt. 15/03/16, CF 273 dt. 01/04/16. FoR - ToR Env. Consultant : Not disclosed.</u>

The proposed site is located about 90 K.m. from Dindori Latitude 22* 40' 46.70" N Longitude 81*27'13.8" E. The total percentage of irrigation of dindori district is very low that is 2.38 %. The local people of this area are also pursuing time to time for providing irrigation facilities.

To fulfill the demand of local people project is proposed. Catchment Area of the proposed dam is 283.37 Sq. Km. 75% dependable monsoon yield is 101.80 MCM. The project has been proposed for irrigation & drinking water for Karanjiya Janpad Panchayat and Villages under command. 82 Villages comes under the command area of Karanjiya, Bajag & Dindori Block. CCA of this project 9922 Hectare.

The area under submergence is 1354.17 Hectare which affects 2 villages fully & 4 villages partially. 2 MCM water is kept for drinking purpose & 5 MCM water kept for environment releases.

Introduction of the Project/Background Information

The project is proposed for irrigation purpose only and is a Earthen Dam along with gated Right Flank spillway. The profession of the people of this area is based on agriculture, the area comes under draught prone area. The percentage of irrigation of this district is very low that is 3.28 %. To improve the percentage of irrigation, Dindori Irrigation project is proposed for development of the irrigation percentage of this area.

Employment Generation (Direct and Indirect) due to the project
Direct - 15 Lakh Man days
Indirect - 35 lakh man Days

Catchment Area of the proposed dam is 283.37 Sq. Km. 75% dependable monsoon yield is 101.80 MCM. The project has been proposed for irrigation & drinking water for

Karanjiya Janpad Panchayat and Villages under command. 82 Villages comes under the command area of Karanjiya, Bajag & Dindori Block. CCA of this project 9922 Hectare. The area under submergence is 1354.17 Hectare which affects 2 villages fully & 4 villages partially. 2 MCM water is kept for drinking purpose & 5 MCM water kept for environment releases.

The case was earlier discussed in the 273rd SEAC meeting dated 01/04/2016 wherein it was decided that the PP may carry out EIA studies as per the standard TOR issued by MoEF&CC. Any additional TOR may be issued / information sought, as necessary after detailed presentation of the project by the PP during next meeting of the committee.

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

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
2. Details of compensations proposed for the persons residing in the downstream of dam who are to be deprived of water from project.
3. Cost benefit analysis including environmental factors should be included in the EIA study.
4. L-section details of dam should be provided in the EIA report.
5. Existing and proposed agricultural practices should be discussed in the EIA report.
6. Data already collected can be used in the EIA report.
7. Green belt plan and catchment area treatment plan be provided in the EIA report.
8. Inventory of existing trees and their management should be provided in the EIA report.

6. <u>Case No. - 5023/16 Superintending Engineer, O/o Engineer-in-Chief, Water Resources Department, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal (M.P.) *Prior Environment Clearance for Kharmer Irrigation Project in CCA of 9959 ha., at Village-Janki-Dungariya, Tehsil-Dindori, Distt.-Dindori (M.P.)* Case forworded to SEIAA letter No. 11697 dtd. 05-03-2016 rec.dt.15/03/16, CF 273 dt. 01/04/16. Env. Consultant : Not disclosed. FoR - ToR</u>

The proposed site is located about 35 K.m. from Dindori Latitude 22* 42' 46" N Longitude 81*07'37" E The total percentage of irrigation of dindori district is very low that is 2.38 %.

Catchment Area of the proposed dam is 145 Sq.Km. that is 75% dependable monsoon yield is 46.79 MCM. The project has been proposed for irrigation & drinking water for Samnapur Janpad Panchayat and Villages under command. 44 Villages comes under the area of command Samnapur & Amarpur Blocks. CCA of this project is completed as 9959 Hectare.

To accommodate 54.632 MCM of water the area under submergence is 962.02 Hectare which affects 03 villages partially. 1.0 MCM water is kept for drinking purpose & 2.5 MCM water kept for environment releases.

Introduction of the Project/Background Information

In case of mining project, a copy of mining lease/ letter of intent should be given. The project is proposed for irrigation purpose only based on Earthen Dam along with gated central spillway. The profession of the people of this area is based on agriculture, the area comes under draught prone area . The percentage of irrigation of this district is very low that is 3.28 % . To improve the percentage of irrigation, Kharmer Irrigation project is proposed for development of the irrigation percentage of this area.

Employment Generation (Direct and Indirect) due to the project

Direct - 5 Lakh Man days
Indirect - 25 lakh man Days

Catchment Area of the proposed dam is 145 Sq.Km. that is 75% dependable monsoon yield is 46.79 MCM. The project has been proposed for irrigation & drinking water for Samnapur Janpad Panchayat and Villages under command. 44 Villages comes under the area of command Samnapur & Amarpur Blocks. CCA of this project is completed as 9959 Hectare. To accommodate 54.632 MCM of water the area under submergence is 962.02 Hectare which affects 03 villages partially. 1.0 MCM water is kept for drinking purpose & 2.5 MCM water kept for environment releases.

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

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
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6. Data already collected can be used in the EIA report.
7. Green belt plan and catchment area treatment plan be provided in the EIA report.
8. Inventory of existing trees and their management should be provided in the EIA report.

7. Case No.- 5122/2016 Shri Bhupendra Vishwakarma, Partners, M/s Ultimate Builders, 59, Tagore Nagar, Phase-I, Khajuri Kalan Road, Bhopal (MP)-462021 ***Prior Environment Clearance for Proposed Housing Development Project "Ultimate English Villas" at Khasra no.-220, 221, 222, 223, 225/1, 226, 227/2, 227/3, 227/4, 228/1, 228/2, 229, 232, 234/1, 234/2, 237, 238, 250, Village-Borda-Kolar Road, Tehsil-Huzur, District-Bhopal (MP)*** **FoR- Building Construction. Env. Con. – ENV DAS India, Lucknow (U.P.) Case forworded to SEIAA letter No. 417 dt-4/4/16 rec.dt-05/04/16**

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.

The case was scheduled for the presentation today and the PP and their consultant were also present. During scrutiny of documents it was observed that itôs a case of violation which is evident from the affidavit and resolution of board of directors submitted by the PP along with application from stating that approx. 40% of the project already constructed prior to submission of the application for grant of environmental clearance.

Since itôs a clear case of violation, the committee after deliberations decided to refer back this case to SEIAA for credible action as per MoEF&CC OM dated 12/12/2012.

8. <u>Case No. - 5064/2016 Shri Ravindra Ramakant Gulgule, Joint Managing Director, M/s Thinq Pharma – CRO Pvt. Ltd., A/30, Thinq House, Road No. 10, MIDC Wagle Estate, Thane West (MH)-400604 *Prior Environment Clearance for Proposed Active Pharma Ingredients for M/s Thinq Pharma- CRO Pvt. Ltd., Bulk Drug & Drug Intermediate Manufacturing Plant at M 40 & 42 Industrial State Dector-3, Village-Pithampur, Tehsil-Pithampur, District-Dhar (MP)* Case forworded to SEIAA letter No. 11808 dtd. 14-03-16 rec. dt 17/03/16 Env. Consultant: Not discosed. For- ToR</u>

- The company is planning to set up a new unit as Thinq Pharma CRO ltd. at Plot No. M40-42,Pithampur industrial estate-3, Bugdoon, Dhar,Madhya Pradesh. M.P. Audyogik Kendria Vikas Nigam (Indore) LTD allotted above plot no. vide letter no. AKVN/IND/INFRA/2016/18917 dtd. 03/03/2016. The land for the project admeasuring 21794 Sq. meters is allotted by MPAKVN on lease to the company.
- The company is putting up a project to manufacture intermediates and APIs. Theses intermediates are primarily for contrast media APIs. These are iodine based. Currently, these products are imported. Producing within India should save valuable foreign exchange and also ensure un-interrupted supply of good quality of higher intermediates to API and formulation manufacturers.
- Project Land is situated within the <u>designated notified industrial area of MPAKVN</u>.
- No wildlife sanctuary/National Park/Tiger Reserve falls within 10 km radius.
- No critically polluted area falls within 10 km radius of project site.

Site Address	Plot No. M40 & 42, Pithampur Indsutrial Estate-3, Budgoon, Dhar (MP)
Production Capacity	Given below
Cost of Project	20 Crore
Boiler capacity	3 T
Power Requirement	500 KVA

Area of plantation	3268 sqmt (0.8 acre)
Alternative Source of Power	DG set of 250 KVA
Land acquired	21794square meter

PROPOSED FACILITIES;

- Separate Raw Materials and Finished Goods Storage area.
- Comprehensive Chemical Management Plan and Waste Management Plan will be implemented.
- Solvent Recovery Plant to manage Solvents
- Effluent Treatment Plant to manage Wastewater
- Installation of scrubber for fugitive emissions.
- Provision of Adequate Stack height and vents for Boiler and DG sets
- Plantation (Pollution Specific green belt development).
- Membership of TSDF Facility to manage generated wastes.

ENVIRONMENTAL SETTING OF THE PROJECT

S. No.	Particulars	Details
1	Co-ordinate	1. 22°38'46"N- 75°34'49"E (NE) 2. 22°38'46"N- 75°34'49"E (SE) 3. 22°38'46"N - 75°34'51"E (SW) 4. 22°38'46"N- 75°34'49"E (NW)
4	Nearest Town	Town ï Pithampur ï Distance ï 5 KM City ï Indore ï Distance ï 25 KM District Head quarter ï Dhar ï Distance - 25 KM

5	Nearest Railway Station/Town	Rau Railway Station approx ï 20 KM
6	Nearest Airport	Indore Domestic Airport approx - 30 KM
7	Nearest Highway/Road	Mhow- Ghatabillod Road
8	Hills/Valley	Narmada Valley
9	Ecological Sensitive Zone	None
10	Reserve Forest	None
11	Nearest Village	Budgoon -0.12 km - W
12	Nearest River/ Nalla	Local Nalla - 0.15km - W Angrer Nadi ï 5.0km - SE
13	Other industries in 5 km radius	DivyaJyoti, Indorama, Avtec Hindustan Motors, Bridgestone
14	Surrounding Features	North : Agricultural Land South : Industries and village East : Agricultural land West : Village road

AREA STATEMENT

Particulars	**Total Area (Sq. mt.)**
Total Land	21794
Built up area	13500
Open Land	8294
Particulars	Total Area (Sq. mt.)

Proposed roof area	13500
Utilities area	750
ETP area	750
AHU Area	250
Plant and machinery area	8000
Admin office	2000
Plantation	3268

PRODUCTS AND PRODUCTION CAPACITY

Sr. No.	Product	Qty MT/PA
1	(2S)-1-{[3,5-bis(chlorocarbonyl)-2,4,6-triiodophenyl]amino}-1-oxopropan-2-yl acetate(Iopamidol stage-III)	82.71
2	5-amino-2,4,6-triiodobenzene-1,3-dicarbonyl dichloride(Iopamidol stage-II)	80.29
3	Paroxetine Hydrochloride	0.4
4	QuetiapineFumatate	0.8
5	Valacyclovir hydrochloride	0.2
6	Ractopamine hydrochloride	6
7	OctopamineHydrochloride	6

8	Benzocaine	10
9	Benfothiamine	2
10	5-Phenyl valariac acid methyl ester (5-PVM)	3
11	trans Retinoic acid, 1-hydroxy-3,3-dimethyl-2-butanone ester(G-101)	0.2
12	Chlorothymol	0.3
13	N-Boc-4-Hydroxy-L-Proline	3
14	2-Nitro benzene sulfanyl chloride(NSC)	0.2
15	Sharpless catalyst	0.02

RAW MATERIAL

Sr. No.	**Key Raw materials Solvents**	**Quantity MT**
1	Iodine	218.39
2	5-amino isophthalic acid	102.37
3	L-Lactic acid	68.62
4	Acetyl chloride	89.3
5	Thionyl chloride	385.35
6	S-Carbinol	0.492
7	Tosyl chloride	0.524

8	Sesamol	0.284
9	Phenyl chloroformate	0.26
10	Dibenzo [b,f] [1,4] thiazepine-11(10H) one (DBTO)	0.776
11	Piperazine	0.584
12	Dimethyl aniline	0.312
13	2-chloro ethoxy ethanol	0.424
14	Fumaric acid	0.2
15	POCl3	0.52
16	Acyclovir	0.278
17	Cbz-L-Valine	0.388
18	Dicyclohexyl carbodiimide (DCC)	0.59
19	2ĉ-amino-4-hydroxyacetophenone	24.74
20	Raspberry ketone	5.42
21	4-Nitro benzoic acid	14.7
22	Thiamine HCl	4
23	Benzoyl chloride	1.34
24	Phosphoric acid	31.71
25	Phosphorous pentoxide	4
26	Benzene	13.16
27	Delta valaralactone	4.18
28	Aluminium chloride	10.44
29	All trans retinoic acid	0.18

30	1-chloro picolone	0.18
31	Cesium carbonate	0.21
32	Thymol	0.42
33	Sulfuryl chloride	0.45
34	Carbon tetachoride	0.96
35	4-Hydroxy L-Proline	4.17
36	BOC anhydride	8.34
37	Sodium periodate	24.46
38	Ruthenium chloride	0.01
39	2-chloro nitro benzene	0.57
40	Sodium sulfide	0.43
41	Sulfur	0.09
42	Trichloro ethylene	0.51
43	(S)-(6-methoxyquinolin-4-yl) (2R,4S,5R)-5-ethyl-1-azabiclo 2.2.2 oct-2-yl methanol. HCl	0.035
44	Dichloro Phthalyl hydrazine	0.00871

45	Toluene	59.2243
46	Methanol	24.826
47	Dichloromethane	480.872
48	Acetone	2.79918
49	Isopropanol	54.741

50	Ethyl acetate	753.01
51	Dimethyl formamide	3.342
52	Pet ether/hexane	6.36
53	Dimethyl acetamide	75.27
55	Tetrahydrofuran	24.69
55	Triethyl amine	92.54

WATER CONSUMPTION AND WASTE WATER GENERATION

Sr.No.	Heads	Consumption KLD	Generation of waste water KLD	Treatment and Disposal
1	Process	50	45	To ETP
2	Domestic	5	4	To ETP ï Aeration Tank
3	Cooling	1	1	Neutralization and use in Gardening
4	Boiler	5	3	Neutralization and use in Gardening
5	Washing	5	5	To ETP
6	Gardening	0	0	
7	Total	66	59	

Sources of Hazardous / Solid Wastes

Sources	Type of pollutants	Preventive measures	Control Measures	Treatment & Disposal

DG Sets	Used / Spent Oil	Spill prevention plans and training. Changing oil as per operation and service manual	Proper collection and storage in close lid MS drum	Sell to authorized recycler
Process/Utlity equipment maintenance	Oil Soaked Waste	Control on Issue of material, Behavorial Trainings, Proper SOPs	Monitoring and Measurement of wastes	To MPWMP, TSDF, Pithampur.
Treatment of wastewater in ETP	Chemical Sludge	Reduction measures for waste water	Proper storage in HDPE bags	To MPWMP, TSDF, Pithampur.
Discarded empty containers	Solid waste	Optimum Usage of Chemicals	Proper storage in covered Concrete Shed	Sell to authorized recycler
DM Plant, Softener	Spent Ion Resin	Spill prevention plans and training.	Proper collection and storage in close lid MS drum	To MPWMP, TSDF, Pithampur.
Mfg Process	Process Residue and wastes	Strict process control, Proper SOPs, QMS implementation.	Monitoring and Measurement of wastes	To MPWMP, TSDF, Pithampur.
Mfg Process	Spent Catalyst/Carbon	Reduction measures	Proper storage in HDPE bags	Recovery

The case was presented by the PP and their consultant for TOR to carryout EIA studies wherein it was observed by committee that MPAKVN has not issued the NOC for all the proposed products. However, committee after deliberations decided that PP can go ahead

with the standard TOR as prescribed by the MoEF&CC and should submit NOC of MPAKVN for all the proposed products within 03 weeks. Any additional TOR (if any) may be issued after receipt of NOC from MPAKVN.

DISCUSSION ON QUERRY REPLY SUBMITTED BY THE PP

9. Case No. 3363/15 Shri K.K. Lachhe, Executive Engineer, Public Works Department, Vidisha (MP)-464001 Prior Environment Clearance for approval of proposed 350 Bedded Government Hospital at Khasra No.-732/1, 736/1, 737/1, 738/1, 739/1, 740/1, 742, Vill.-Vidisha, Teh.-Vidisha, District- Vidisha (MP)

This is a case for Prior Environment Clearance for approval of proposed 350 Bedded Government Hospital at Khasra No.-732/1, 736/1, 737/1, 738/1, 739/1, 740/1, 742, Village-Vidisha, Tehsil-Vidisha, District- Vidisha (MP).

The project pertains to development of 350 bedded hospital under Category B-2, item 8 (a) of the schedule of the EIA Notification hence requires prior EC from SEIAA. Application for grant of EC was forwarded by SEIAA to SEAC for appraisal. The case was presented by the PP and their Architect in this meeting.

INFRASTRUCTURAL DETAILS

Name and Location of the Project	Proposed 350 bedded Government Hospital at Vidisha, Madhya Pradesh
Developers of the project	Public Works Department
Total Plot Area	53,987.34 sq.m.
Built-up Area	41,112.46 sq.m.
Total Water Consumption	316 KLD
Total Freshwater Requirement	152 KLD

Power Requirement	1500 KVA
Power Backup	2 DG Sets of total capacity of 2020 KVA (2 x 1010 KVA) ***Source: Madhya Pradesh Madhya Kshetra Vidyut Vitran Company Ltd.***
Total Parking proposed	125 ECS, 985 two wheelers
Solid Waste to be Generated	1044.62 kg/day (approx.1045 kg/day) and bio medical waste 131.25 kg/day (approx. 131 kg/day)
Landscape area	8365.68 sq. m.
STP Capacity	230 KLD
ETP Capacity	30 KLD
No. of RWH Pits	4 RWH Pits

AREA STATEMENT

S. No.	**Particulars**	**Area in Sq.m.**
1	**Total Plot Area**	**53987.34**
2	**Area for road widening**	**11571.72**
3	**Net plot area**	**42415.62**
4	Permissible Ground Coverage @ 30% of plot area	12724.686
5	**Total Proposed Ground coverage@22.69% of plot area**	**10167.33**
6	Proposed Ground Coverage for hospital block	8047.6
7	Proposed Ground Coverage for residential block	1576.81

8	Proposed Ground Coverage for Commercial Zone	542.92
9	Permissible FAR @ 1.25 of plot area	53019.525
10	**Total Proposed FAR@0.51 of plot area**	**23003.7**
11	Proposed FAR in Hospital Building	16620.2
12	Proposed FAR in Residential Building	5347.58
13	Proposed FAR in Commercial Building	1035.92
14	**Total NON FAR**	**18108.76**
15	Mumty+Machine room+Services & Others	13125.28
16	Basement area for hospital	4983.48
17	**Built up Area (FAR+Non-FAR)**	**41112.46**
18	Total Open Area (Plot Area-Ground Coverage)	32248.29
19	**Proposed Green Area @19.73% of plot area**	8365.68

POPULATION DETAILS

Hospital	
No. of Beds(Patient)	350
OPD and Day Care	3000
Staff & servant	343
Population In Hospital	**3693**

Residential	
Dwelling Units	74
Population in residential units(@5 person per dwelling unit)	370
Visitors (@10% of population	37
Total Population in Residential Units	**407**

WATER CALCULATION

Details	**Water (KLD)**
Water requirement for domestic purpose	152
Wastewater to be generated from domestic use (@ 20% of consumptive losses)	**122**
Water requirement for Flushing Purpose	62
Wastewater to be generated from Flushing (@ 100% of flushing requirement)	**62**
Total waste water generated	**122+62 = 184**

PROVISION OF DUAL PLUMBING

- Water supply scheme has been designed as Dual Plumbing.
- Dual Plumbing refers to the system when the toilets and urinals are served by recycled water while the remaining fixtures are served by potable water.

- The co-existence of the two system requires extra caution to prevent un-authorized plumbing modifications that can lead to cross-connection between recycled water and potable water system.

WASTE GENERATION FOR THE PROJECT

S. No.	Category of Solid Waste	Waste Generation Rate	Total Population	Waste Generated (kg/day)
1	Residential Refuse (Residents+ Staff)	0.3 to 0.6 kg/cap/day	407	101.75
2	Institutional Refuse	0.05 to 0.2 kg/cap/day	3343	417.875
3	Bed	1.5 kg/bed	350	525
Total				1044.625
	Bio medical Waste generated is 25 % of the waste generated from the total waste from beds			
			131.25 kg/day	

ROAD DETAILS & PARKING CALCULATION

Internal Road - Internal roads of width 15 m have been provided in the proposed project site. The project also consists of 3 m wide walkway inside the premises.

Entry/exits provided in the Building Premises – Total of 8 entry and exit point has been provided in the project. This include entry and exits of EWS block, Residential block, Hospital Block(2 entry/exit), Mortuary block, GNM Hostel and GNM College.

As per NBC

4 wheeler parking required	
5 beds/ECS	(350/5) =**70 ECS**
4 wheeler parking provided	**125 ECS**
2 wheeler parking required	
2 ECS/100 sq.mt. FAR	(23003.7/100)= 230 ECS
2 ECS= 3 two wheelers	(230*3) = **690 two wheelers**
2 wheeler parking provided	**985 two wheelers**
Total parking required	**760 (both 2 and 4 wheelers)**
Total parking proposed	**1110 (both 2 and 4 wheelers)**

Number of trees provided

TOTAL NO. OF PALM TREES	240
TOTAL NO. OF ASHOKE TREES	347
TOTAL NO. OF CHAMPA TREES	99
TOTAL NO. OF GAUDICHUDI	47
TOTAL NO. OF GAUVA TREES	21
TOTAL NO. OF BOTTLE PALM	16
TREES FOR SCREENING AT EAST SIDE	
NO OF EUCLIPTUS TREES	116
NO OF ASHOKE TREES	119
TOTAL NO. TREE	**1005**

RWH PITS CALCULATION

S.No.	Type of Surface	Catchment Area (m^2)	Runoff Coefficient	Intensity of Rainfall (mm/hr)	Intensity of Rainfall (m/hr)	Runoff (m^3 /hr)
1.	Total Roof /Terrace Area	10167.33	0.8	11	0.011	89.47
2.	Green Area	8365.68	0.2	11	0.011	18.40
3.	Paved Area	23882.61	0.75	11	0.011	197.03
	Total Runoff (m^3 /hr)					304.91

S. No.	Diameter of the Pit	Depth of the Pit	Volume of the Pit	Runoff in 15 minutes	No. of pits required	No. of pits proposed
1.	3	3	21.2	76.23	3.6	4

The case was presented by the PP and their consultant in the 220th SEAC meeting dated 26/08/2015 wherein after deliberations, PP was asked to submit following informationôs and make a presentation before the committee:-

1. Source of water supply and necessary approval from competent authority.
2. Disposal of Hazardous, Bio-Medical, Municipal wastes with specific mentioning of infectious wastes.
3. Define OT scrub & Wash.
4. Elaborate 30 Kl water requirement for miscellaneous purpose.
5. MSW collection bins should be marked on layout map.

6. Resubmit water balance chart by bifurcating infectious and non-infectious water water and their treatment and disposal plan/scheme.
7. Disposal plan of ETP sludge.
8. Location of storage area should be marked on layout map for Hazardous, Bio-Medical, Municipal wastes.
9. Land for GNM has been shown in the site layout map as a part of the project but in other maps submitted in presentation, land for GNM is not shown as a part of the project. PP should submit proper justification on above with revised layout map.
10. Details scheme of plantation in and around the periphery of area. Details regarding compensatory plantation in lieu of 434 trees which are already uprooted.

The PP has submitted the above information and presented the query reply in the 264th SEAC meeting dated 12/01/2016 wherein after deliberations, PP was asked to submit response on following issues:-

1. PP has proposed that 30 KLD treated waste water will be utilized outside the premises for which necessary agreement with the concerned authority be submitted.
2. A common storage for Bio-medical, Hazardous and Municipal solid waste have been proposed by PP which is not acceptable and should be stored separately. PP was asked to submit revised plan for the above waste storage.

3. Details of waste generated for the project needs to be re-assessed as there are mistakes in calculation (Residential refuse).

4. A written commitment submitted by the PP that it is a standalone project and GNM is not a part of this project.

5. As per the permission given by the municipal corporation, 5 times trees are to be planted against the number of trees felled for which detailed plan is not submitted. PP was asked to submit necessary details of plantation.

The reply to the above queries was submitted by the PP vide letter no. 272 dated 22/03/2016 and the same was placed before the committee in this meeting. Committee after deliberations decided that the reply submitted by the PP is satisfactory and acceptable hence the case was recommended for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 152 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 1005 numbers of trees will be planted in the premises. 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. Installation of solar photovoltaic cells for lighting system for common areas should be provided.
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 as per the proposal.
11. A written commitment is submitted by the PP that GNM is not a part of this project
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.

[K. P. Nyati]	[Dr. U. R. Singh]	[Dr. Mohini Saxena]
Member	Member	Member

[Dr. Alok Mittal]	[Manohar K. Joshi]	[Dr. R. B. Lal]
Member	Member	Chairman