Minutes of the 280th meeting of the State Level Expert Appraisal Committee held on 18/02/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 280th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 18th February, 2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar. Following members attended the meeting:

1. Shri V. C. Soni, Vice Chairman, SEAC.
2. Shri R. J. Shah, Member, SEAC.
3. Dr. V. K. Jain, Member, SEAC.
4. Shri V. N. Patel, Member, SEAC.
5. Shri Hardik Shah, Secretary, SEAC.

The agenda of TOR/Scoping/Category 8 (a)/TOR & EC amendment cases was taken up. Total Twenty Three (23) cases including sixteen TOR/Scoping cases, three appraisal cases, EC three amendment cases and one TOR amendment case were taken up. The applicants made presentations on the activities to be carried out along with other details furnished in the Form-1, Prefeasibility report and Form-1A.

1.	Shaligram Lakeview	R.S.No.510,526,529,532, O.P. No.82/1, F.P.No.82/1, Draft T.P.S.No.63(Khoraj), Gandhinagar	EC amendment

The SEIAA, Gujarat has accorded environmental clearance to M/s Shrimate Infrastructure Pvt. Ltd. for the residential cum commercial building construction project at R.S.No.510, 526, 529, 532, O.P.No.82/1, F.P.No.82/1, Draft T.P.S.No.63, Vill: Khoraj, Dist:Gandhinagar vide order no. SEIAA/GUJ/EC/8(a)/219/2013 dated 22/07/2013 for the built up area of 72,443.49 m^2.

The project proponent in the name of M/s Shrimate Infrastructure LLP, vide their letter dated 13/04/2015 along with revised Form-I & Form-IA requested for amendment of Environmental Clearance order dated 22/07/2013. It was mentioned in the letter that as per the revised GDCR, they are able to get additional FSI and hence the built up area of the project will become 78,408.73 m^2 instead of 72,443.49 m^2 as per the Environmental Clearance granted vide order dated 22/07/2013.

The request for amendment in terms of proposed expansion was considered during meeting of SEAC held 28/07/2015. During the meeting held on 28/07/2015, it was presented that the built up area & number of units of the project are increasing because they can now purchase TDR (Transferable Development Right). Further it was noticed that the parking area proposed in the basement is more than the actual parking area available in the basement as per the project plans submitted by them. After detailed discussion, it was decided to further appraise the project only after submission of the following:

1. Realistic details on parking area provision for the project based on the actual parking area available in basement. Explore the possibility of increasing the parking area provision for the project and revised details on the same with complete back up calculation.
2. Permission from the concerned competent authority showing the availability of Transferable Development Right to the proposed project.
3. Certificate from a structural engineer stating that the existing foundation & design of the buildings are capable enough to bear the load of 12 storied structures.
4. Documentary evidences showing the change in project developers and NOC from M/s. Shrimate

Infrastructure Pvt. Ltd. for transferring the Environmental clearance granted for the project in the name of M/s Shrimate Infrastructure LLP.

5. Explore the possibility of reusing treated sewage for flushing purpose also by providing dual plumbing system.

Project proponent submitted the above mentioned details vide their letter dated 07/01/2016. It was presented that the basement area has increased and hence total parking area provision for the project will be 19,333.71 m^2 [14,248.22 m^2 in basement + 3,767.74 m^2 in hollow plinth + 1,317.75 m^2 as open surface parking] equivalent to 636 CPS against the NBC requirement of 515 CPS. They have requested to send the treated sewage into the nearby lake instead of using it for flushing purpose. They have submitted a certificate from a structural engineer stating that the existing foundation & design of the buildings are capable enough to bear the load of 12 storied structures. NOC from M/s. Shrimate Infrastructure Pvt. Ltd. for transferring the Environmental clearance in the name of M/s Shrimate Infrastructure LLP has also been submitted.

The previous and the revised project details which are tabulated below:

Description	Details as per EC granted.	Details of the project after proposed changes.
Name of the project	Shaligram Lake View	Shaligram Lake View
Name of the developer	M/s Shrimate Infrastructure Pvt. Ltd.	Shrimate Infrastructure LLP
Location address	R.S.No.510, 526, 529, 532, O.P.No.82/1, F.P.No.82/1, Draft T.P.S.No.63, Vill: Khoraj, Dist:Gandhinagar	R.S.No.510, 526, 529, 532, O.P.No.82/1, F.P.No.82/1, Draft T.P.S.No.63, Vill: Khoraj, Dist:Gandhinagar
Plot area (sq. m.)	20,651.0	20,651.0
Ground Coverage (sq. m.)	5,582.41	5,712.93
Built – up area (sq. m.)	72,443.49	78,408.93
FSI area (sq.m.)	45,579.59	47,914.62
Number of buildings	9 residential + 1 commercial	9 residential + 1 commercial
Number of Units	Total 498 units (396 residential units + 102 commercial units)	Total 515 units (396 residential units + 119 commercial units)
No. of floors	Residential buildings – basement + hollow plinth + 11 floors. Commercial building – hollow plinth + 6 floors.	Residential buildings – basement + hollow plinth + 12 floors. Commercial building – basement + ground floor + 4 floors.
Basement area (sq. m.)	12,070.43	12,575.31
Hollow plinth area (sq. m.)	3,934.58	4,167.33
Parking requirement as per NBC	498	515
Parking area provided (sq m) and number of CPS	18,875.47 (3,934.58 m^2 in hollow plinth + 12,070.43 m^2 in basement + 2,870.46 m^2 as open surface parking)	19,333.71(14,248.22 m^2 in basement + 3,767.74 m^2 in hollow plinth + 1,317.75 m^2 as open surface parking)
Water requirement (KL/day)	331.0	340.0
Waste water generation (KL/day) & mode of disposal	259.0 Sewage will be treated in the onsite STP and treated sewage will be reused for the gardening/ plantation purpose. Remaining quantity of treated sewage will be discharged into the drainage line of AUDA	261.0 It is proposed that the sewage will be treated in the onsite STP and treated sewage will be reused for the gardening/ plantation purpose. Remaining quantity of treated sewage will be discharged into the drainage line of AUDA
Municipal Solid waste	1,118.0	1,138.0

generation (kg/day)		
Total green belt area (sq.m.)	1,909.65	3,195.0
Tree covered area (sq. m.)	1,190.07	1,325.0
Lawn covered area(sq. m.)	719.58	1,870.6

During the meeting, the project proponent was asked not to send the treated sewage into the nearby lake and to reuse it for flushing purpose within premises. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Permission from the concerned competent authority showing the availability of Transferable Development Right to the proposed project.
2. Revised water balance details considering the reuse of treated sewage for flushing purpose as well.

2.	Star Ayodhya	B.No.59.P/2,60,61, O.P.No.27/1,28,29, F.P. No. 37,41,42, R.S.No.49/2,49/3, T.P.No.19, Parvat – Magob, Surat.	Appraisal case.

The project was taken up in the meeting of SEAC held on 28/10/2015. During the meeting held on 28/10/2015, the project proponent was suggested to provide STP for treatment of entire quantity of sewage to be generated during the operation phase of the project instead of providing STP for grey sewage. They were also suggested to increase the tree covered area. It was observed that the parking area proposed in basement is more than the actual parking area available in the basement. After detailed discussion, it was decided to further appraise the project only after submission of the following:

1. Proposal for providing STP for treatment of entire quantity of sewage to be generated during operation phase instead of providing STP for grey sewage and details of Sewage Treatment Plant with its capacity, size of each unit, retention time and its location on the plan. Measures proposed to avoid odour nuisance due to the STP in operation phase. Revised water balance details considering the reuse of treated sewage for various purposes within premises. STP sludge management plan. Design details & drawings of dual plumbing system.
2. Land possession documents showing ownership of the applicant in case of B.No.60 & F.P.No.41, copy of permission obtained for non agricultural use of B.No.60 & F.P.No.41 or a copy of documents showing the correspondences made in this regard and copy of agreement made between the land owners & developers (if any).
3. Details on ventilation, lighting arrangements and CO sensors to be provided in the basement.
4. Revised details on parking area provision based on the actual parking area available in the basement. (to see presentation that the same details are there)
5. Detailed green belt development plan including area of tree plantation, its demarcation on the map, number and types of trees and budget allocation thereof. Also provide the break-up of the greenbelt viz. the tree covered and lawn covered area within premises.
6. Details of fire fighting system including location of fire water tanks & capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms & automatic fire extinguishers, location of fire lift and fire retardant staircases, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site etc. Calculation and provision of minimum fire water requirement based on fire study as well as the availability of external fire fighting facility.

The project proponent submitted the above mentioned details vide their letter dated 13/01/2016.

The project was appraised based on the details submitted as well as facts presented before the committee.

It was presented that STP of 500 KL/day capacity will be provided. From the total water requirement of 410.0

KL/day, fresh water requirement of 171.5 KL/day will be met through water supply from SMC and remaining quantity of water requirement for gardening & flushing within the premises will be met through treated sewage. Remaining quantity of treated sewage will be discharged into the drainage line of SMC. They have submitted an order, dated 28/11/2015 from Deputy Collector, City Branch Surat, giving permission for sale of N.A land of Block No. 60 for commercial use in the name of M/s Star Worldwide, a partnership firm through its partners including the name of applicant. Plans showing arrangements of ventilation, lighting & CO sensors have been submitted by them. Total parking space of 53,630.88 m^2 including 15,382.32 m^2 as mechanical parking in 1st level basement will be provided. 2 nos. of underground water storage tanks each of 75 KL, overhead water tank of 35 KL, 8 nos. of DCP type (5 kg capacity) & 8 nos. of CO_2 type fire extinguishers (4.5 kg) on each floor, fire alarm with manual call point & sounders, automatic sprinkler system in basement, hose reel, fire hydrants etc. will be provided for firefighting purposes. After discussing the project in detail, it was decided to consider the project only after submission of the following:

1. Copy of permission obtained from the concerned authority for the proposed FSI.

3.	Shapers Buildcon	F.P.No.40+44, BL.No.14, T.P.S.No.75, Hanspura-Muthiya, Ahmedabad.	Appraisal case.

The project was taken up in the meeting of SEAC held on 19/08/2015. During the meeting held on 19/08/2015, it was noticed by the committee that the parking area requirement for commercial units was not calculated properly as per the provisions of NBC norms. They were also suggested to explore the possibility of increasing the parking area provision for the project. Further it was noticed that land possession documents submitted do not show the ownership of M/s Shapers Buildcon and hence the project proponent was asked to submit the documentary evidences showing the ownership of the applicant i.e M/s Shapers Buildcon. While discussing about the availability of water supply & drainage connection to the project, it was reported by the project proponent that the project site is covered under the T.P. scheme of AMC and the water supply as well as drainage connection will be available to the project at the time of getting B.U. permission. After detailed discussion it was decided to further appraise the project only after submission of the following:

1. Explore the possibility of increasing the parking area provision for the proposed project. Revised details on parking area provision for the project based on the actual parking area requirement for commercial & residential units of the project as per the NBC norms.
2. Details on break-up of the greenbelt in terms of the tree covered area, lawn covered area and the area covered by shrubs & bushes.
3. The details of the basic amenities and welfare facilities to be provided to the construction workers to ensure that they do not ruin the existing environment.
4. Documentary evidences showing ownership of the project site by M/s Shapers Buildcon or a copy of agreement made by M/s Shapers Buildcon with the land owners for development of the proposed project.
5. Status of availability of water supply, drainage connection & municipal solid waste collection facility to the proposed project with supporting documents.

Project proponent submitted the above mentioned details vide their letter dated 04/02/2016. They have submitted a copy of receipt obtained from the AMC against the charges paid by them. It was presented that they will provide parking space of 6,500 m^2 equivalent to 247 CPS which includes 4,768.81 m^2 in basement + 2,259.34 m^2 as open surface parking. Further it was presented that all the 111 residential units are duplex type bungalows which will have individual parking space within their own premises.

Details of the proposed project, as presented before the committee, tabulated below:

<table>
<tr><td>Sr. No.</td><td>Particulars</td><td>Details</td></tr>
<tr><td>1.</td><td>Proposal is for</td><td>New Project</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Residential cum Commercial Building Project</td></tr>
<tr><td>3.</td><td>Project / Activity No.
[8(a) or 8(b)]</td><td>Project /Activity No. 8(a)</td></tr>
<tr><td>4.</td><td>Name of the project</td><td>Residential cum Commercial Building Project</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Shapers Buildcon</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 200 Crores</td></tr>
<tr><td>7.</td><td>Whether construction work has been initiated at site? If yes, details thereof</td><td>No</td></tr>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 27,438.00
• FSI area (m^2): 32,473.50
• Non FSI area (m^2): 16,914.90
• Total BUA (m^2): 39,151.11
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>49,388.40</td><td>32,473.50</td></tr><tr><td>Ground Coverage, (m^2)</td><td>-</td><td>10,440.09</td></tr><tr><td>Common Plot Area, (m^2)</td><td>2,743.80</td><td>2,762.31</td></tr><tr><td>Max. building height, (m)</td><td>-</td><td>29.49</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings : 2 commercial buildings & 111 residential units.
• No. of Blocks : 2 commercial buildings & 111 residential units.
• Scope of buildings/blocks : 2 commercial buildings – Ground floor + 6 floors. 111 nos. of residential units of ground floor + 2 floors.
• No. of Residential Units : 111 duplex type bungalows.
• No. of commercial units: 174 shops
• Details of amenities if any : 1 society office.</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Total : 1188 Nos.</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day) : 56.3
• Source of water : Local water tankers
• Waste water generation quantity (KL/day) : 5.04
• Mode of disposal : Septic tank to soak pit
• Details of reuse of water, if any : No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day) : 114
• Source of water: AMC water supply system
• Waste water generation quantity (KL/day) : 87
• Mode of disposal : Domestic wastewater will be discharged into the AMC sewerage line.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>AMC water supply & drainage lines are available in the area.</td></tr>
<tr><td>14.</td><td>Solid waste</td><td>Construction Phase:</td></tr>
</table>

<table>
<tr>
<td></td>
<td>Management</td>
<td>
<table>
<tr><td>Description</td><td>Generation (kg/day)</td><td>Quantity to be reused (kg/day)</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Top Soil</td><td>7.60</td><td>100 % reuse</td><td>For garden development</td></tr>
<tr><td>Other excavated earth</td><td>24.2</td><td>50 % reuse for back filling the low lying areas</td><td>Send to the nearest collection point of AMC</td></tr>
<tr><td>Construction debris</td><td>82.5</td><td>30% reuse for internal roads & pavement development</td><td>Send to the nearest collection point of AMC</td></tr>
<tr><td>Steel scrap</td><td>3.6</td><td>30% reuse</td><td>Sell to Actual Users</td></tr>
<tr><td>Discarded packing materials</td><td>1.2</td><td>-</td><td>Sell to Actual Users</td></tr>
<tr><td colspan="4">Total solid waste will be (100 workers x 500 gm/person/) 50 kg/day & it will be disposed off at the nearest collection point of AMC.</td></tr>
</table>

Operation Phase:
<table>
<tr><td>Type of waste</td><td>Generation Quantity (Kg/day)</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc.

Wet waste -Waste vegetable and food</td><td>1700</td><td>Organic waste and Inorganic waste will be collected in separate buckets.</td><td>The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of AMC.</td></tr>
</table>
• Details of segregation if to be done: Collection of organic and inorganic waste will be in separate buckets.
• Capacity and no. of community bins to be placed within premises: 30 Bins with 80 litres volume each
• Landfill site where waste will be ultimately disposed by local authority: the nearest collection point of AMC.
</td>
</tr>
<tr>
<td>15.</td>
<td>Parking Details</td>
<td>
• Total parking area requirement for the project as per GDCR: 6,494.07 m^2
• Total number of CPS requirement for the project as per NBC : 198
• Total Parking area provided (m^2) & No. of CPS: 6,500.0 & 218 CPS
• Parking area provided in basement (m^2) & No. of CPS: 4,768.81 m^2 & CPS 149
• Parking area provided as open surface (m2) & No. of CPS: 2,259.34 m^2 & CPS 98.
</td>
</tr>
<tr>
<td>16.</td>
<td>Traffic Management</td>
<td>
• Width of adjacent public roads : 60.0 m wide TPS Road
• Number of Entry & Exit provided on approach road/s: One main entry/exit
</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td>and two other gates for entry /exit into basement.
• Width of Entry & Exit provided on approach road/s: 9.0 m & 4.5 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) : 3 m
• Width of all internal roads : 9.0 m & 7.5 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>The transformers and motors will be provided having minimum efficiency of 85%. Use of CFL or solar lights in the common area. Use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling. Rain water harvesting through ground water recharge.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply : by Torrent Power Limited
Maximum demand : 900 KW
Connected load : -
• Source : Torrent Power Limited
• Energy saving measures: The transformers and motors will be provided having minimum efficiency of 85%. Use of CFL or solar lights in the common area. Use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling.
• DG Sets : No.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fire extinguishers at each floor of commercial building, underground fire water storage tank of 50 KL & terrace fire water storage tank of 10 KL on both the commercial buildings.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area m^2</th><th>No. of staircase</th><th>Width of the staircase(m)</th><th>Travel distance (m)</th></tr>
<tr><td>A</td><td>G.F.+6</td><td>1107.96</td><td>2</td><td>1.52</td><td>25</td></tr>
<tr><td>B</td><td>G.F.+6</td><td>619.06</td><td>2</td><td>1.52</td><td>25</td></tr>
</table>
One staircase will be provided in each individual residential unit.</td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 50 m
• No. & dimensions of RWH tank(s):2 Nos. (15.0m x 6.0m x 12.0m & 16.0 m x 6 m x 12m)
• No. and depth of percolations wells: 7 Nos
• Details on Pre-treatment facilities: Filtration & oil & grease removal.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2):1,550.0
• Area covered by shrubs and bushes (m^2):--
• Lawn covered area (m^2):100.0
• Total Green Area (m^2):1,650.0
• Green Area % of plot area:6%
• No. of trees and species to be planted:412 trees of Asopalav, Neem, Gulmohar & other local species.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>Total Rs. 20 lacs for MSW management, sewage disposal, greenbelt development, rain water harvesting & ground water recharge etc.</td></tr>
<tr><td>24.</td><td>Proposed dust control measures during the construction</td><td>Water spraying, PUC compulsion for vehicles, covered shed for cement loading activity, covering all the loose material with tarpaulin during stacking & transportation etc.</td></tr>
</table>

	phase	
25.	Eco friendly building material usage details.	Use of Ready Mix Concrete (RMC).
26.	Details of basic amenities to be provided to construction workers.	Drinking water, sanitary facility, free of cost doctor service, all the required personal protective equipments etc.
27.	Documents related to land possession	Copies of 7/12 & N.A order submitted shows the N.A land for residential & commercial use in the name of Mr. Kiritkumar Dwarkadas Patel & others. Copy of partnership deed of DLH Developers has been submitted showing the name of land owners & applicant as partners of the company.

During the meeting, it was presented that instead of M/s Shapers Buildcon, which was a proprietary firm of the applicant Mr. Laxmanbhai H. Vekariya, now the project will be developed by M/s DLH Developers and the applicant is a partner of M/s DLH Developers. During the meeting, after detailed discussion, it was decided to consider the project only after submission of the following;

1. Revised Form I & Form IA with reference to the change in the name of project developer.

4.	Residential Building Construction Project by M/s Saffalya Infra LLP	F.P.No.141, R.S.no.471, T.P.S.No.42, Sola – Thaltej, Ahmedabad	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project
2.	Type of Project	Residential Building Construction Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Residential Building Construction Project
5.	Name of Developer	M/s Saffalya Infra LLP
6.	Estimated Project Cost (Rs. In Crores)	Rs . 100 Crore
7.	Whether construction work has been initiated at site? If yes, details thereof	No

<table>
<tr><td>8.</td><td>Project Details</td><td>
• Land / Plot Area (m^2): 7,830.0
• FSI area (m^2): 21,609.05
• Total BUA (m^2): 36,551.26
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area, m^2</td><td>21609.05 (including chargeable permissible FSI under TOZ)</td><td>21,609.05</td></tr>
<tr><td>Ground Coverage, m^2</td><td>-</td><td>3,679.19</td></tr>
<tr><td>Common Plot Area, m^2</td><td>783.0</td><td>783.94</td></tr>
<tr><td>Max. building height, m</td><td>30.0</td><td>29.89</td></tr>
</table>
</td></tr>
<tr><td>9.</td><td>Building Details</td><td>
• No. of Buildings: 5
• No. of Blocks: 9
• Scope of buildings/blocks: Basement +hollow plinth +7 floors.
• No. of Residential Units: -258
• Details of amenities if any: -
</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>2919 persons</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>
• Water requirement (KL/day): 46.1
• Source of water: Water tankers
• Waste water generation quantity (KL/day): 4.88
• Mode of disposal: Septic tank to soak pit
• Details of reuse of water, if any: No
</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>
• Fresh water requirement (KL/day): 213.0
• Source of water: AMC Water Supply
• Waste water generation quantity (KL/day): 168.0
• Mode of disposal: Sewage to be generated will be discharged into AMC sewerage line
</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>AMC water supply and AMC sewerage line will be available during the operation phase.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>
Construction Phase:
<table>
<tr><td>Description</td><td>Generation (kg/day)</td><td>Quantity to be reused (kg/day)</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Top Soil</td><td>200</td><td>100 % reuse</td><td>For garden development</td></tr>
<tr><td>Other excavated earth</td><td>760</td><td>80 % reuse for back filling & internal road development</td><td>Remaining will be send to the nearest collection point of AMC</td></tr>
<tr><td>Construction debris</td><td>80.5</td><td>30% reuse for development of internal road & pavement.</td><td>Remaining will be send to the nearest collection point of AMC</td></tr>
<tr><td>Steel scrap</td><td>4.0</td><td>30% reuse</td><td>Sell to Actual Users</td></tr>
<tr><td>Discarded packing materials</td><td>1.2</td><td>-</td><td>Sell to Actual Users</td></tr>
<tr><td colspan="4">Total Solid Waste shall (95 workers x 500 gm/person/) 47.5 kg/day and it will be collected in the bins to be provided within premies.</td></tr>
</table>
</td></tr>
</table>

		Operation Phase: <table><tr><th>Type of waste</th><th>Generation Quantity (Kg/day)</th><th>Mode of waste collection</th><th>Mode of Disposal / Reuse</th></tr><tr><td>Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc. Wet waste -Waste vegetable and food</td><td>1100</td><td>Organic waste and In organic waste will be collected in different buckets.</td><td>The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of AMC.</td></tr></table> • Details of segregation if to be done: collection of organic and inorganic waste will be in different buckets and it will be subsequently collected by AMC • Capacity and no. of community bins to be placed within No of Bins: 34; Volume of Bins: 80 Lit each for Residential • Landfill site where waste will be ultimately disposed by local authority: At the nearest MSW collection/dumping site of AMC.
15.	Parking Details	• Parking area requirement for the project as per GDCR: 4,418.55 m^2 • Parking area requirement for residential units as per GDCR: 4418.55 m^2 • Total number of CPS requirement for the project as per NBC : 172 • Total number of CPS requirement for the residential units as per NBC : 172 • Total parking area provided for the project as per GDCR & NBC: 6,690.26 m^2 & 215 CPS • Parking area provided in basement (m^2) & No. of ECS: 5,260.84 m^2 & 164 CPS • Parking area provided in hollow plinth (m^2) & No. of ECS: 1,429.42 m^2 & 51 CPS
16.	Traffic Management	• Width of adjacent public roads: 12 m wide TPS Road • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • Width of Entry & Exit provided on approach road/s: 7.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4m • Width of all internal roads: 7.5 m
17.	Details of Green Building measures proposed.	Use of transformers and motors having minimum efficiency of 85%, use of CFL or solar light in the common areas, use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling, rain water harvesting through ground water recharge etc.
18.	Energy Requirement, Source and Conservation	• Power supply: by Torrent Power Limited Maximum demand: 900 KW Connected load: - • Source : Torrent Power Limited • Energy saving measures: Use of transformers and motors having

<table>
<tr><td></td><td></td><td>minimum efficiency of 85%, use of CFL or solar light in the common areas, use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling.
• DG Sets: No
No. and capacity of the DG sets: NA quantity: NA</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fire extinguishers at each floor, underground fire water tank of 5 KL & terrace water tank of 20 KL on each block.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area m^2</th><th>No. of staircase /Lift</th><th>Width of the staircase(m)</th><th>Travel distance (m)</th></tr>
<tr><td>A + B</td><td>G.F.+7</td><td>595.40</td><td>2 /4</td><td>1.52</td><td><25</td></tr>
<tr><td>C+ D</td><td>G.F.+7</td><td>536.25</td><td>2 /4</td><td>1.52</td><td><25</td></tr>
<tr><td>E + F</td><td>G.F.+7</td><td>595.73</td><td>2 /4</td><td>1.52</td><td><25</td></tr>
<tr><td>G + H</td><td>G.F.+7</td><td>838.85</td><td>2 /4</td><td>1.52</td><td><25</td></tr>
<tr><td>I</td><td>G.F.+7</td><td>446.05</td><td>1/2</td><td>1.52</td><td><25</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table:
• No. & dimensions of RWH tank(s) : 2nos (15.0m x 6.0m x 12.0m)
• No. and depth of percolations wells : 2 nos & up to underground II and river (aquifer)
• Details on Pre-treatment facilities : Filtration & oil & grease removal.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) : 469
• Area covered by shrubs and bushes (m^2): 100
• Lawn covered area (m^2): ---
• Total Green Area (m^2): 569
• No. of trees and species to be planted: 118 trees of local species.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>(Please specify the activities and break up of budget allocation)
Total 18.7 lacs will be used for sewage disposal, MSW collection & disposal, rain water harvesting & ground water recharge, green belt development.</td></tr>
<tr><td>24.</td><td>Proposed dust control measures during the construction phase</td><td>All the loose material either stacked or transporte will be provided with suitable covering such as tarpaulin. Water sprinkling on roads & construction material except cement.</td></tr>
<tr><td>25.</td><td>Eco friendly building material usage details.</td><td>Use of Ready Mix Concrete (RMC) & flay ash paver blocks.</td></tr>
</table>

During the meeting, the project proponent was suggested to increase the parking area provision for the project. Further they were suggested to explore the possibility of using solar energy for the proposed project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Land possession documents showing the ownership of land by the applicant, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard and a copy of agreement made between the land owners & developers (if any).

2. Explore the possibility of increasing the parking area provision for the project and revised details on

parking area provision considering the same with back up calculation & parking plans.

3. Revised layout plan showing adequate margin all round the periphery for easy unobstructed movement of fire tender without reversing.

4. Details of the basic amenities and welfare facilities to be provided to the construction workers to ensure that they do not ruin the existing environment.

5. Details on use of solar energy in the form of solar lights, solar water heaters, solar panels etc.

5.	Building construction project by Gujarat Housing Board.	Block No: 180 paikee 21 & 180 paikee 23, Moje: Motamava, Dist: Rajkot	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project[SIA/GJ/NCP/884/2015]
2.	Type of Project	Residential project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Residential high rise Building Construction project under Mukhyamantri Gruh Yojana
5.	Name of Developer	Gujarat Housing Board.
6.	Estimated Project Cost (Rs. In Crores)	Rs. 178 Crore approx.
7.	Whether construction work has been initiated at site? If yes, details thereof	No
8.	Project Details	• Total land area (m^2): 29,531.76 • FSI area (m^2): 86,341.94 • Built-up Area in m^2 : 1,10,426.37
9.	Building Details	• No. of Buildings: 17 • No. of Blocks: 17 • Scope of buildings/blocks: Ground floor + 14 floors. • No.& size of Residential Units: 1164 units and • Details of amenities if any: Required Amenities will be provided
10.	No. of expected residents / users	4656 =(1164 x 4) residents
11.	Water & waste water details during construction phase	• Water requirement (KL/day): 14.0 • Source of water: Local water tankers • Waste water generation quantity (KL/day): 7.5 • Mode of disposal: Into septic tank / soak pit system. • Details of reuse of water, if any: No
12.	Water & waste water details during operation phase	• Fresh water requirement (KL/day): 639.92 • Source of water: RUDA water supply system. • Waste water generation quantity (KL/day): 505.248 • Mode of disposal: Into drainage line of RUDA.
13.	Status of water supply and drainage line	Available in the area.

<table>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table>
<tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Top Soil</td><td>5,755</td><td>5,755</td><td>Will be used for greenbelt development.</td></tr>
<tr><td>Other excavated earth</td><td>2,014</td><td>2,014</td><td>Will be reused for back filling, plinth filling & internal road development.</td></tr>
<tr><td>Construction debris</td><td>What so ever</td><td>What so ever</td><td>Will be refilled at low lying areas within premises.</td></tr>
<tr><td>Steel scrap</td><td colspan="3">Send to recycler</td></tr>
<tr><td>Discarded packing materials</td><td colspan="3">Cement bags, waste paper and cardboard packing material will be sold off to recyclers.</td></tr>
<tr><td colspan="4">Operation Phase:</td></tr>
<tr><td>Type of waste</td><td>Generation Quantity (Kg/day)</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td rowspan="2">Dry waste & Wet waste</td><td rowspan="2">2328 kg</td><td rowspan="2">Into separate bins having storage capacity 0.5 m^3</td><td>Sold to vendors</td></tr>
<tr><td>Final disposal into RUDA bins</td></tr>
</table>
• Details of segregation if to be done: yes
• Capacity and no. of community bins to be placed within premises: 34 nos. x 100 Liter bins + one container type MSW collector to be kept
• Final disposal by local authority: final disposal through RUDA Waste Management Authority.</td></tr>
<tr><td>15.</td><td>Parking Details Traffic Management</td><td>• Total parking area requirement for the project as per GDCR: 14,048.76 m^2.
• Total parking area requirement for residential units as per GDCR: 12,480.94 m^2
• Total parking area requirement for the commercial units as per GDCR: 1,567.825 m^2
• Total number of CPS requirement for the project as per NBC: 606
• Total number of CPS requirement for residential units as per NBC :582
• Total number of CPS requirement for the commercial units as per NBC :24
• Total Parking area provided (m^2) & No. of CPS:15,156.42 m^2 & 606 CPS
• Parking area provided as HP surface (m^2) & No. of CPS: 6,619.43</td></tr>
</table>

		m^2 & 236 CPS. • Parking area provided as open surface (m^2) & No. of CPS: 8,536.99 m^2 & 370 CPS.
16.	Traffic Management	• Width of adjacent public roads: 24 m and 18 m wide road • Number of Entry & Exit provided on approach road/s: Total two gates will be provided. • Width of Entry & Exit provided on approach road/s: 6m & 7.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3m • Width of all internal roads: 6.0 m
17.	Details of Green Building measures proposed.	Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 10 nos. of solar lighting, roof top thermal insulation etc.
18.	Energy Requirement, Source and Conservation	• Power supply: Maximum demand: 6000 KVA Connected load: --- Source: PGVCL • % of saving with calculations: ~20% by use of LED and star rated energy efficient electronic consumer durables • Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area • DG Sets: No. and capacity of the DG sets:2 × 100 KVA Fuel & its quantity: HSD, 10 litre/hr
19.	Fire and Life Safety Measures	• During Construction Phase: Provision of Personal Protective Equipment's (PPEs) and its usage shall be ensured and supervised, training on construction safety aspects, first aid room with first aid kit, doctor & ambulance service. • During operation phase: Fire extinguishers, hose reel, manually operated electric fire alarm system, underground static water storage tank-100 KL, terrace tank -50 KL etc.
20.	Details on staircase	2 nos. of staircases of 2.0 m width will be provided in each of the building block.
21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 20 m • No. & dimensions of RWH tank(s) : --- • No. and depth of percolations wells : 6 Nos and 15 m • Details on Pre-treatment facilities : oil and grease removal and filter
22.	Green area details	• Tree covered area (m^2) : 1,394.40 • Lawn covered area (m^2): 1,675.51m^2 • Total Green Area (m^2): 3,069.91 • Green Area % of plot area: 10% • No. of trees and species to be planted: 240 –number of trees of Limbdo, Pipal , Asopalav and Gulmohar
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.
24.	Dust control measures	Capital cost of Rs. 13.0 lacs and recurring cost of Rs. 10.0 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management etc.
25.	Details of ecofriendly	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use

	Building materials	of RMC, lead free paints etc.
26.	Details of basic amenities to be provided to construction workers.	Sanitation facilities & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.
27.	Documents related to land possession.	NA order & village form no. 7/12 submitted by them shows that the land is in the name of Executive Engineer of Gujarat Housing Board.

During the meeting, looking to the magnitude of the project & water crisis in the region, the project proponent was suggested to provide Sewage Treatment Plant for treatment of sewage to be generated during the operation phase and to reuse treated sewage within premises in order to reduce fresh water consumption. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Project plans showing building wise & floor wise total built up area, FSI area, Floor area tables & plot area statement of the project.
2. Explore the possibility of increasing the parking area provision for the project and revised details on parking area provision considering the same with back up calculation & parking plans.
3. Explore the possibility of providing STP for treatment of sewage to be generated during the operation phase of the project and to reuse treated sewage within premises for purposes like flushing, gardening etc. Details of the STP with size of each unit, its location on the plan and its adequacy. Measures proposed to prevent odor nuisance due to the STP operation. Provision of dual plumbing for reuse of treated sewage for flushing. STP sludge management plan. Details on budgetary allocation for the proposed STP & dual plumbing system.

6.	M/s. Hindva Dreams	Block No.-194, 198, 199, 201, 202, 203, 204, 205, 206, Sub Plot No.1 Industrial Sub Plot No 2 Commercial, Village:-Dhoran Pardi, Taluka:-Kamrej, Dist.: Surat	Screening & scoping.

This a proposed Industrial Park with 8 MLD CETP. Proposed industrial park & CETP falls in the project activity no. 7(c) & 7(h) respectively as per the Schedule annexed with the EIA Notification 2006.

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1	Aerial distance of nearest residential area	3 km
2	Project Status (New/ Expansion/Amendment)	New Project
3	Product Details	Proposed Industrial Park with 8 MLD CETP.
I	List of Products& By-Products	

Type of units.	% of type of units.	No of Plots / Unit
Water jet / Weaving	55%	107
Power Looms	10%	36
Embroidery	12%	17

		Food & Beverages 12% 39 Packaging 6% 20 Engineering 5% 21 100% 240
4	Total cost of Proposed Project (Rs. in Crores)	Rs. 88 Crore
5	Total Plot area (sq. meter)	2,13,386.0
6	Green belt area,/Tree Plantation area (sq. meter)	70,450.0
7	Water	
I	Source of Water Supply (GIDC, Bore well, Surface water etc.	Borewell
ii	Water consumption (KL/day)	(A) Domestic & Gardening: 0.17 & 0.28 MLD
		(B) Industrial: • Process : • Boiler: • Cooling: • Washings: • Others : Total (A+B)=8.1 MLD
Iii	Waste water generation (KL/day)	(A)Domestic: 0.13 MLD
		(B)Industrial: • Process : • Boiler: • Cooling: • Washings: • Others : Total (A+B)= 7.51 MLD
Iv	Treatment facility with capacity (ETP, CETP, MEE, STP etc).	8 MLD SBR based CETP
V	Mode of Disposal & final meeting point	Domestic: Domestic waste water to be generated will be treated in the proposed onsite ETP along with the industrial effluent.
		Industrial: After treatment 7.64 MLD treated waste water will be recycled back in the process.
Vi	Reuse/Recycle details (KL/day)	100 % Recycling for processing units
8	Air	
I	No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.	Only DG sets (4x 132 KVA) will be installed for emergency services
Ii	Fuel consumption	Diesel: 15 liter/hr

	Solid Fuel: MT/Day Gaseous Fuel: SCM/day Liquid fuel: KL/day	
Iii	APCM for flue gas	Adequate stack height for D.G set will be provided.
Iv	Process gas/Fugitive emission details i.e. Type of pollutant gases (SO_2, HCl, NH_3, Cl_2, NO_xetc.)	---
V	APCM for process gas/fugitive gaseous emission details	Adequate stack height for DG set will be installed.
9	Hazardous waste	

I

Sr. No.	Type/Name of Hazardous waste	Source of generation	Quantity	Disposal Method
1	CETP Sludge	CETP	7.5 MT/day	Collection, storage, transportation & send to GPCB approved TSDF site
2	Spent Carbon from Activated Carbon Filter	ACF	7.5 MT/annum	Collection, storage, transportation & send to GPCB approved TSDF site
3	Used Oil	Machinery & equipment	100 L/year	Collection, storage, transportation & disposal by selling to registered refiners

Quantity of discarded containers must be in MT/Annum.

Ii	Membership details of TSDF, CHWIF, Common MEE etc.	Membership procedure is under progress
Ii	Details of Non-Hazardous waste & its disposal (MSW and others)	---

During the meeting, after deliberation on various aspects, the terms of reference proposed by the project proponent were accepted and the project proponent was asked to include following additional TOR for the EIA study to be done covering 5 Km radius surrounding the periphery of the project :

1. Land Possession Documents of the proposed site and copy of permission obtained for non agricultural use i.e industrial purpose of the project site.

2. Project site specific details such as distance of the project site from the nearest (1) Village & the nearest habitaiton (2) Water Body: Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest shall be included. Give satellite image of 10 KM radius from the boundary of project premises.
3. The project proponent shall provide the exact distance of the project from the nearest river and/or canal.

4. Present land use pattern of the study area as well as the project area shall be given based on satellite imagery.
5. Layout plan of the industrial park. Provision of separate entry, exit and continuous unobstructed open path within the project area for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the layout.
6. Details on the number, type & activities of the member units to come up in the proposed industrial park.
7. Exact scope of the project should be given in detail. Need for the proposed CETP shall be justified in detail.
8. Exact source of water supply to the project during the operation phase. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the industral park. Permission obtained from the concerned authority for supply of water. Undertaking stating that no bore well shall be dug within the premises.
9. Characteristics of untreated and treated wastewater. A detailed effluent treat ability study vis-à-vis the adequacy and efficacy of the treatment facilities proposed for the wastewater to be generated along with adequacy and efficacy report. The characteristic on which treatability is based shall also be stated.
10. Explore use of Best Available Technology (BAT) incorporating latest features for the proposed CETP instead of providing conventional treatment units.
11. Details of the CETP units including its capacity, size of each unit, retention time and other technical parameters.
12. Techno-feasibility & adequacy for reuse / recycle of treated effluent by member units. Justifications of the economic viability of the treated effluent reuse / recycle. Details of the scheme for total recycle-reuse of the treated effluent. Details regarding the percentage of waste water to be reused / recycled by each member units.
13. Application wise break-up of treated effluent quantity to be recycled / reused in various applications and green belt development etc. Details about availability of sufficient open land for utilizing treated effluent for plantation / gardening. How it will be ensured that treated effluent won't flow outside the premises linked with storm water during high rainy days.
14. Detailed layout of effluent conveyance pipeline within the park along with distances and all technical specifications, line diagram and total capacity of the pipeline to convey effluent. Details of pumping stations, pumping capacity in each pumping station etc if any shall also be furnished.
15. List of the CETP members, their production capacity, effluent reuse / recycle capacity, effluent generation capacity, effluent characteristics and effluent quantity. Whether any future projections are envisaged for finalization of the CETP capacity and conveyance pipeline.
16. Undertaking that no dying and printing unit or process house shall be permitted as a member of the proposed CETP.
17. Details about the proposed inlet norms of the CETP. Give details of the mandatory treatment, if any required by the member units to achieve the inlet norms by each unit.
18. Specific monitoring plan to ascertain that all the CETP member units send their effluent [contracted

quantity] to the CETP and the effluent does not in any way find its way to other sources i.e. measures to eliminate by passing of the effluent.

19. Details of the pipeline maintenance program to avoid choking / overflow / leakage of the effluent conveyance pipeline and means to avoid the same.
20. Provision of flow meter at the outlet of the CETP; checks & balances to ensure that discharge quality and quantity never exceeds the prescribed limit.
21. Details of the monitoring plan of the member units to ensure compliance with the inlet norms of the CETP as well as to avoid shock loading in the system.
22. Justification / capacity of the project keeping in view the future effluent load from the additional member units.
23. Details of CETP management and maintenance of the CETP during operation phase including infrastructure, model of management, role of each stake holder, CETP effluent quality monitoring scheme etc.
24. Impact of the CETP installation and treated effluent conveyance & disposal system on the environment including the local hydrology, soil condition, floral and faunal bio-diversity of the region and the mitigation measures proposed.
25. Surface water quality and ground water quality in the study area.
26. Geological features and geo-hydrological status of the study area.
27. Details of emergency storage of effluent during the monsoon season.
28. Details of R&D to be initiated by the CETP management for effective and viable treatment of the effluent received.
29. Details of total power load required for the CETP as well as details of dedicated power back up / D.G.Sets to be provided to take care of power requirements during power supply failure, to ensure that treatment units operate uninterrupted.
30. CETP management manual covering various management aspects during the effluent collection, transportation, treatment and disposal aspects for best management practices. The member units shall abide by various clauses in this regard to check problems during the collection, transportation, treatment and reuse / recycle / disposal of the effluent.
31. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
32. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 5 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
33. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters. Locations of the monitoring

stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.

34. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modeling should be superimposed on satellite image/ geographical area map.
35. Quantity of fuel required in the proposed industrial park including requirement by individual units, its source and transportation. Fuel analysis to be provided (sulphur, ash content and heavy metals including Pb, Cr, As and Hg). A confirmed fuel linkage should be provided.
36. Specific details of (i) Details of the utilities required (ii) Flue gas emission rate from each utility (iii) Air Pollution Control Measures proposed to each of the utility along with its adequacy.
37. Impact of the project on local infrastructure of the area such as on road network due to transportation of fuel, products, raw materials etc. Whether any additional infrastructure would need to be constructed and the agency responsible for the same with time frame.
38. Details of flora and fauna duly authenticated should be provided. In case of any scheduled fauna, conservation plan should be provided.
39. Details of management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized.
40. Copy of membership certificate of Common Environmental Infrastructure like TSDF, if any taken, should be incorporated.
41. Details of measures proposed for the noise pollution abatement and its monitoring. Provisions to provide ear plugs / ear muffs to workers and to ensure its usage in high noise areas. Measures to ensure that the noise from the looms remains less than 80 dB(A). Undertaking to carry out Audiography of workers working near the looms, at least once in a year.
42. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
43. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided to the workers. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the

workers. Plan for periodic medical check up of the workers exposed. Details of work zone ambient air quality monitoring plan as per Gujarat Factories Rules.

44. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenario related to fire and explosion issues due to storage and use of fuel should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point in time. The risk contours should be plotted on the plant layout map clearly showing which of the activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site emergency plan should be provided.
45. Measures to guard against fire hazards including details of automatic fire detection and control system & detailed fire control plan showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc. should also be provided.
46. Provision to ensure sufficient water storage all the time for use during emergency situation.
47. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
48. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
49. Proposal for socio-economic development activities including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
50. A tabular chart for the issues raised and addressed during public hearing/consultation and commitment of the project proponent on the same should be provided. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
51. Plan for compliance of CETP guidelines issued by the CPCB.
52. Whether any litigation pending and / or any direction / order passed by any Court of Law against the company, if so, details thereof.
53. Details of scheme for surface as well as roof top rain water harvesting and ground water recharge with proper scientific calculations considering rainfall in the region, catchment area, land / soil characteristics, ground water recharge rate, duration of rain water harvesting etc. Details of provisions of pre-treatment of the rainwater in the case of surface run off is to be harvested. Location of recharge percolation wells on the layout plan.
54. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report (b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
55. Disciplinary policy of CETP for member units.

56. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions? Details of this system may be given.
57. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
58. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
59. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for CETP & Industrial estates/Park shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The draft EIA report shall be submitted to the Gujarat Pollution Control Board for conducting the public consultation process as per the provisions of the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

7.	Royal Textile Market	T.P.-35(Kumbhariya–Saroli–Saniya Hemad-Devadh), F.P.No.-272,Paikee Sub Plot No.1+2, BlockNo.131, Moje: Saroli, Ta: Choryasi, Dist: Surat.	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/33848/2015]
2.	Type of Project	Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Royal Textile Market
5.	Name of Developer	Shantai Reality India Ltd.,
6.	Estimated Project Cost (Rs. In Crores)	Rs. 50 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No

<table>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 10,761.0
• FSI area (m^2): 29,054.15
• Total BUA (m2) : 49,993.66
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>24,212.25</td><td>29,054.15</td></tr><tr><td>Ground Coverage (m^2)</td><td>5,380.50</td><td>5,282.42</td></tr><tr><td>Common Plot Area (m^2)</td><td>1,079.56</td><td>1,979.56</td></tr><tr><td>Max. building height (m)</td><td>45 m</td><td>34.08</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings: 1
• No. of Blocks: 1
• Scope of buildings/blocks: 2 level basement + ground floor + 5 floors.
• No. & size of Residential Units: --
• No. & type of Commercial Units: 434 Textile Houses
• Details of amenities if any: --</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Expected residents: --
Expected shop users: 1736
Expected visitors: 1000</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 14.0
• Source of water: Water tankers
• Waste water generation quantity (KL/day): 1.60
• Mode of disposal: Soak pit
• Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment.</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total water requirement (KL/day):97.50
• Fresh water requirement (KL/day): 57.0
• Source of water: Water supply from SUDA
• Waste water generation quantity (KL/day): 74.50
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SUDA.
• In case of STP provision, capacity of STP: Yes. Sewage Treatment Plant – 80 KL/day
• STP Technology: Ozonization Treatment
• Purposes for treated water utilization: Treated sewage will be utilized in gardening and toilet flushing
• Quantity of treated water to be reused: 1. Gardening (KL/day): 4.5 KL/Day
2. Flushing (KL/day): 36.0 KL/Day
• Provision of dual plumbing system (Yes/No): Yes
• Quantity and type (treated/untreated)of water to be discharged: Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SUDA.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Applied for connection of water supply line and drainage line in SUDA.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table><tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr><tr><td>Top Soil</td><td>539.78</td><td>539.78</td><td>Reuse for developing</td></tr></table></td></tr>
</table>

				garden area
		Other excavated earth	71,929.17	1,021.14 m^3 will be reused for back filling	Remaining quantity will be send to other project site in consultation with SMC
		Construction debris	525	250 m^3 will be reused as a filler up to plinth level.	Remaining will be reused in outer road development
		Steel scrap	20	--	Sold to local scrap vendors
		Discarded packing materials	12	--	Sold to local vendors

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	209.03	Blue colour bucket	Through door to door waste collection system of SUDA
Wet waste	138.8	Green colour bucket	Through door to door waste collection system of SUDA
STP Sludge	--	Bottom of the collection tank	Reused as manure for the Garden

- Details of segregation if to be done: Separate bins will be provided to collect dry and wet waste.
- Capacity and no. of community bins to be placed within premises: 1.0 m3
- Landfill site where waste will be ultimately disposed by local authority: Khajod Landfill Site of S.M.C

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 8,716.0 m^2 • Parking area requirement for Commercial units as per GDCR: 8,716.0 m^2 • Total number of CPS requirement for the project as per NBC : 116 • Number of CPS requirement for commercial units as per NBC: 116 • Total Parking area provided (m^2) & No. of CPS: 17,807.15 m^2 & 565 CPS • Parking area provided in basement (m^2) & No. of CPS: 17,120.10 m^2 & 535 CPS Parking area provided as open surface (m^2) & No. of CPS: 687.05 m^2 & 30 CPS
16.	Traffic Management	• Width of adjacent public roads: 24.0 m & 18 m wide roads. • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • Width of Entry & Exit provided on approach road/s: 10.27 m & 6.68 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5 m • Width of all internal roads: 6.0 m
17.	Details of Green Building measures proposed.	Use of fly ash based material, flush tank instead of direct flushing in toilets, foam type aerated coke, rain water harvesting, use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles in common areas, maximum use of natural light etc.
18.	Energy Requirement,	• Power supply Maximum demand: 2500 KVA

<table>
<tr><td></td><td>Source and Conservation</td><td>Connected load:---
Source: DGVCL
• Energy saving measures: Use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles on terrace floor, maximum use of natural light etc.
• DG Sets
No. and capacity of the DG sets: 1 x 125 KVA
Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & quantity 55 L/h in each</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system in entire building, manually operated electric fire alarm system, underground fire water storage tank (110 KL), terrace tank of 10 KL for each building, provision of pump: one electric & one diesel pump of capacity 1620 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm^2 at terrace level etc.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>No. of floor</th><th>Floor Area (m^2)</th><th>No. of staircase</th><th>Width of Staircase (m)</th><th>No. of Fire lift Proposed</th><th>No. of passenger Lift</th><th>No. of Goods Lift</th><th>Maximum Travel Distance up to the Staircase
< 30 m</th></tr>
<tr><td>G+5</td><td>5,282.42</td><td>04</td><td>2.01</td><td>03</td><td>07</td><td>04</td><td><30.0</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: about 27 m
• No. & dimensions of RWH tank(s) : 03 no. of RWH tanks;
size: 4m x 3m x 3m
size of Bore: 350 mm dia.
size of pipe: 150 mm dia.
• No. and depth of percolations wells: 03 nos. of percolating wells,
• Details on Pre-treatment facilities: A de-silting chamber will be provided to de-silt and remove floating material through bar screen</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) : 430.0
• Area covered by shrubs and bushes (m^2): --
• Lawn covered area (m^2): 649.56
• Total Green Area (m^2): 1,079.56
• Green Area % of plot area: 10.00 %
• No. of trees and species to be planted: 72 trees of Gulmohar, Neem tree, Coconut palm Asopalav etc.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>Capital cost of Rs. 91.70 lacs and recurring cost of Rs. 4.75 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management, sewage treatment & reuse etc.</td></tr>
<tr><td>24.</td><td>Proposed dust control measures.</td><td>Water sprinkling, covered shed for cement unloading activity, tarpaulin cover on excavated earth & construction material etc.</td></tr>
<tr><td>25.</td><td>Use of Eco – friendly building materials.</td><td>Use of fly ash bricks & aerated blocks for water partition, paving blocks for parking areas & walk ways, Portland Pozzolona Cement for RCC structure, plaster & flooring etc.</td></tr>
</table>

26.	Details on amenities to be provided to construction workers.	Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.
27.	Documents related to land possession.	Copy of index from sub registrar's office has been submitted which shows that the N.A land is in the name of M/s Shanti Realty India Ltd. Zoning certificate shows that the project site falls in the residential zone.

During the meeting, while discussing about the fire fighting measures, it was presented that flame proof electrical fittings will be provided. MCB will be provided, which will be tripped in case of any kind of adverse conditions. While asking by the committee, It was presented that traffic survey was carried out on a 24 m wide road from project site to Punagam-Saroli road which shows that the Level of Service in existing as well as in proposed scenario will remain the same as excellent "A". They have submitted a copy of notarized undertaking stating that any kind of manufacturing activity will not be allowed in the commercial units of the proposed project and any textile house will not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics. Typical floor plan presented during the meeting shows that the travel distance of the nearest staircase from the farthest corner of the floor and between the two consecutive staircases is less than 30 m. After discussing the various aspects of the project, it was decided to consider the project only after submission of the following:

1. Status of application made for obtaining permission for commercial use of the project site or documents showing that the proposed commercial activity is permissible at the project site.
2. Details on ventilation, lighting arrangements and CO sensors in basement
3. Details & plans showing the areas designated for loading / unloading of the goods & parking of vehicles carrying goods at ground level as well as in basement.
4. Perspective view of the building(s) to be constructed along with the materials used such as fibers, glass, etc. on the facades or external walls and the impacts thereof on the nearby buildings / residents due to heat island effect and emissions from the air conditioning systems.

8.	Building construction project by Mr. Ravibhai R. Laheri	At Block no. 32 Village: Velanja, Tal: Kamrej, Dist: Surat	Screeing & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/38428/2015]
2.	Type of Project	Residential Row House Project
3.	Project / Activity No. [8(a) or 8(b)]	Project / Activity No. 8(a)
4.	Name of Project	A Residential Row House Project
5.	Name of Developer	Ravibhai Rasikbhai Laheri
6.	Estimated Project Cost (Rs. in Crores)	6.33 Crores.
7.	Whether construction work initiated at site? If yes, details thereof	No

<table>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 64,095.0
• FSI area (m^2): 50,528.72
• Total BUA (m^2): 76,957.49

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>69,217.43</td><td>50,528.72</td></tr><tr><td>Ground Coverage (m^2)</td><td>23,072.48</td><td>19,022.15</td></tr><tr><td>Common Plot Area (m^2)</td><td>6,409.50</td><td>6,413.81</td></tr><tr><td>Max. building height (m)</td><td>---</td><td>9.0</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>Total 807 Row Houses of ground floor + 1.</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>4035 persons</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 25.0
• Source of water: Bore well water
• Waste water generation quantity (KL/day): 4.2
• Mode of disposal: Temporary septic tank & soak pit.
• Details of reuse of water, if any: Nil</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total water requirement (KL/day): 522.0
• Fresh water requirement (KL/day): 250.0
• Source of water: Water supply from local gram panchayat.
• Waste water generation quantity (KL/day): 453.0
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and remaining quantity of treated sewage will be discharged into the drainage line of local gram panchayat.
• In case of STP provision, capacity of STP: Yes. Sewage Treatment Plant – 500.0 m3
• STP Technology: Conventional with primary + secondary+ tertiary treatment.
• Purposes for treated water utilization: Treated sewage will be utilized in gardening and toilet flushing
• Quantity of treated water to be reused: 1. Gardening (KL/day): 254.0 2. Flushing (KL/day): 18.0
• Provision of dual plumbing system (Yes/No): Yes
• Quantity and type (treated/untreated) of sewage to be discharged: Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the drainage line of local gram panchayat.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Velanja Gram Panchayat will provide water supply & drainage line.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:<table><tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr><tr><td>Top Soil</td><td>10,422.3 m^3</td><td>2,000 m3</td><td>It will be reuse in tree plantation</td></tr></table></td></tr>
</table>

	8,442 m3	It will be supplied to village panchayat
Other excavated earth	1,04,223 m^3	60,000 m^3 It will be reused in internal road development 44,223 m^3 It will be supplied to the village Panchayat for making village road.
Construction debris	50 m^3	50 m^3 Construction debris will be reused in footing & foundation.
Steel scrap	0.5 MT	0.5 MT Used in column, footing and foundation
Discarded packing materials	Cement & Plastic Bags	Cement bag partly reuse in curing purpose & partly sale out in open market while plastic bag sale out to the registered recycler or vendor 100 % Reuse

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste & wet waste	1,614	Dustbin	Gram Panchayat

- Details of segregation if to be done: No
- Capacity and no. of community bins to be placed within premises: 30 bins having volume 0.25 m3
- Authority / agency involved in waste disposal : Gram Panchayat
- Landfill site where waste will be ultimately disposed by local authority: at the nearby MSW collection point of concerned local authority.

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 10,382.61 m^2 • Parking area requirement for residential units as per GDCR: 10,382.61 m^2 • Total number of CPS requirement for the project as per NBC :405 • Number of CPS requirement for residential units as per NBC: 405 • Total Parking area provided (m^2) & No. of ECS: 34,741.0 & 1085 CPS. • Parking area provided in basement (m^2) & No. of ECS: 34,741.0 & 1085 CPS.
16.	Traffic Management	• Width of adjacent / approach road: 18 m wide road on two sides. • No. of Entry and Exit: 2 gates will beprovided. • Width of Entry & Exit : 10.50 m & 7.50 m. • Width of internal roads: 6.0 m, 7.5 m, 9.0 m & 10.5 m. • Minimum width of open path all around the buildings for easy access of fire tender: 3 m
17.	Green building features including measures for conservation of water & energy, use of eco-friendly building materials, etc.	Use of autoclave aerated blocks & RMC, provision of aerated type taps, solar street lights, LED lighting fixtures & low voltage lighting in common areas, maximum use of natural ventilation, 5 star rated electrical appliances & inverters, provision of STP & reuse of treated sewage etc.
18.	Energy requirement, source and conservation	• Power supply- Maximum demand 1500 KVA Source: DGVCL • % of saving with calculation: 25% saving by using CFL/LED lightings, solar street lights & star rated energy efficient electronic appliances. • DG Set: No & capacity of D.G.Set: 6 x 50 KVA Fuel & it quantity: HSD-300 lit/hour
19.	Fire and Life Safety Measures	• Nearest Fire Station: Kosad Fire Station • Distance:10.89 km • Time: 15 minute • 2 x 75 KL underground water tank, 2 KL terrace water tank on each raw house.
20.	Details on staircase: One staircase will be provided in each raw house.	
21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 30 feet in monsoon • 45 feet in summer • No. & dimensions of RWH tank(s): --- • No. and depth of percolations wells: 17 nos. of percolating wells. • Details on Pre-treatment facilities: Not Applicable
22.	Green area details	• Tree covered area (m^2) : 1800 on periphery of compound wall & periphery of the COP. • Area covered by shrubs and bushes (m^2): --- • Lawn covered area (m^2): 4,200 (On COP) • Total Green Area (m^2): 6000 m^2 • Green Area % of plot area: 10 % • No. of trees to be planted: 360 trees of Neem, Pipal, Vad, Ashoka, Gulmohar.
23.	Dust control measures	Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.

24.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Allocation of fund of rupees 100 lacs for erection & commissioning of STP, for tree plantation & for rain water harvesting.
25.	Details of eco-friendly building materials	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc.
26.	Facilities to construction workers	Sanitation & drinking water facilities, welfare facilities as per Gujarat building & other construction workers rules & regulations
27.	Documents related to land possession	N.A order for residential use in the name of land owners & development agreement between the land owners & the applicant has been submitted.

During the meeting, after detailed discussion, it was decided to consider the project only after submission of the following:

1. Lay out plan showing basement line & approach ramps
2. Exact source of availability of water supply & drainage conneciton, permission from concerned authority for provision of water supply & drainage connection to the project during the operation phase.
3. Complete management plan of the treated sewage to be generated including activity wise break up of its utilization, feasibility of reusing treated sewage for gardening looking to the soil characteristics & ground water level in the area, mode of disposal along with the permission from the concerned authority in this regard, management plan of treated sewage in monsoon season etc.
4. Details & status of drainage network, pumping station, STP & its final disposal point in the area.

9.	Sun South Park	Block Number 472/A, 472/B & 472/C, F.P. No: 142/1, 142/2/1, TPS: 3, Bopal Tehsil: Daskroi, District : Ahmedabad	Screeing & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/38487/2015]
2.	Type of Project	Residential Cum Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Sun South Park
5.	Name of Developer	Shilp Construction
6.	Estimated Project Cost (Rs. In Crores)	60 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No

<table>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 7,661.0
• FSI area (m^2):20,675.73
• Total BUA (m^2):36,947.37

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>20,684.7</td><td>20,675.73</td></tr><tr><td>Ground Coverage (m^2)</td><td>NA</td><td>2,669.76</td></tr><tr><td>Common Plot Area (m^2)</td><td>767</td><td>767</td></tr><tr><td>Max. building height (m)</td><td>NA</td><td>45</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings:2
• No. of Blocks:5
• Scope of buildings/blocks: 2 blocks – Basement + ground floor (parking & shops) + 14 floors, 3 blocks – Basement + hollow plinth + 14 floors.
• No.& size of Residential Units: Total 240 flats. 100 Flats- 3BHK (Size 80.65 m2) , 112 Flats- 3BHK (Size 79.54 m2), 28 Flats- 3BHK (Size 80.0 m2),
• No. & type of Commercial Units: 46 shops
• Details of amenities if any: One Society Office</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>1172 occupants and 150 visitors</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 21.75
• Source of water: Water tankers
• Waste water generation quantity (KL/day): 5.73
• Mode of disposal: Soak pit
• Details of reuse of water, if any: No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 155.25
• Source of water: Water supply from AUDA
• Waste water generation quantity (KL/day): 121.75
• Mode of disposal: Into drainage line of AUDA</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Available at site</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table><tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr><tr><td>Top Soil</td><td>1100</td><td>1100</td><td>Development of landscape area</td></tr><tr><td>Other excavated earth</td><td>20,900</td><td>9,400 m^3 will be used for back filling and raising plinth level.</td><td>Balance earth will be used at other projects as per requirement.</td></tr><tr><td>Construction debris</td><td>300</td><td>180 m^3 will be used for development of internal road.</td><td>Balance debris will be handed over to local authority or fill in low laying areas</td></tr><tr><td>Steel scrap</td><td>12</td><td>0</td><td>Sold to vendors</td></tr><tr><td>Discarded packing materials</td><td>8</td><td>0</td><td>Sold to vendors</td></tr></table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>Operation Phase:
<table>
<tr><td>Type of waste</td><td>Generation Quantity (Kg/day)</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Dry waste</td><td>278.56</td><td>White bins</td><td>Sold to vendors</td></tr>
<tr><td>Wet waste</td><td>417.84</td><td>Green Bins</td><td>Municipal bins</td></tr>
</table>
• Details of segregation if to be done: yes
• Capacity and no. of community bins to be placed within premises: 15 kg and 10 number of community bins to be placed in common area
• Landfill site where waste will be ultimately disposed by local authority: Nearby municipal solid waste collection / dumping site of AUDA.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR:4,755.89 m^2
• Parking area requirement for residential units as per GDCR: 3,721.31m^2
• Parking area requirement for Commercial units as per GDCR: 1,034.58 m^2
• Total number of CPS requirement for the project as per NBC :162
• Number of CPS requirement for residential units as per NBC: 120
• Number of CPS requirement for commercial units as per NBC:42
• Total Parking area provided (m^2) & No. of CPS: 8,737.2 & 291 CPS
• Parking area provided in basement (m^2) & No. of CPS:6,154.80 & 192 CPS
• Parking area provided in hollow plinth (m^2) & No. of CPS:1,482.40 & 52 CPS
• Parking area provided as open surface (m^2) & No. of CPS: 1,100 & 47 CPS.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 18 m wide road.
• Number of Entry & Exit provided on approach road/s: 2 gates will be provided.
• Width of Entry & Exit provided on approach road/s: 6 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4.5 m
• Width of all internal roads: 6 m and 4.5 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of RMC & aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 8 numbers of solar lighting, roof-top thermal insulation, water meters, rain water harvesting & ground water recharge through 2 nos. of percolating wells etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 1500 KVA
Connected load: 1750 KVA
• Source: UGVCL
• % of saving with calculations: ~40% by use of LED, solar lights and star rated energy efficient electronic consumer durables
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area
• DG Sets:
No. and capacity of the DG sets:1 x 62.5 KVA
Fuel & its quantity: HSD, 12 litre/hr</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• During Construction Phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safety aspects, first aid room with first aid kit, doctor & ambulance service.
• During operation phase (Commercial): Fire extinguishers, hose reel,</td></tr>
</table>

		manually operated electric fire alarm system, down comer, automatic sprinkler system in basement, underground static water storage tank-200 KL capacity, terrace tank -50 KL capacity (total capacity), pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm2 at terrace level etc.

20. Details on staircase

Type & no. of buildings	No. of floors	Floor area m^2	No. of staircase	Width of the staircase (m)	Travel distance (m)
A	G/HP + 14	322.6	1	2.0	24
B	G/HP + 14	322.6	1	2.0	24
C	HP + 14	318.17	1	2.0	22
D	HP + 14	160.01	1	2.0	18
E	HP + 14	318.17	1	2.0	22

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 20 m • No. & dimensions of RWH tank(s) : 2 nos. and 2.5m X 2.0 m X 3.0 m • No. and depth of percolations wells : 2 nos and 15 m • Details on Pre-treatment facilities : oil and grease removal and filter
22.	Green area details	• Tree covered area (m^2) :250 • Area covered by shrubs and bushes (m^2):150 • Lawn covered area (m^2):367 • Total Green Area (m^2):767 • Green Area % of plot area: 10% • No. of trees and species to be planted: 115 number of trees and Limbdo, KaadoSiris, Jambu, Asopalav, DesiBadam and Gulmohar.
23.	Dust control measures	Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.
24.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Allocation of Rs.15.0 lacs & Rs.10 lacs as capital cost & recurring cost respectively has been made for EMP & EMS.
25.	Details of eco friendly building materials	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc.
26.	Details of amenities to be provided to construction workers.	Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.
27.	Documents related to land possession	Copy of index from Sub Registrar's office submitted by them shows that the N.A land for residential use is in the name of M/s Shilp Construction, a partnership firm.

During the meeting, after detailed discussion it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

10.	Shree Kuberji Textile World	F.P.No. 209/1, Block No. 270, T.P.S.No. 35, (Kumbharia-Saroli), Surat	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

<table>
<tr><td>S.No.</td><td>Particulars</td><td>Details</td></tr>
<tr><td>1.</td><td>Proposal is for</td><td>New Project[SIA/GJ/32701/2016]</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Commercial</td></tr>
<tr><td>3.</td><td>Project / Activity No. [8(a) or 8(b)]</td><td>8(a)</td></tr>
<tr><td>4.</td><td>Name of the project</td><td>Shree Kuberji Textile World</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Shree Kuberji Leisure Private Limited.</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>83.50 Crores</td></tr>
<tr><td>7.</td><td>Whether construction work has been initiated at site? If yes, details thereof</td><td>No.</td></tr>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 14,670.19
• FSI area (m^2): 58,130.99
• Total BUA (m^2): 87,169.50

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area</td><td>58,680.76 m^2</td><td>58,130.99 m^2</td></tr><tr><td>Ground Coverage</td><td>7,330.09 m^2</td><td>7,281.03 m^2</td></tr><tr><td>Common Plot Area</td><td>1,467.01 m^2</td><td>1,526.36 m^2</td></tr><tr><td>Max. building height</td><td>60.0 m</td><td>46.12 m</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No./type of Buildings: 01
• No. Blocks: 01
• Scope of buildings/blocks: 2 level basement + ground floor to 6th floors with their respective mezzanine floors + 7th & 8th floors.
• No. & size of Residential Units: NA.
• No. & type of Commercial Units: 1008 Shops., 42 Godowns
• Details of amenities if any: NA</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td><table><tr><td>Sr. No.</td><td>Users</td><td>Number of Users</td></tr><tr><td>1</td><td>Shops & Offices Staff</td><td>2016</td></tr><tr><td>2</td><td>Total Visitors</td><td>10785</td></tr></table></td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 13.0
• Source of water: Water tankers.
• Waste water generation quantity (KL/day): 2.4
• Mode of disposal: The sewage generated will be sent to temporary septic Tank and soak pits.
• Details of reuse of water, if any: ---</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total water requirement(KL/day): 259.0
• Fresh water requirement (KL/day): 94.0
• Source of water: Water supply from Surat Urban Development Authority (SUDA).
• Waste water generation quantity (KL/day): 215.0
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SUDA.
• In case of STP provision, capacity of STP: 250 KL/day
• STP Technology: STP comprising of primary + secondary + tertiary</td></tr>
</table>

<table>
<tr><td></td><td></td><td>treatment facilities.
• Purposes for treated sewage utilization: gardening & flushing.
• Quantity of treated water to be reused:1.Gardening (KL/day): 7.0
2. Flushing (KL/day) : 158.0
• Provision of dual plumbing system (Yes/No): Yes.
• Quantity and type (treated/untreated) of sewage to be discharged: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SUDA.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connection will be available from SUDA during the operation phase of the project.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table>
<tr><th></th><th>Generation (m^3)</th><th>Quantity to be reused (m^3)</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Top Soil</td><td>3,000</td><td>3,000</td><td>Landscaping development.</td></tr>
<tr><td>Other excavated earth</td><td>7,000</td><td>7,000</td><td>Levelling of the site, internal roads, etc.</td></tr>
<tr><td>Construction debris</td><td>600</td><td>-</td><td>Will used for pavement & plinth filling.</td></tr>
<tr><td>Steel scrap</td><td>120</td><td>-</td><td>Will be Sold to scrap dealer</td></tr>
<tr><td>Discarded packing materials</td><td>50</td><td>-</td><td>Will be Sold to recycler.</td></tr>
</table>
Operation Phase:
<table>
<tr><th>Type of waste</th><th>Generation Quantity (Kg/day)</th><th>Mode of waste collection</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Dry waste</td><td>2038.0</td><td>Will be Collected in Bins</td><td>Solid Waste collected will be disposed off into nearby sanitary landfill site of SUDA</td></tr>
<tr><td>Wet waste</td><td>1161.0</td><td>Will be Collected in Bins</td><td>-do-</td></tr>
</table>
• Details of segregation if to be done: Not proposed.
• Capacity and no. of community bins to be placed within premises: 70 Nos. 50 kg Each.
• Landfill site where waste will be ultimately disposed by local authority: Nearby sanitary landfill site of SUDA.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR: 29,065.5 m^2
• Parking area requirement for Commercial units as per GDCR:29,065.5 m^2
• Total number of CPS requirement for the project as per NBC: 1,069 Nos.
• Number of CPS requirement for commercial units as per NBC: 1,069 Nos.
• Total Parking area provided (m^2) & No. of CPS: 32,481.31 m^2 & 1111 Nos.
• Parking area provided in basement (m^2) & No. of CPS: 24,331.64 m^2 for</td></tr>
</table>

<table>
<tr><td></td><td></td><td>759 Nos.[1st Basement: 9,861.46 m^2 & 308 Nos. 1st Basement Mechanical :4,532.71 m^2 & 141 Nos., 2nd Basement 9,937.47 m^2 & 310 Nos.]
• Parking area provided as open surface (m^2) & No. of CPS: 2,092.41 m^2 & 90 Nos.
• Parking on 8th floor: 2,090.30 m^2 & 90 Nos.,
• Parking on Terrace floor: 3,966.98 m^2 & 172 Nos.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 60 m. & 24 m.
• Number of Entry & Exit provided on approach road/s: 2 gates will be provided.
• Width of Entry & Exit provided on approach road/s: 7 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 7 m
• Width of all internal roads: 7.5 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Wall panel fabrics with recycled content, low-VOC emitting and refurbished or bio-harvested renewable material content for flooring. Provision of local exhaust ventilation to areas where indoor air pollutant build-up could be a problem, on-site rainwater recharging systems for storm water control and non-potable water uses, formaldehyde free Medium Density Fibreboard (MDF), use of polyethylene plastic piping in lieu of PVC piping, built-in entry way mats with drop pans and adequate drains to catch dirt off shoes, green belt development (15.08% of total plot area), provision of onsite STP & reuse of treated sewage, solar panels etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 5500 KVA
Connected load: 5800 KVA
• Source: DGVCL (Dakshin Gujarat Vij Co. Limited)
• Energy saving measures: T5/T8 and CFL lighting in all internal common areas, equivalent size windows to get the sufficient day light.
• % of saving with calculations: 35% saving on energy
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: Yes

<table>
<tr><th>Section No.</th><th>Requirement</th><th>Compliance</th></tr>
<tr><td>7.2</td><td>Lighting controls occupancy/ time switch</td><td>Parking area lighting will be controlled through switch with alternate switching.</td></tr>
<tr><td>7.2.1.4</td><td>Exterior lighting to be photo sensor or time switch</td><td>External lighting will be controlled through timer.</td></tr>
<tr><td>7.3</td><td>Interior lighting power to be within specified limits</td><td>All light in common open area will be ceiling mounted. It illuminates the required area only.</td></tr>
<tr><td>7.4</td><td>Exterior lighting power to be within specified limits</td><td>All lights will be with bracket or arm, so no extra light will be cross boundary limit.</td></tr>
<tr><td>8.2.1.1</td><td>Maximum allowable power lose from transformer</td><td>Shall be used energy efficient transformers as per ECBC Norms.</td></tr>
<tr><td>8.2.2</td><td>Energy efficient motors</td><td>For the common area, all</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td></td><td>motor will be energy efficient as per ECBC.</td></tr>
<tr><td>8.2.3</td><td>Power factor be maintained between 0.95 and unity</td><td>We will use capacitor bank for common areas load to maintain power factor.</td></tr>
<tr><td>8.2.5</td><td>Power distribution system losses to be maintained less than 1%.</td><td>We will consider low watt loss type MCB in all distribution system.</td></tr>
</table>
• DG Sets:
No. and capacity of the DG sets: 2 x 125 KVA.
Fuel & its quantity: Diesel, 50 lit/hr in case of emergency only.
</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• Nearest fire station: Dumbhal Fire Station, Surat
Distance from the project site: approximate at 4 Km
Time required for a fire tender to reach the project site: 10 minutes.
• Details of Safety measures for the construction workers: Full body harness will be provided to all the workers working at Height. Safety net will also be provided to prevent the fall hazard. All construction workers will be provided appropriate PPEs like dust mask, ear plug, helmet, safety belt etc. and made to wear them during working hours.
• During the operation phase: Fire extinguishers (DCP & CO2 type), hose reel, fire hydrants, fire sprinklers automatic type in basement & all the floors of the building, underground fire water storage tank of 200 KL/day, overhead fire water tank of 30 KL/day, manual alarm call point etc.</td></tr>
<tr><td>20.</td><td>Details on staircase</td><td>
<table>
<tr><th>Type of block</th><th>Floor area (m^2)</th><th>Number of Stair cases</th><th>Width of Stair case in m</th><th>Distance of stair case from the farthest corner</th></tr>
<tr><td>One commercial</td><td>6,637.0</td><td>11</td><td>2.1</td><td><25 m</td></tr>
</table>
</td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 5.0 to 7.0 m
• No. & dimensions of RWH tank(s) : Nil
• No. and depth of percolations wells: 4 nos. & 40 m
• Details on Pre-treatment facilities: Sand Filter will be used to remove suspended pollutants from the rainwater. After filtration, water will be recharged using percolation pit, filled with pebbles or brick and river sand and covered with perforated concrete slabs. Depth of recharge pit will be designed according to water table of the area.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2): 663.74
• Area covered by shrubs and bushes (m^2): 0
• Lawn covered area (m^2): 1,548.99
• Total Green Area (m^2): 2,212.73
• Green Area % of plot area: 15.08 %
• No. of trees and species to be planted: 210 Trees of 14 local species</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan (Rs. in lacs)</td><td>Budgetary provisions for the sewage management system including STP & reuse of treated sewage, solid waste management, green belt development etc. are Rs. 69.81 lacs as capital cost & 18.30 lacs as recurring cost during the operation phase.</td></tr>
<tr><td>24.</td><td>Proposed dust control measures during the construction phase</td><td>Water sprinkling on loose top soil, all the construction materials shall be stored in covered structures/areas, cement bags will be separately stored under cover in bales, sand will be stacked under tarpaulin cover etc.</td></tr>
</table>

25.	Eco friendly building material usage details.	Eco-Friendly building construction materials like fly ash brick/AAC block, lead free paints, aluminum windows and bagasse based particle board in doors will be used.
26.	Basic amenities to be provided to construction workers.	Wash rooms, rest rooms, drinking water etc.
27.	Documents related to land possession	N.A order shows that the land for residential use is in the name of land owner and the land owner has given power of attorney to the applicant.

During the meeting, the project proponent presented that flame proof electrical fittings will be installed and also submitted details of the same. Details of mechanical parking submitted by them was discussed and they have also submitted typical floor plan showing that the travel distance of the nearest staircase from the farthest corner of the floor as well as between the two consecutive staircase is less than 25 m. Terrace floor plan showing installation of solar panels, plans showing fire fighting installations at each floor & in basements has also been submitted. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Copy of permission from Urban Development & Urban Housing Department, Gandhinagar for the proposed FSI of 3.9.
2. Realistic details on parking area provision based on the actual parking area available at the 8th floor & terrace floor along with the details of mechanical parking to be provided, basement height, operation & maintenance of mechanical parking etc.
3. Zoning certificate or revised N.A permission order for the project site showing the permissible use of the project site for commercial use.

11.	The Bungalows	Plot No. - 181/1, S.No:998, Opp. Zydus Cadila Building, Satellite Road, S.G.Highway, Ahmedabad	Screening & scoping /appraisal.

Details of the proposed project as presented before the committee is tabulated below:

	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/41143/2015]
2.	Type of Project	Residential
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	The Bungalows
5.	Name of Developer	E-City Projects Construction Pvt. Ltd.
6.	Estimated Project Cost (Rs. In Crores)	Approximately Rs 125 crores.
7.	Whether construction work has been initiated at site? If yes, details thereof	Construction work has not yet been started.

<table>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 6,686.0
• FSI area (m^2):26,522.98
• Total BUA (m2): 60,684.56

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>26,642.76</td><td>26,522.98</td></tr><tr><td>Ground Coverage (m^2)</td><td>---</td><td>3,417.42</td></tr><tr><td>Common Plot Area (m^2)</td><td>855.0</td><td>858.38</td></tr><tr><td>Max. building height (m)</td><td>45</td><td>45</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• Nos. of Buildings: 1
• No. of blocks: 2
• Nos. of residential flats: 70
• Scope of buildings/blocks: 2 level basement + ground floor + amenity floor + 15 floors.
• Details of amenities if any: Club, Steam/Sauna Room, Gymnasium, Yoga Room, Squash Court, Club Home Theatre, Children's Play Area & Swimming Pool.</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>At full occupancy, number of residents will be 350.</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 20
• Source of water: AMC Water Supply
• Waste water generation quantity (KL/day): 4.0
• Mode of disposal: AMC sewer
• Details of reuse of water, if any: ---</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day):- 88.0
• Source of water:- Water supply from Ahmedabad Municipal Corporation (AMC)
• Waste water generation quantity (KL/day): 62.0
• Mode of disposal: Sewage will be discharged through AMC drainage system.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connection will be provided by AMC during the operation phase after getting B.U permission.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>• Construction Phase:
About 20,000 cu.m of earth will be excavated as a part of the project. Of this, almost 10,000 cu.m will be reused for back filling within the premises. The remaining earth will be disposed for filling of low-lying areas outside the premises, as per AMC guidelines.
Municipal solid waste @ 50 kg/day will be generated (200 workers * 250 g/person/day). Garbage generated will be collected in a proper manner and adequate measures will be taken for its storage at source before its collection by AMC for its ultimate disposal.
In case of generation of debris during construction phase, it will be stored properly in an earmarked area and will be used for filling within the premises or will be disposed off as per prevailing guidelines of AMC.
• Operation Phase:
Municipal solid waste @ 175 kg/day will be generated (350 occupants * 500 g/person/day).
Details of segregation if to be done: No segregation proposed.
11 bins (80 L capacity, each) will be provided at various locations. The waste will be regularly emptied by AMC through designated contractor</td></tr>
</table>

		and disposed at sanitary landfill site.
15.	Parking Details	• Parking area requirement for the project as per GDCR: 5,304.6 m^2 • Parking area requirement for residential units as per GDCR: 5,304.6 m^2 • Total number of CPS requirement for the project as per NBC : 70 • Total number of CPS requirement for the residential units as per NBC : 70 • Total parking area provided for the project as per GDCR & NBC: 8,035.56 m^2 & 267 CPS • Parking area provided in basement (m^2) & No. of ECS: 5,237.98 m^2 & 164 CPS • Parking area provided in hollow plinth (m^2) & No. of ECS: 1,009.10 m^2 & 36 CPS • Parking area provided at amenities floor (m^2) & No. of ECS: 780.13 m^2 & 24 CPS • Parking area provided as open surface parking (m^2) & No. of ECS: 1,008.35 m^2 & 43 CPS.
16.	Traffic Management	• Width of adjacent public roads: 12 m & 40 m wide TPS Roads • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • Width of Entry & Exit provided on approach road/s: 4.4 m & 6 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5 m • Width of all internal roads: 6 m & 8 m. • Traffic Study carried out for the road in front of premises during peak hours of morning (8 to 11 AM) & evening (5 to 8 PM). The PCU/hour worked out for the 10 m wide one-way road is 1371 and that for the 12 m wide two-way road is 350. As per IRC 86-1983 capacity in PCU/hr is as follows: For 10m wide one-way road: 2400 For 12m wide two-way road: 1500 • The existing road is adequate to take care of additional traffic due to the proposed residential project, considering movement of 350 cars at a time, which is the maximum.
17.	Details of Green Building measures proposed.	Fly ash paver blocks for pavements/walkways, Most of the carpentry structures will be made up of processed engineering wood/ particle board instead of wood, aluminum window frame & marble door frame instead of wood, PVC electrical boards, use of RMC, maximum Use of cement concrete containing 25 % fly ash in it as per IS Code provisions.
18.	Energy Requirement, Source and Conservation	• Power supply: From Torrent Power Limited • Maximum demand: 75 kW during construction phase and for operation phase it will be 1210.82 kW • D.G.Sets: No. and capacity of the DG sets: 1 × 500 kVa Fuel & its quantity: LDO: 100 Lit/hr at full load.
19.	Fire and Life Safety Measures	Construction Phase: Personal Protective Equipments like earplugs, dust masks, safety shoes, helmets, hand gloves etc., all workers will be trained to use welding shields and follow safer practices, provision related to first aid, all electrical fittings/equipments will meet the relevant IS standards, "H" frame scaffolds & ladders made of mild steel, completely concealed copper wiring etc.
20.	Details on staircase:	--

21.	Rain Water Harvesting (RWH)	• No. and depth of percolations wells : 2 nos • Details on Pre-treatment facilities : Filtration & oil & grease removal.
22.	Green area details	• Tree covered area (m^2) : 350.0 • Area covered by shrubs and bushes (m^2): --- • Lawn covered area (m^2): 680.0 • Total Green Area (m^2): 1,030.0 • No. of trees and species to be planted: 100 trees of local species like Neem, Acacia, Gulmohar, Peltoforum, Amaltas.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Rs. 200 lacs. for EMP during the operation & construction phase of the project.
24.	Proposed dust control measures during the construction phase	Temporary windshield barriers, regular water sprinkling, tarpaulin sheet covers will be used on the material during the transportation, uniform piling of sand and proper storage to avoid dusting etc.
25.	Eco friendly building material usage details.	Fly ash paver blocks for pavements/walkways, Most of the carpentry structures will be made up of processed engineering wood/ particle board instead of wood, aluminum window frame & marble door frame instead of wood, PVC electrical boards, use of RMC, maximum Use of cement concrete containing 25 % fly ash in it as per IS Code provisions.
26.	Details of basic amenities to be provided to construction workers.	Sanitation facilities, drinking water, municipal solid waste collection facility, first aid, training related to safe practices etc.

During the meeting, the project proponent was suggested to provide Sewage Treatment Plant for treatment of sewage to be generated during the operation phase of the project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Land possession documents showing ownership of land by the applicant/ project proponent, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard and a copy of agreement made between the land owners & developers (if any).

2. Details of fire fighting system including location of fire water tanks & capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms & automatic fire extinguishers, location of fire lift and fire retardant staircases, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site etc. Calculation and provision of minimum fire water requirement based on fire study as well as the availability of external fire fighting facility.

3. Details of the exits and staircases on each floor for evacuation from the top level to the street level along with the distances between two such staircases in each building. Provision of two staircases to open at ground level from the highest point of building [with access from each floor], in each building having floor area more than 500 m2 on each floor.

4. Proposal for providing STP for treatment of sewage to be generated during the operation phase. Details of the Sewage Treatment Plant including its capacity, size of each unit, retention time, other technical

parameters etc. along with the budget allocation for its installation, operation & maintenance. Quality of treated sewage and application wise break-up of treated sewage quantity to be recycled / reused in flushing & green belt development, its location on the layout plan, STP sludge management plan etc.

5. Revised water balance details considering the reuse of treated sewage for purposes like flushing, gardening etc. within premises.

6. Realistic details on parking area provision based on the actual area available for parking as open surface parking & in basement.

12	Satkar Premium	Survey No. 209 + 210, F.P.No. 28, T.P. S. No. 97, Village: Naroda, Taluka: Asarwa, District: Ahmedabad.	Screening & scoping /appraisal.

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/42051/2015]
2.	Type of Project	Residential & commercial project.
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the Project	Satkar Premium
5.	Name of Project Proponent	M/s. Swati Associates
6.	Estimated Project Cost (Rs. In Crores)	42 Crore
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction work has been initiated at site.
8.	Project Details	• Land / Plot Area (m^2):- 9,410.0 • FSI area (m^2):- 24,992.6 • Total BUA (m^2):- 37,280.4
9.	Building Details	• No. of Buildings :- 7 • No. of Blocks :- 7 • Scope of Buildings/Blocks:- 1 block - Ground floor + 5 floors, 6 blocks – ground floor (parking & shops) + 7 floors. • No. & size of Residential Units: Total 168 Flats. 3 BHK Flats :- 112 Flats – Size: approx. 114 m2 floor area. 4 BHK Flats :- 56 Flats – Size: approx. 114 - 121 m2 floor area • No. & Type of Commercial Units:- Total 77 Units (24 Shops & 53 Offices) • Details of Amenities if any:- None
10.	No. of expected residents / users	Fixed population considered for the project :- 1,071 Persons Floating population considered for the project: 1,428 Persons/day

	Permissible	Proposed
FSI Area (m^2)	25,407.57	24,992.6
Ground Coverage (m^2)	Not Applicable	3,894.0
Common Plot Area (m^2)	941	948.9
Max. Building Height (m)	30	24.85

<table>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day):- 15
• Source of water:- Local water tanker suppliers
• Waste water generation quantity (KL/day):- 4
• Mode of disposal:- Septic tank / soak pit system
• Details of reuse of water, if any:- None</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day):- 145.0
• Source of water:- Water supply from Ahmedabad Municipal Corporation (AMC)
• Waste water generation quantity (KL/day): 112.0
• Mode of disposal: Sewage will be discharged through AMC drainage system.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>The existing water supply & drainage connection is adjacent to the project site. Water supply & drainage connection will be available to the project after getting the B.U. permission.</td></tr>
<tr><td>14.</td><td>Solid Waste Management</td><td>Construction Phase:

<table>
<tr><th></th><th>Generation</th><th>Quantity to be reused</th><th>Mode of Disposal/Reuse</th></tr>
<tr><td>Top Soil</td><td>4,800 m^3</td><td>4,800 m^3</td><td>Development of greenbelt & levelling of low lying areas</td></tr>
<tr><td>Other Excavated Earth</td><td>19,200 m^3</td><td>19,200 m^3</td><td>Levelling of low lying areas, plinth filling and development of green belt area at proposed site itself.</td></tr>
<tr><td>Construction Debris</td><td>370 m^3</td><td>370 m^3</td><td>Levelling roads, pavements, plot filling, plinth filling etc.</td></tr>
<tr><td>Steel Scrap</td><td>2.5 MT</td><td>- -</td><td>To be sold to scarp dealer.</td></tr>
<tr><td>Discarded packing Materials/ Bags</td><td>90,000 Bags</td><td>- -</td><td>To be sold to authorized vendor.</td></tr>
</table>

Operation Phase:

<table>
<tr><th>Type of waste</th><th>Generation Quantity (kg/day)</th><th>Mode of waste collection</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Dry waste

Wet waste</td><td>490 kg/day</td><td>31 Nos. of bins of 80 litre capacity will be provided for collection of waste.</td><td>Will be regularly collected by AMC for final disposal</td></tr>
</table>
• Details of segregation if to be done: Not to be done
• Capacity and no. of community bins to be placed within premises:
• Total 31 Nos. – each of 80 litre capacity
• Landfill site where waste will be ultimately disposed by local authority: at the nearest MSW collection / dumping site of AMC.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR: 6,110.39 m^2
• Parking area requirement for residential units as per GDCR: 4,257.27 m^2
• Parking area requirement for commercial units as per GDCR: 1,853.12 m^2</td></tr>
</table>

		• Total number of CPS requirement for the project as per NBC: 245 CPS • Number of CPS requirement for residential units as per NBC: 168 CPS • Number of CPS requirement for commercial units as per NBC: 77 CPS • Total parking area provided (m^2) & No. of ECS: 9,061.32 m^2 & 304 CPS • Parking area provided in basement (m^2) & No. of ECS: 6,382.86 m^2 & 200 CPS • Parking area provided in hollow plinth (m^2) & No. of ECS: 1,708.97 m^2 & 61 CPS • Parking area provided as open surface (m^2) & No. of ECS: 362.71 m^2 & 16 CPS • Parking area provided (at any other place-specify) (m^2) & No. of ECS: 606.78 m^2 (common plot area) & 27 CPS.
16.	Traffic Management	• Width of adjacent public roads: 18 m wide T.P.S. road in East direction of the project site • Number of Entry & Exit provided on approach road/s: Two gates, including one for basement entry, will be provided. • Width of Entry & Exit provided on approach road/s: 7.5 m & 6 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): At least 3 m • Width of all internal roads: 7.5 m.
17.	Details of Green Building measures proposed.	Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, solar lights in common sunlit areas, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash, PVC electrical boards, aluminium window frame & marble door frame instead of wood, rainwater harvesting by recharging the ground water table through 3 percolation wells, maximize the use of light colours in the building envelope - to reduce heat absorption and associated cooling requirements etc.
18.	Energy Requirement, Source and Conservation	• Power supply: Maximum demand: During Construction: 50 kW During Operation: 1.5 MW • Source: M/s. Torrent Power Limited (TPL) • Energy saving by Non-conventional Methods: Use of solar lighting in common sunlit areas • Energy saving measures: Use of solar lighting in common sunlit areas, maximum use of LED lights in each block, use of variable frequency drives motors to optimize power consumption, the individual building block has been oriented so as to have maximum natural daylight as well as ventilation, use of building material having lower U-value and the insulating material having higher R-value to have optimum energy performance, maximize the use of light and silent colours in the building envelope so that UV absorption is reduced and associated cooling requirements are minimized. • D.G. Sets: Not proposed.
19.	Fire and Life Safety Measures	• During the operation phase: Fire extinguishers, fire hydrant system, hose reels, down comers, manual alarm system will be provided. One underground water storage tank having 150 KL capacity & overhead tanks of 28 KL capacity on each individual block. • Nearest fire station is Jasodanagar-Maninagar fire station approx. (1.4 km).Time required for the fire tender to reach at the project site is 5-10 minutes.

<table>
<tr><td></td><td></td><td>• During the construction phase: Fire extinguishers in common areas, personal protective equipments like earplugs, dust masks, safety shoes, helmets, hand gloves, etc will be provided to all workers, all workers will be trained to use welding shields and follow safer practices, provision of first aid facilities & related training to the construction workers, maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition, “H” frame scaffolds & ladders made of mild steel, completely concealed copper wiring, all electrical fittings / equipments used will meet the relevant IS standards etc.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Type & No. of Buildings</th><th>No. of Floors</th><th>Floor Area</th><th>No. of Staircase</th><th>Width of the Staircase</th><th>Travel Distance</th></tr>
<tr><td>A</td><td>Ground Floor + 5 Floors</td><td>625.84 m^2</td><td>2</td><td>1.50 m</td><td>27.5 m</td></tr>
<tr><td>B, C, F, G</td><td>S.P. / H. P. + 7 Floors</td><td>454.32 m^2</td><td>1</td><td>1.52 m</td><td>16 m</td></tr>
<tr><td>D</td><td>H. P. + 7 Floors</td><td>452.68 m^2</td><td>1</td><td>1.52 m</td><td>19.5 m</td></tr>
<tr><td>E</td><td>H. P. + 7 Floors</td><td>485.74 m^2</td><td>1</td><td>1.52 m</td><td>21 m</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• No. and depth of percolations wells : 3 Nos., 40 m depth
• Details on Pre-treatment facilities: Before recharging rain water, suitable arrangements of filtering (preferably sand filtration media) will be provided. Gratings at mouth of each drainpipe will be provided on terraces to trap leaves, debris and floating materials. Filter media will be cleaned before every monsoon season. First rain separator will be provided to flush off first rains. During rainy season, the whole system (roof catchment, pipes, screens, first flush and filters) will be checked before and after each rain and preferably cleaned after every dry period exceeding a month.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) : 276.0
• Area covered by shrubs and bushes (m^2): 537.0
• Lawn covered area (m^2): 342.0
• Total Green Area (m^2): 1,155
• Green Area % of plot area: 12.3 %
• No. of trees and species to be planted: 92 trees of Asopalav, Gulmohar, Jamun, Chickoo etc. will be preferred.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan (Rs. in lacs)</td><td>Budgetary allocation of Rs. 5 lacs & Rs. 8 lacs has been proposed for Environmental Management Plan during the construction phase & operation phase respectively.</td></tr>
<tr><td>24.</td><td>Dust control measures</td><td>Temporary windshield barriers, regular water sprinkling, tarpaulin sheet cover on the material during the transportation, maximum use of Ready Mix Concrete (RMC), uniform piling of sand and proper storage to avoid dusting.</td></tr>
<tr><td>25.</td><td>Eco friendly building materials</td><td>Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash.</td></tr>
<tr><td>26.</td><td>Facilities to be provided to the construction workers</td><td>Sanitation facilities, drinking water, municipal solid waste collection facility etc.</td></tr>
</table>

27.	Documents related to land possession.	Village form no. 7/12 submitted by them shows that the land for residential & commercial use is in the name of M/s Swati Associates through its partners including the name of the applicant.

During the meeting, when suggested by the committee, the project proponent was agreed to increase the parking area provision by providing additional parking as mechanical parking. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Revised details with increased parking area provision considering the proposed mechanical parking along with the details on mechanical parking, its maintenance & operations, provision of adequate basement height etc.

13	Swagat Agacia	S. No.162/2,410/2,410/3,410/4, F.P.No.21/2, 133,134,135 at T.P.S.No.7, Sargasan, Ta & Dist: Gandhinagar.	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/42737/2015]
2.	Type of Project	Residential project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Swagat Agacia
5.	Name of Developer	M/s. Swagat Infrastructure Pvt Ltd.
6.	Estimated Project Cost (Rs. In Crores)	Rs. 31 Crore approx.
7.	Whether construction work has been initiated at site? If yes, details thereof	No
8.	Project Details	• Total land area (m^2): 8,000.0 • FSI area (m^2):17,939.84 • Total BUA (m^2): 32,046.57
9.	Building Details	• No. of Buildings: 4 • No. of Blocks: 4 • Scope of buildings/blocks: 3 buildings - 2 level Basement + Hollow Plinth + Ground floor + 11 floors. 1 building - 2 level Basement + Hollow Plinth + Ground floor + 10 floors. • No.& size of Residential Units: 140 units • No. & size of commercial units: --- • Details of amenities if any: Required Amenities will be provided
10.	No. of expected residents / users	656 residents
11.	Water & waste water details during construction	• Water requirement (KL/day): 9.05 • Source of water: Local water tankers • Waste water generation quantity (KL/day): 3.0 • Mode of disposal: Into septic tank / soak pit system.

	Permissible	Proposed
FSI Area (m^2)	18,000	17,939.84
Ground Coverage (m^2)	NA	1,778.28
Common Plot Area (m^2)	800	1566.47
Max. building height (m)	NA	51.73

<table>
<tr><td></td><td>phase</td><td>• Details of reuse of water, if any: No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 89.0
• Source of water: GUDA water supply system.
• Waste water generation quantity (KL/day):70.0
• Mode of disposal: Into drainage line of GUDA.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Available at site</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table>
<tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Top Soil</td><td>8,252</td><td>8,252</td><td>Will be used for greenbelt development.</td></tr>
<tr><td>Other excavated earth</td><td>20,511</td><td>20,511</td><td>Will be reused for back filling and levelling of low lying areas and balance earth will be used in other projects in the vicinity.</td></tr>
<tr><td>Construction debris</td><td>What so ever</td><td>What so ever</td><td>Will be refilled at low lying areas within premises.</td></tr>
<tr><td>Steel scrap</td><td colspan="3">Send to recycler</td></tr>
<tr><td>Discarded packing materials</td><td colspan="3">Cement bags, waste paper and cardboard packing material will be sold off to recyclers.</td></tr>
<tr><td colspan="4">Operation Phase:</td></tr>
<tr><td>Type of waste</td><td>Generation Quantity (Kg/day)</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td rowspan="2">Dry waste & Wet waste</td><td rowspan="2">328 kg</td><td rowspan="2">Into separate bins having storage capacity 0.5 m^3</td><td>Sold to vendors</td></tr>
<tr><td>Final disposal into GUDA bins</td></tr>
</table>
• Details of segregation if to be done: yes
• Capacity and no. of community bins to be placed within premises: total 8 Nos. of bins with 80 Liter capacity will be provided within premises.
• Landfill site where waste will be ultimately disposed by local authority: Final disposal through GUDA Waste Management Authority.</td></tr>
<tr><td>15.</td><td>Parking Details Traffic Management</td><td>• Total parking area requirement for the project as per GDCR: 1,794 m2
• Total number of CPS requirement for the project as per NBC :140
• Total Parking area provided (m^2) & No. of CPS: 9,617.2 m^2 & 295 CPS
• Parking area provided in basement (m^2) & No. of CPS:7,667.46 m^2 & 239 CPS
• Parking area provided as HP surface (m^2) & No. of CPS: 1,577.32 m^2 &</td></tr>
</table>

<table>
<tr><td></td><td></td><td>56 CPS.
• Parking area provided as open surface (m^2) & No. of CPS: 372.42 m^2 & 16 CPS.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 12 m and 18 m wide road
• Number of Entry & Exit provided on approach road/s: Total two gates will be provided.
• Width of Entry & Exit provided on approach road/s: 7.5 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5 m
• Width of all internal roads: 7.5 meter</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of aerated block, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 10 nos. of solar lighting, roof top thermal insulation etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 1,250 KVA
Connected load: 1,250KVA
Source: UGVCL
• % of saving with calculations: ~40% by use of LED, solar lights and star rated energy efficient electronic consumer durables
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area
• DG Sets:
No. and capacity of the DG sets:1 × 60 KVA
Fuel & its quantity: HSD, 10 litre/hr</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• During Construction Phase: Provision of Personal Protective Equipment's (PPEs) and its usage shall be ensured and supervised, training on construction safety aspects, first aid room with first aid kit, doctor & ambulance service.
• During operation phase: Fire extinguishers, hose reel, manually operated electric fire alarm system, underground static water storage tank-100 KL, terrace tank -50 KL (total capacity),automatic sprinkler system in basement, pump near underground static water storage tank (fire pump) with minimum pressure of 3.5 kg/cm2 at terrace level –one electric and one diesel pump of capacity 2,280 lit/min and one electric pump of capacity 180 lit/min.</td></tr>
<tr><td>20.</td><td>Details on staircase</td><td>
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area m2</th><th>No. of staircase</th><th>Width of the staircase (m)</th><th>Travel distance (m)</th></tr>
<tr><td>“A” Block</td><td>G + 11</td><td>313.11</td><td>1</td><td>2.67</td><td>18.8</td></tr>
<tr><td>“B” Block</td><td>G + 11</td><td>289.08</td><td>1</td><td>2.67</td><td>18.8</td></tr>
<tr><td>“C” Block</td><td>G + 11</td><td>448.48</td><td>1</td><td>2.67</td><td>18.8</td></tr>
<tr><td>“D” Block</td><td>G + 10</td><td>448.48</td><td>1</td><td>2.67</td><td>18.8</td></tr>
</table>
</td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 20 m
• No. & dimensions of RWH tank(s) : 2 No and 2.5m X 2.0 m X 3.0 m
• No. and depth of percolations wells : 2 Nos and 15 m
• Details on Pre-treatment facilities : oil and grease removal and filter</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) :219.0</td></tr>
</table>

		• Area covered by shrubs and bushes (m^2):199.38 • Lawn covered area (m^2): 1566.47 m^2 • Total Green Area (m^2):1,984.85 • Green Area % of plot area: 20% • No. of trees and species to be planted: 100 –number of trees of Limbdo, Pipal , Asopalav, and Gulmohar
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.
24.	Dust control measures	Capital cost of Rs. 19.0 lacs and recurring cost of Rs. 10.0 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management etc.
25.	Details of ecofriendly Building materials	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc.
26.	Details of basic amenities to be provided to construction workers.	Sanitation facilities & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.
27.	Documents related to land possession.	Village form no. 7 & N.A orders submitted for all the survey numbers show that the N.A land for residential & commercial use are in the name of applicant Mr. Tarun S. Varma & others.

During the meeting, after detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

14	Valthan Hotel Building	B. No. 7, 8, 13, 15/P, Moje: Valthan, Ta: Kamrej, Dist:Surat	Screening & scoping

Details of the proposed project as presented before the committee is tabulated below:

S.No.	Particulars	Details
1.	Proposal is for	New Project[SIA/GJ/NCP/42381/2016]
2.	Type of Project	Building and Construction Projects
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Valthan Hotel Building
5.	Name of Developer	Jayantibhai V Narola & Ishvarbhai A Dholakia
6.	Estimated Project Cost (Rs. In Crores)	Rs. 282.38 crores.
7.	Whether construction work has been initiated at site? If yes, details thereof	No.

<table>
<tr><td>8.</td><td>Project Details</td><td>
• Land / Plot Area (m^2): 96,938.0
• Net Plot Area (m^2): 89,524.00
• FSI area (m^2): 82,186.80
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area</td><td>3,13,334.0</td><td>82,186.80 m^2</td></tr>
<tr><td>Ground Coverage</td><td>26,857.20 m^2</td><td>19,200.83 m^2</td></tr>
<tr><td>Common Plot Area</td><td>9,693.80 m^2</td><td>5,665.71 m^2</td></tr>
<tr><td>Max. building height</td><td>60.0 m</td><td>42.14 m</td></tr>
</table>
• Total BUA (m^2): 1,20,945.42
</td></tr>
<tr><td>9.</td><td>Building Details</td><td>
• No./type of Buildings: 06
• No. of Blocks/units: 33 villas+ 3 hotel building+1 staff quarter+1 Health club with mini theatre
• Scope of buildings/blocks: Basement + ground floor + 11 floors.
• No. & size of Residential Units: NA.
• No. & type of Commercial Units: 33villas+3 hotel building+1staff quarter + 1 Health club with mini theatre.
• Details of amenities if any: NA
</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>
<table>
<tr><td>Users</td><td>Number of Users</td></tr>
<tr><td>Total Staff</td><td>384</td></tr>
<tr><td>Total Visitors</td><td>3112</td></tr>
<tr><td>Guest</td><td>1209</td></tr>
<tr><td>Occupants</td><td>60</td></tr>
</table>
</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>
• Water requirement (KL/day): 13.0
• Source of water: Water supply from Surat Urban Development Authority (SUDA).
• Waste water generation quantity (KL/day): 2.4
• Mode of disposal: The sewage generated will be sent to temporary septic tank and soak pits.
• Details of reuse of water, if any: Not applicable.
</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>
• Fresh water requirement (KL/day): 274.0
• Source of water: Water supply from SUDA.
• Waste water generation quantity (KL/day): 365.0
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening & flushing purpose within premises and remaining quantity of treated sewage will be disposed off through u/g drainage system of SUDA.
• In case of STP provision, capacity of STP: 450 KL/day.
• STP Technology: Conventional STP comprising of primary + secondary + tertiary treatment.
• Purposes for treated water utilization: Gardening & flushing.
• Quantity of treated water to be reused:1.Gardening (KL/day): 48.0
• 2. Flushing (KL/day) : 157.0
• Provision of dual plumbing system (Yes/No): Yes.
• Quantity and type (treated/untreated) of water to be discharged: Treated, 150.0 KLD during non monsoon season & 198.0 KLD during monsoon season.
• Mode of disposal: Remaining quantity of treated sewage after reusing it for gardening & flushing purpose will be discharged in to u/g drainage line of SUDA.
</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connection will be made available to the project during the operation phase after getting B.U permission.</td></tr>
<tr><td>14.</td><td>Solid waste</td><td>Construction Phase:</td></tr>
</table>

<table>
<tr><td></td><td>Management</td><td>
<table>
<tr><th></th><th>Generation (m^3)</th><th>Quantity to be reused (m^3)</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Top Soil</td><td>5,000</td><td>5,000</td><td>Landscaping development.</td></tr>
<tr><td>Other excavated earth</td><td>10,000</td><td>10,000</td><td>Levelling of the site, internal roads, etc.</td></tr>
<tr><td>Construction debris</td><td>1000</td><td>-</td><td>Will be used for internal road & pavement development.</td></tr>
<tr><td>Steel scrap</td><td>180</td><td>-</td><td>Will be Sold to scrap dealer</td></tr>
<tr><td>Discarded packing materials</td><td>70</td><td>-</td><td>Will be Sold to scrap dealer</td></tr>
</table>
Operation Phase:
<table>
<tr><th>Type of waste</th><th>Generation Quantity (Kg/day)</th><th>Mode of waste collection</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Dry waste</td><td>550*</td><td>Will be Collected in Bins</td><td>Solid Waste will be collected and will be disposed off at nearby sanitary landfill site of SUDA</td></tr>
<tr><td>Wet waste</td><td>1132#</td><td>Will be Collected in Bins</td><td>-do-</td></tr>
</table>
• Details of segregation if to be done: Not proposed.
• Capacity and no. of community bins to be placed within premises: 50 Nos. of 50 kg each.
• Landfill site where waste will be ultimately disposed by local authority: will be finally disposed off at nearby sanitary landfill site of SUDA..
</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>
• Total parking area requirement for the project as per GDCR: 41,093.40 m^2.
• Parking area requirement for Commercial units as per GDCR: 41,093.40 m^2
• Total number of CPS requirement for the project as per NBC: 540.
• Number of CPS requirement for commercial units as per NBC: 540
• Total Parking area provided (m^2) & No. of CPS: 41,113.63 m^2 & 1500 CPS
• Parking area provided in basement (m^2) & No. of CPS: 23,266.51 m^2 & 727 Nos.
• Parking area provided in hollow plinth (m^2) & No. of CPS: 281.50 m^2 & 10 Nos.
• Parking area provided as open surface (m^2) & No. of CPS: 13531.12 m^2 & 588 Nos.
• Parking area provided (at any other place-specify) (m^2) & No. of CPS: 4,034.50 m^2 & 175 CPS in common open plot.
</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>
• Width of adjacent public roads: 41.46 m.
• Number of Entry & Exit provided on approach road/s: Two gates will be provided.
• Width of Entry & Exit provided on approach road/s: 12 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5.0 m
• Width of all internal roads:7.5 & 12 m
</td></tr>
</table>

<table>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Wall panel fabrics with recycled content, low-VOC emitting and refurbished or bio-harvested renewable material content for flooring. Provision of local exhaust ventilation to areas where indoor air pollutant build-up could be a problem, on-site rainwater recharging systems for storm water control and non-potable water uses, formaldehyde free Medium Density Fibreboard (MDF), use of polyethylene plastic piping in lieu of PVC piping, built-in entry way mats with drop pans and adequate drains to catch dirt off shoes, green belt development (12.37% of total plot area), provision of onsite STP & reuse of treated sewage etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 2500 KVA
Connected load: 3000 KVA
Source: DGVCL (Dakshin Gujarat Vij Co. Limited)
• Energy saving by Non-conventional Methods:
• Energy saving measures: T5/T8 and CFL lighting in all internal common areas, equivalent size windows to get the sufficient day light.
• % of saving with calculations: 35% saving on energy
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: Yes
<table>
<tr><th>Section No.</th><th>Requirement</th><th>Compliance</th></tr>
<tr><td>7.2</td><td>Lighting controls occupancy/ time switch</td><td>Parking area lighting will be controlled through switch with alternate switching.</td></tr>
<tr><td>7.2.1.4</td><td>Exterior lighting to be photo sensor or time switch</td><td>External lighting will be controlled through timer.</td></tr>
<tr><td>7.3</td><td>Interior lighting power to be within specified limits</td><td>All light in common open area will be ceiling mounted. It illuminates the required area only.</td></tr>
<tr><td>7.4</td><td>Exterior lighting power to be within specified limits</td><td>All lights will be with bracket or arm, so no extra light will be cross boundary limit.</td></tr>
<tr><td>8.2.1.1</td><td>Maximum allowable power lose from transformer</td><td>Shall be used energy efficient transformers as per ECBC Norms.</td></tr>
<tr><td>8.2.2</td><td>Energy efficient motors</td><td>For the common area, all motor will be energy efficient as per ECBC.</td></tr>
<tr><td>8.2.3</td><td>Power factor be maintained between 0.95 and unity</td><td>We will use capacitor bank for common areas load to maintain power factor.</td></tr>
<tr><td>8.2.5</td><td>Power distribution system losses to be maintained less than 1%.</td><td>We will consider low watt loss type MCB in all distribution system.</td></tr>
</table>
• DG Sets:
No. and capacity of the DG sets: 2 x125 KVA.
Fuel & its quantity: Diesel, 50lit/hr
D.G.Set will be used in case of emergency only.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• Nearest fire station: Kapodra Fire Station, Surat
Distance from the project site: approximate at 12.5 Km
• Details of Safety measures for the construction workers: Full body harness will be provided to all the workers working at Height. Safety net will also be provided to prevent the fall hazard.All construction workers will be provided</td></tr>
</table>

		appropriate PPEs like dust mask, ear plug, helmet, safety belt etc. and made to wear them during working hours.
20.	Details on staircase	

Sr. No.	Type of Bldg.	Description	Unit	Stairs and Lift Details	Building Height (m)
1	A	Basement	Parking	- 6 stairs 2.0 m width each - 16 Lifts - 6 Escalator	42.14 Terrace Level
		Ground Floor	Banquet Hall		
			Clock Room		
			Tourist Shopping (17 Nos)		
		First Floor	Restaurant		
			Meeting Room (3 Nos)		
			Tourist Shopping (17 Nos)		
		Second Floor	Gym		
			Cardio		
			Yoga		
			Indoor game		
			Offices (16 Nos)		
		Third Floor	Services Area		
		4th To eleven floor	Hotel Rooms (214 Nos)]		
2	B	Basement	Parking	- 6 stairs 2.0 m width each - 16 Lifts - 5 Escalator	42.14 Terrace Level
		Ground Floor	Tourist Shopping (17 Nos)		
			Banquet Hall (6 Nos)		
			Clock Room		
		First Floor	Restaurant		
			Tourist Shopping (16 Nos)		
			Meeting Room (03 Nos)		
		Second Floor	Gym		
			Cardio		
			Indoor game Zone		
			Yoga		
			Offices (14 Nos)		
		Third Floor	Services Area		
		Fourth floor To eleventh	Hotel Rooms (214 Nos)		
3	C	Basement	Parking	- 2 stairs 2.0 m width each - 6 Lifts - 2 Escalator	42.14 Terrace Level
		Ground Floor	Banquet Hall (4 Nos)		
			Convention Hall		
		First Floor	Restaurant , Meeting rooms		
		Second Floor	Gym.		
			Cardio		

					Indoor Game		
					Yoga		
				Third Floor	Services Area		
				4th Floor to eleventh floor	Hotel Rooms (94 Nos)		
		4	D	Vila (GF + FF)	33 suits	Internal stair 1.23 m	9.29
		5	E	Ground Floor	Health club + Gym.	- 1 stairs 2.0 m width	7.3
				First Floor	Mini Theatre (190 Seats) + Game Zone		
		6	F	Ground floor	Parking	- 1 stair 1.23 m	12.65
				First floor to third floor (4 flats/ each floor)	Staff Quarter's (12 Flats)		
21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 5.0 to 7.0 m • No. & dimensions of RWH tank(s) : nil • No. and depth of percolations wells: 25 nos. & 40 m • Details on Pre-treatment facilities: Sand Filter will be used to remove suspended pollutants from the rainwater. After filtration, water will be recharged using percolation pit, filled with pebbles or brick and river sand and covered with perforated concrete slabs. Depth of recharge pit will be designed according to Water table of the area.					
22.	Green area details	• Tree covered area (m^2): 2,294.62 • Area covered by shrubs and bushes (m^2): 0 • Lawn covered area (m^2): 9,700.21 • Total Green Area (m^2): 11,994.83 • Green Area % of plot area: 12.37 % • No. of trees and species to be planted: 720 trees of 14 local species.					
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	(Please specify the activities and break up of budget allocation) Green Belt Development					

Year/Stage	No. of Plants	Capital Cost	Recurring Cost
1st year	250	0.375	0.600
2nd year	250	0.375	0.600
3rd year	220	0.330	0.600
Lawn	-	2.500	-
Total	720	3.580	1.800

24.	Proposed dust control measures during the construction phase	Water sprinkling on loose top soil, all the construction materials shall be stored in covered structures/areas, cement bags will be separately stored under cover in bales, sand will be stacked under tarpaulin cover etc.
25.	Eco friendly building material usage details.	Eco-Friendly building construction materials like fly ash brick/AAC block, lead free paints, aluminum windows and bagasse based particle board in doors will be used.
26.	Basic amenities to be provided to construction	Wash rooms, rest rooms, drinking water etc.

	workers.	
27.	Documents related to land possession	Village form no. 7 submitted by them shows that the agricultural land is n the name of other land owners.

During the meeting, the project proponent was asked to explore the possibility of utilizing solar energy in the form of solar street lights, solar water heaters, solar panels etc. During the meeting, it was decided to appraise the project further only after submission of the following:

1. Details on provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar street lighting, solar water heaters, solar panels etc. Measures proposed to comply with the ECBC norms / other international norms proposed for energy conservation. Details with back up calculation showing that how much of the total energy & water requirement of the proposed project will be compensated by the proposed energy conservation measures & reuse of treated sewage.
2. STP sludge management plan. Explore the possibility of installing organic waste convertor for converting biodegradable waste into the useful end products like manure, animal feed etc.
3. Details on margins to be provided on both the sides of kotar passing through the project site and copy of permission from the concerned competent authority in this regard.
4. Details of fire fighting system including location of fire water tanks & capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms & automatic fire extinguishers, location of fire lift and fire retardant staircases, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site etc. Calculation and provision of minimum fire water requirement based on fire study.
5. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.
6. Land possession documents showing the ownership of land by the applicant, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard and a copy of agreement made between the land owners & developers (if any).

15	Anand Sapphire	Survey number 136, F.P. No 112/2, TPS No: 32, Gota, Ahmedabad	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/42751/2015]
2.	Type of Project	Residential Cum Commercial Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Anand Sapphire
5.	Name of Developer	Babubhai Jesangbhai Desai
6.	Estimated Project Cost (Rs. In Crores)	38 Crores
7.	Whether construction work has been	No

<table>
<tr><td></td><td>initiated at site? If yes, details thereof</td><td></td></tr>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 4,684.0
• FSI area (m^2):12,646.21
• Total BUA (m^2):23,889.24

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>12,646.8</td><td>12,646.21</td></tr><tr><td>Ground Coverage (m^2)</td><td>NA</td><td>1,622.56</td></tr><tr><td>Common Plot Area (m^2)</td><td>468.4</td><td>468.4</td></tr><tr><td>Max. building height (m)</td><td>NA</td><td>45</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings:3
• No. of Blocks:3
• Scope of buildings/blocks: 2 level basement + ground floor (parking & shops) + 12 floors.
• No.& size of Residential Units: Total 106 flats. 84 Flats- 3BHK (Size 124.14 m2) , 22 Flats- 3BHK (Size 145.32 m2)
• No. & type of Commercial Units : 36 shops
• Details of amenities if any: No</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>549 occupants and 100 visitors</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 21.75
• Source of water: Water tankers
• Waste water generation quantity (KL/day): 5.73
• Mode of disposal: Soak tank
• Details of reuse of water, if any: No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day):71.23
• Source of water: Water supply from AMC
• Waste water generation quantity (KL/day):55.3
• Mode of disposal: Into drainage line of AMC.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Available at site</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:<table><tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr><tr><td>Top Soil</td><td>2,400</td><td>2,400</td><td>Development of landscape area</td></tr><tr><td>Other excavated earth</td><td>21,600</td><td>12,000 m^3 will be used for back filling and raising plinth level.</td><td>Balance earth will be used at other projects as per requirement.</td></tr><tr><td>Construction debris</td><td>250</td><td>170 m^3 will be used for development of internal road.</td><td>Balance debris will be handed over to local authority or fill in low laying areas.</td></tr><tr><td>Steel scrap</td><td>12</td><td>0</td><td>Sold to vendors</td></tr><tr><td>Discarded packing materials</td><td>8</td><td>0</td><td>Sold to vendors</td></tr></table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>Operation Phase:
<table>
<tr><td>Type of waste</td><td>Generation Quantity (Kg/day)</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Dry waste</td><td>124.24</td><td>White bins</td><td>Sold to vendors</td></tr>
<tr><td>Wet waste</td><td>186.36</td><td>Green Bins</td><td>Municipal bins</td></tr>
</table>
• Details of segregation if to be done: yes
• Capacity and no. of community bins to be placed within premises: 15 kg and 10 number of community bins to be placed in common areas.
• Landfill site where waste will be ultimately disposed by local authority: Nearby municipal solid waste collection / dumping site of AMC.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR: 3,033.02 m^2
• Parking area requirement for residential units as per GDCR: 2,193.39 m^2
• Parking area requirement for Commercial units as per GDCR: 839.63 m^2
• Total number of CPS requirement for the project as per NBC :140
• Number of CPS requirement for residential units as per NBC: 106
• Number of CPS requirement for commercial units as per NBC:34
• Total Parking area provided (m^2) & No. of CPS: 8,060.53 & 261 CPS
• Parking area provided in basement (m^2) & No. of CPS:6,652.14 & 207 CPS
• Parking area provided in hollow plinth (m^2) & No. of CPS:777.61 & 27 CPS
• Parking area provided as open surface (m^2) & No. of CPS:630.78 & 27 CPS</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads:30 m and 24 m wide roads
• Number of Entry & Exit provided on approach road/s: Three gates will be provided.
• Width of Entry & Exit provided on approach road/s: 6 m, 7.5 m & 9 m.
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4.0 m
• Width of all internal roads: minimum 6 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of RMC & aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 8 numbers of solar lighting, roof-top thermal insulation, water meters, rain water harvesting & ground water recharge through 2 nos. of percolating wells etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 900 KVA
Connected load: 1000 KVA
Source: Torrent Power Limited
• % of saving with calculations: ~40% by use of LED, solar lights and star rated energy efficient electronic consumer durables
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area
• DG Sets:
No. and capacity of the DG sets:1 x 62.5 KVA
Fuel & its quantity: HSD, 12 litre/hr</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• During Construction Phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safety aspects, first aid room with first aid kit, doctor & ambulance service.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• During operation phase (Commercial): Fire extinguishers, hose reel, manually operated electric fire alarm system, down comer, automatic sprinkler system in basement, underground static water storage tank-200 KL capacity, terrace tank -30 KL capacity (total capacity), pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm2 at terrace level etc.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area m^2</th><th>No. of staircase</th><th>Width of the staircase (m)</th><th>Travel distance (m)</th></tr>
<tr><td>A ,C</td><td>G/HP + 12</td><td>398.71</td><td>1</td><td>2.02</td><td>26</td></tr>
<tr><td>B</td><td>G/HP + 12</td><td>229.3</td><td>1</td><td>2.02</td><td>20</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 23 m
• No. & dimensions of RWH tank(s) : 2 No and 2.5m X 2.0 m X 3.0 m
• No. and depth of percolations wells : 2 nos.
• Details on Pre-treatment facilities: oil and grease removal and filter.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) :150.0
• Area covered by shrubs and bushes (m^2):100.0
• Lawn covered area (m^2):218.4
• Total Green Area (m^2):468.4
• Green Area % of plot area: 10%
• No. of trees and species to be planted: 71 number of trees of Limbdo, KaadoSiris, Jambu, Asopalav, DesiBadam and Gulmohar</td></tr>
<tr><td>23.</td><td>Dust control measures</td><td>Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.</td></tr>
<tr><td>24.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>Allocation of Rs.18.0 lacs & Rs.10 lacs as capital cost & recurring cost respectively has been made for EMP & EMS.</td></tr>
<tr><td>25.</td><td>Details of eco friendly building materials</td><td>Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc.</td></tr>
<tr><td>26.</td><td>Details of amenities to be provided to construction workers.</td><td>Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.</td></tr>
<tr><td>27.</td><td>Documents related to land possession</td><td>Village form no. 7 shows that the agricultural land is in the name of Applicant. Copy of application made for obtaining N.A permission has been submitted. Copy of Zoning certificate obtained from AMC has been submitted which shows that the project site fall in the residential zone R1.</td></tr>
</table>

During the meeting, after detailed discussion it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

16	The Grand Eastern	T.P.S.no.119 (Nilol), S.No.452, F.P.No.95, Nikol, Dist: Ahmedabad.	Screening & scoping / appraisal.

Details of the proposed project as presented before the committee is tabulated below:

<table>
<tr><td>Sr. No.</td><td>Particulars</td><td>Details</td></tr>
<tr><td>1.</td><td>Proposal is for</td><td>New Project[SIA/GJ/NCP/40766/2016]</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Residential & Commercial</td></tr>
<tr><td>3.</td><td>Project / Activity No. [8(a) or 8(b)]</td><td>8(a)</td></tr>
<tr><td>4.</td><td>Name of the project</td><td>The Grand Eastern</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Pearl Associates.</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>25 Crores</td></tr>
<tr><td>7.</td><td>Whether construction work has been initiated at site? If yes, details thereof</td><td>No construction activity has been started</td></tr>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2) : 9,387.0
• FSI area (m^2): 25,344.64
• Total BUA (m^2): 40,657.17 m^2

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area</td><td>25,344.90 m^2</td><td>25,344.64 m^2</td></tr><tr><td>Ground Coverage</td><td>---</td><td>4,349.73 m^2</td></tr><tr><td>Common Plot Area</td><td>938.70 m^2</td><td>961.35 m^2</td></tr><tr><td>Max. building height</td><td>30.0 m</td><td>25.0 m</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings: 5 (4 Residential & 1 Commercial)
• No. of Blocks: 7 (6 Residential & 1 Commercial)
• Scope of buildings/blocks: 4 residential buildings – Basement + hollow plinth + 7 floors. 1 commercial building – Basement + ground floor + 5 floors.
• No.& size of Residential Units: 84 flats. 4 BHK Residential Flats of 222.04 m^2 & 5 BHK Residential Flats of 273.47 m^2
• No. & type of Commercial Units: 74 Nos of Shops of 45.48 m^2 – 125.20 m^2</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Fixed population - 568 persons & Floating population – 316 persons.</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 20
• Source of water: Water tankers.
• Waste water generation quantity (KL/day): 4.0
• Mode of disposal: Into septic tank & soak pit.
• Details of reuse of water, if any:</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 72.16
• Source of water: Water supply from Ahmedabad Municipal Corporation
• Waste water generation quantity (KL/day): 55.72
• Mode of disposal: Into drainage line of Ahmedabad Municipal Corporation.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connections area available in the area.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:<table><tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr><tr><td>Top Soil</td><td>5,677</td><td>5,677</td><td>Will be reused for gardening &</td></tr></table></td></tr>
</table>

					landscape development
		Other excavated earth	2,839	2,839	Will be completely reused for back filling the low lying areas.
		Construction debris	550	550	Will be reused for plinth filling & internal road sub base.
		Steel scrap	1,300	1,300	Will be sold to vendors.
		Discarded packing materials	2,839	2,839	Will be sold to vendors.

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste & wet waste	81.5	22 nos. of bins of 80 lit capacity will be provided at various locations.	The community bins will be regularly emptied by AMC for its final disposal.

- Details of segregation if to be done: No
- Capacity and no. of community bins to be placed within premises: 22 nos. of bins of 80 lit capacity will be provided at various common locations.
- Landfill site where waste will be ultimately disposed by local authority: at the nearby MSW dumping/landfill site of AMC.

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 6,645.11 m^2 • Parking area requirement for residential units as per GDCR: 4,018.14 m^2 • Parking area requirement for Commercial units as per GDCR: 2,626.97 m^2 • Total number of CPS requirement for the project as per NBC : 189 • Number of CPS requirement for residential units as per NBC: 84 • Number of CPS requirement for commercial units as per NBC: 105 • Total Parking area provided (m^2) & No. of ECS: 8,754.16 m^2 and 281 CPS • Parking area provided in basement (m^2) & No. of ECS: 7,000.0 m^2 and 219 CPS • Parking area provided in hollow plinth (m^2) & No. of ECS: 1,754.16 m^2 and 62 CPS
16.	Traffic Management	• Width of adjacent public roads: 12 m, 18m • Number of Entry & Exit provided on approach road/s: Two separate gates will be provided for residential & commercial units. • Width of Entry & Exit provided on approach road/s: 7.50 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width forthe plantation): 3.5 • Width of all internal roads: 7.50 m
17.	Details of Green Building measures proposed.	Maximum use of CFL lights, solar lighting in common sun lit areas, rain water harvesting through ground water recharge.
18.	Energy Requirement,	• Power supply: Maximum demand: 474 KW

<table>
<tr><td></td><td>Source and Conservation</td><td>Connected load:
Source: Torrent Power Limited
• Energy saving by Non-conventional Methods: Maximum use of CFL lights, adoption of modes of alternative eco friendly sources of energy, solar street lighting etc.
• DG Sets:
No. and capacity of the DG sets: 1 x 62.5 KVA
Fuel Consumption: 12 litre/hr (HSD)</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fore extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system in basement, manual electric fire alarm system, automatic detection & alarm system, pump near underground static water storage tank – one diesel pump of capacity -2850 L/min. and one electric pump of capacity – 180 l/min.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area</th><th>No. of staircase</th><th>Width of the staircase (m)</th><th>Travel distance (m)</th></tr>
<tr><td>A+B, E+F</td><td>7</td><td>737.40</td><td>2</td><td>1.55</td><td><25</td></tr>
<tr><td>C, D</td><td>7</td><td>530.62</td><td>2</td><td>1.55</td><td><25</td></tr>
<tr><td>1 No. of comm. Block</td><td>5</td><td>689.21</td><td>1</td><td>1.55</td><td><25</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table:
• No. & dimensions of RWH tank(s) :
• No. and depth of percolations wells: 3 Nos.
• Details on Pre-treatment facilities : Filtration & oil & grease removal.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) : 520.37
• Area covered by shrubs and bushes (m^2):
• Lawn covered area (m^2): 710.11
• Total Green Area (m^2): 1,230.48
• Green Area 10% of plot area: 938.70
• No. of trees and species to be planted: 141 trees of local species.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>---</td></tr>
<tr><td>24.</td><td>Proposed dust control measures during the construction phase</td><td>Temporary windshield barriers will be provided. Regular water sprinkling will be done. Tarpaulin sheet covers on the material during the transportation. Uniform piling of sand and proper storage to avoid dusting.</td></tr>
<tr><td>25.</td><td>Eco friendly building material usage details.</td><td>Fly ash paver blocks for pavements / walkways, most of the carpentry structures will be made up of processed engineering wood/particle board instead of wood, maximum use of Portland Pozzolona Cement etc.</td></tr>
<tr><td>26.</td><td>Details of amenities to be provided to construction workers.</td><td>Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.</td></tr>
</table>

During the meeting, after detailed discussion, it was decided to consider the project only after submission of the following:

1. Land possession documents showing the ownership of land by the applicant, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of

documents showing the correspondences made in this regard and a copy of agreement made between the land owners & developers (if any).

2. Details on Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.

17	Building construction project by M/s Nila Infrastructure.	S.No.375, F.P.No.1, T.P.S.No.:3, Ranip, Ahmedabad	Screening & scoping / appraisal.

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project
2.	Type of Project	Residentialcum Commercial Building Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	.Residential & Commercial Building Construction project.
5.	Name of Developer	Nila Infrastructures Ltd.
6.	Estimated Project Cost (Rs. In Crores)	Rs .50Crore
7.	Whether construction work has been initiated at site? If yes, details thereof	No
8.	Project Details	• Land / Plot Area (m^2): 7,792.0 • FSI area (m^2):20,991.58 • Total BUA (m^2): 32,127.12m^2
9.	Building Details	• No. of Buildings: 4 • No. of blocks: 4 • Scope of buildings/blocks: 1 building – ground floor (parking & shops) + 12 floors. 3 buildings – hollow plinth + 7 floors. • No. of residential units: 468 (336 flats – 1 BHK & 132 flats – 2 BHK) • No. of commercial units:21 shops • Details of amenities if any:
10.	No. of expected residents / users	2919 person
11.	Water & waste water details during construction	• Water requirement (KL/day): 56.3 • Source of water: Water tankers. • Waste water generation quantity (KL/day): 5.04 • Mode of disposal: Through septic tank to soak pit

	Permissible	Proposed
FSI Area, (m^2)	21,038.40	20,991.58
Ground Coverage, (m^2)	-	3,286.44
Common Plot Area, (m^2)	779.20	949.95
Max. building height, (m)	-	45.8

<table>
<tr><td></td><td>phase</td><td>• Details of reuse of water, if any: No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 395.0
• Source of water: Water supply from AMC.
• Waste water generation quantity (KL/day): 313.0
• Mode of disposal: Into AMC sewerage line.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>AMC water supply and AMC sewerage line will be available to the project during the operation phase of the project.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table>
<tr><th>Description</th><th>Generation (kg/day)</th><th>Quantity to be reused (kg/day)</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Top Soil</td><td>9.60</td><td>100 % reuse</td><td>For garden development</td></tr>
<tr><td>Other excavated earth</td><td>24.8</td><td>50 % reuse for back filling & plinth filling.</td><td>Remaining quantity will be send to the nearest collection point of AMC</td></tr>
<tr><td>Construction debris</td><td>88.5</td><td>30% reuse for pavement & internal road sub base.</td><td>Remaining quantity will be send to the nearest collection point of AMC</td></tr>
<tr><td>Steel scrap</td><td>4.6</td><td>--</td><td>Sell to Actual Users</td></tr>
<tr><td>Discarded packing materials</td><td>1.2</td><td>--</td><td>Sell to Actual Users</td></tr>
<tr><td colspan="4">Total Solid Waste shall (95 workers x 500 gm/person/) 47.5 kg/day</td></tr>
</table>
Operation Phase:
<table>
<tr><th>Type of waste</th><th>Generation Quantity (Kg/day)</th><th>Mode of waste collection</th><th>Mode of Disposal / Reuse</th></tr>
<tr><td>Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc.

Wet waste -Waste vegetable and food</td><td>1100</td><td>Organic waste and In organic waste will be collected in different buckets.</td><td>The recyclable waste will be sold to recyclers. The non recyclable solid waste will be transferred to the nearest collection point of AMC</td></tr>
</table>
• Details of segregation if to be done: collection of organic and inorganic waste will be in different buckets and it will be subsequently collected by AMC
• Capacity and no. of community bins to be placed within No of Bins: 60; Volume of Bins: 80 Lit each for Residential</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• No of Bins: 2; Volume of Bins: 80 Lit each for Commercial
• Landfill site where waste will be ultimately disposed by local authority: At the nearby MSW collection point of AMC.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR: 4,609.6 m^2.
• Total parking area requirement for residential units as per GDCR: 3,924.12 m^2
• Total parking area requirement for the commercial units as per GDCR: 685.48 m^2
• Total number of CPS requirement for the project as per NBC: 245
• Total number of CPS requirement for residential units as per NBC :234
• Total number of CPS requirement for the commercial units as per NBC :11
• Total Parking area provided (m^2) & No. of CPS:5,132.59 m^2 & 173 CPS
• Parking area provided in basement (m^2) & No. of CPS: 2,217.4 m^2 & 69 CPS.
• Parking area provided in hollow plinth (m^2) & No. of CPS: 2,915.19 m^2 & 104 CPS.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 18.20 m wide TPS Road
• Number of Entry & Exit provided on approach road/s: 2 gates will be provided.
• Width of Entry & Exit provided on approach road/s: 7.5 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m
• Width of all internal roads: 7.5</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>The transformers and motors will be provided having minimum efficiency of 85%. Use of CFL or solar lights in the common area. Use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling. Rain water harvesting through ground water recharge.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 1000 KW
Connected load: -
• Source: Torrent Power Limited
• Energy saving measures: The transformers and motors will be provided having minimum efficiency of 85%. Use of CFL or solar lights in the common area. Use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling. Rain water harvesting through ground water recharge.
• DG Sets: Not proposed.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fire extinguishers at each floor of commercial building, underground fire water storage tank of 50 KL & terrace fire water storage tank of 20 KL on each block..</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area m^2</th><th>No. of staircase /Lift</th><th>Width of the staircase(m)</th><th>Travel distance (m)</th></tr>
<tr><td>A</td><td>G.F.+12</td><td>654.86</td><td>2 /4</td><td>2.0</td><td>25</td></tr>
<tr><td>B</td><td>G.F.+7</td><td>482.74</td><td>1/2</td><td>1.52</td><td>25</td></tr>
<tr><td>C</td><td>G.F.+7</td><td>586.68</td><td>1/2</td><td>1.52</td><td>-</td></tr>
<tr><td>D</td><td>G.F.+7</td><td>704.46</td><td>1/2</td><td>1.52</td><td>-</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table:
• No. & dimensions of RWH tank(s) : 2nos (15.0m x 6.0m x 12.0m)
• No. and depth of percolations wells : 2 nos.</td></tr>
</table>

		• Details on Pre-treatment facilities : No
22.	Green area details	• Tree covered area (m^2) : 468 • Area covered by shrubs and bushes (m^2):100 • Lawn covered area (m^2): --- • Total Green Area (m^2): 568 • Green Area % of plot area: 6.01 % • No. of trees and species to be planted:117 trees of local species.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Total Rs. 20 lacs for MSW management, sewage disposal, greenbelt development, rain water harvesting & ground water recharge etc.
24.	Proposed dust control measures during the construction phase	Water spraying, PUC compulsion for vehicles, covered shed for cement loading activity, covering all the loose material with tarpaulin during stacking & transportation etc.
25.	Eco friendly building material usage details.	Use of Ready Mix Concrete (RMC)
26.	Details of basic amenities to be provided to construction workers.	Drinking water, sanitary facility, free of cost doctor service, all the required personal protective equipments etc.
27.	Documents related to land possession	Village form no. 7/12 submitted by them shows that the N.A land for residential use is in the name of land owners. The land owners have made "banakhat" with M/s Nila Infrastructures Ltd.

During the meeting, the project proponent was suggested to increase the parking area provision for the project. After detailed discussion, it was decided to consider the project only after submission of the following.

1. Explore the possibility of increasing the parking area provision for the project and revised details on parking area provision considering the same with back up calculation & parking plans.

2. Proposal for providing 2 staircases in the buildings having floor area more than 500 m2 on each floor and revised layout plan showing the same.

3. Exact aerial distance of the project site from the railway line and copy of permission / NOC obtained from concerned competent authority in this regard.

4. Details on the measures proposed to avoid adverse impacts of noise pollution due to close vicinity of railway line.

18	Institute for Plasma Research	Survey no. 35/D, 36/K, Village: Bhat, Taluka & District- Gandhinagar.	EC amendment & expansion

The SEIAA, Gujarat has accorded environmental clearance to Institute for Plasma Research for building construction project at Survey no. 35/D, 36/K, Village: Bhat, Taluka & District- Gandhinagar, vide order no. SEIAA/GUJ/EC/8(a)/266/2014 dated 30/09/2014 for the built up area of 61,027.97 m^2.

The project proponent, vide proposal no. SIA/GJ/NCP/41784/2016 dated 20/01/2016 submitted revised Form I

& Form IA and requested for amendment of Environmental Clearance order dated 30/09/2014 for the proposed changes in the project.

The request for amendment in terms of proposed expansion was considered during the meeting. Details of the project as per the EC granted and details of the project after the proposed expansion, as presented before the committee, are tabulated below:

Description	Details as per EC granted.	Details of the project after proposed changes.
Name of the project	Proposed Construction expansion of Laboratory & Auxiliary building project "Institute for Plasma Research" at survey no. 35/D, 36/K, Village: Bhat Taluka & District- Gandhinagar	Proposed Construction expansion of Laboratory buildings project "Institute for Plasma Research" at survey no. 35/D, 36/K, Village: Bhat Taluka & District- Gandhinagar
Name of the developer	Institute for Plasma Research	Institute for Plasma Research
Location address	Survey no. 35/D, 36/K, Village: Bhat, Taluka & District- Gandhinagar.	Survey no. 35/D, 36/K, Village: Bhat, Taluka & District- Gandhinagar.
Plot area (sq. m.)	2,02,344	2,02,344
Ground Coverage (sq. m.)	33,372.67	33,372.67+2,400.17= 35,773.44
Built – up area (sq. m.)	61,027.97	61,027.97 + 2,800.40 = 63,828.37
FSI area (sq.m.)	59,440.08	59,440.08 + 2,692.75 = 62,132.76
Number of buildings	34	34 + 5 = 39
Number of Units	62	62+ 5 = 67
No. of floors	Maximum - Ground + 5 floors, Maximum height 24 m	Proposed Construction Ground + 1 Floor and Proposed Construction height up to – 11.1 m
Basement area (sq. m.)	858.09	858.09 + NIL = 858.09
Hollow plinth area (sq. m.)	NIL	NIL
Parking requirement as per NBC	816 CPS	816+30= 846 CPS
Parking requirement as per GDR	16,699.55 Sq. m.	17,640.25 Sq. m.
Parking area provided (sq m) and number of CPS	835 CPS 19,207.43 Sq. m.	846 CPS 19,438.15 Sq. m.
Water requirement (KL/day)	526.0	526.35
Waste water generation (KL/day)	30 .0	30.35
Municipal Solid waste generation (kg/day)	128.0	134.0
Total green belt area (sq.m.)	68,017.07	65,616.3
Tree covered area (sq. m.)	27,669.25	25,268.48
Lawn covered area(sq. m.)	40,347.82	40,347.82

During the meeting, it was found that there will be additional buildings for Neutronics Laboratory with built up area of 2,800.40 m^2 after the proposed expansion. It was presented that they have obtained site approval & NOC from the Atomic Energy Regulatory Board (AERB) for the proposed Neutronics Laboratory buildings. It was presented that 18 nos. of existing trees need to be cut for the proposed construction and they have already applied to Forest Department for obtaining permission for cutting the trees. Domestic waste water to be generated will be treated in the onsite STP and treated sewage will be discharged into the drainage line of AUDA. After discussing various aspects of the project it was decided to recommend the project to SEIAA Gujarat for grant of amendment in the Environmental Clearance order dated 30/09/2014.

19	Millennium Textile House	T.P.No.7 (Anjana), O.P.No.28-A/2, & 28-A/3,	Screening & scoping /

	– 2,	F.P.No.95, 96 & 97, Anjana, Dist: Surat	appraisal.

The SEIAA, Gujarat has accorded environmental clearance to M/s Shanit Residencies Pvt. Ltd. for the commercial building construction project at T.P.No.7 (Anjana), O.P.No.28-A/2, & 28-A/3, F.P.No.95,96 & 97, Anjana, Dist: Surat vide order no. SEIAA/GUJ/EC/8(a)/154/2012 dated 29/05/2012 which was further amended vide order no. SEIAA/GUJ/EC/8(a)/73/2013 dated 16/04/2013 for the built up area of 73,346.27 m^2 comprising of 1 building housing total 392 nos. of commercial units.

The project proponent vide their online proposal no. IA/GJ/NCP/33540/2015 dated 02/12/2015 requested for amendment of Environmental Clearance order dated 29/05/2012 which was further amended vide order dated 16/04/2013 for the proposed expansion of the project.

The request for amendment in terms of proposed expansion was considered during the meeting. The project proponent presented the details of the previous and the revised project proposals which are tabulated below:

Description	Details as per EC granted	Details of the project after proposed changes
Name of the project	Millennium Textile House – 2	Millennium Textile House – 2
Name of the developer	M/s Shanit Residencies Pvt. Ltd.	M/s Shanit Residencies Pvt. Ltd.
Location address	T.P.No.7 (Anjana), O.P.No.28-A/2, & 28-A/3, F.P.No.95,96 & 97, Anjana, Dist: Surat	T.P.No.7 (Anjana), O.P.No.28-A/2, & 28-A/3, F.P.No.95,96 & 97, Anjana, Dist: Surat
Plot area (sq. m.)	24,531.0	24,531.0
Ground Coverage (sq. m.)	7,351.27	12,080.15
Built – up area (sq. m.)	73,346.27	98,123.19
FSI area (sq.m.)	55,194.19	98,123.19
Number of buildings	One	One
Number of units	392 shops & offices	606 offices & shops
No. of floors	2 level basement + ground floor + 7 floors	2 level basement + ground floor + 8 floors.
Basement area (sq. m.)	29,499.81	31,723.8
Parking requirement as per NBC	1202 CPS	1962 CPS
Parking requirement as per GDR	16,558.26 m^2	49,061.6 m^2
Parking area provided (sq. m.) and number of CPS	34,103.99 m^2 [29,499.81 m^2 in 2 level basement + 4,604.18 m^2 as open surface parking] & 1122 CPS.	54,205.17 m^2 [31,800.68 m^2 in 2 level basement + 11,518.59 m^2 as open surface parking + 10,885.9 m^2 at terrace floor] & 1966 CPS.
Water requirement (KL/day)	35.43	57.04

Waste water generation (KL/day)	16.5	45.0
Municipal Solid waste generation (kg/day)	220.0	307.0
Total green belt area (sq.m.)	---	2,675.18
Tree covered area (sq. m.)	525.0	621.89
Lawn covered area (sq. m.)	---	2053.29

During the meeting, it was presented that due to availability of additional FSI up to 4 to the project, they have proposed the expansion with additional commercial units. They have submitted a copy of permission obtained from Urban Development & Urban Housing Department for the total FSI of 4. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Revised details on parking area provision based on the actual parking area available at terrace level and as open surface parking. Details on mechanical parking to be provided, basement height, operation & maintenance of mechanical parking etc., details on mode of transportation of cars from ground floor to terrace floor for parking purpose along with the safety measures proposed for the same.
2. Structural stability certificate from a structural engineer stating that the existing foundation & design of the building is capable for bearing the load of 2 level basement + ground floor + 8 floors.
3. Compliance report in respect of the stipulated terms and conditions in the Environmental Clearance order no. SEIAA/GUJ/EC/ 8(a)/ 154/2012 dated 29/05/2012 which was further amended vide order no. SEIAA/GUJ/EC/8(a)/73/2013 dated 16/04/2013.
4. Proposal for providing STP for treatment of sewage to be generated during the operation phase. Details of the Sewage Treatment Plant including its capacity, size of each unit, retention time and other technical parameters. Quality of treated sewage and application wise break-up of treated sewage quantity to be recycled / reused in flushing & green belt development, its location on the layout plan etc.
5. Revised water balance details considering the reuse of treated sewage for purposes like flushing, gardening etc. within premises.
6. Details of provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar water heater, solar street lighting, LED lighting. Details along with back up calculation showing how the additional energy consumption in such type of high rise buildings will be compensated with the proposed energy conservation measures.

20	Soham Residency	F.P. No. 25/Paikkee, TPS No. 1, Dist: Surat.	EC amendment & expansion.

The SEIAA, Gujarat has accorded environmental clearance to M/s Soham Developers for residential building construction project - “Soham Residency” at F.P. No. 25/Paiki, TPS No. 1, Dist: Surat., vide order no. SEIAA/GUJ/EC/8(a)/174/2012 dated 06/06/2012 for the built up area of 40,727.63 m^2.

The project proponent, vide proposal no. SIA/GJ/NCP/48085/2016 dated 07/02/2016 submitted revised Form I & Form IA and requested for amendment of Environmental Clearance order dated 06/06/2012 for the proposed changes in the planning & scope of the project.

The request for amendment in terms of proposed expansion was considered during the meeting. Details of the project as per the EC granted and details of the project after the proposed expansion, as presented before the

committee, are tabulated below:

Description	Details as per EC granted	Details of the project after proposed changes.
Name of the project	Soham Residency	Soham Residency
Name of the development	M/s. Soham Developers	M/s. Soham Developers
Location Address	F.P. No. 25/Paikkee, TPS No. 1, Dist: Surat.	F.P. No. 25/Paikkee, TPS No. 1, Dist: Surat.
Plot area (sq.m.)	17,425.95	17,425.95
Ground Coverage (sq.m.)	3,027.29	3,780.0
Bulit – up area (sq.m.)	40,727.63	54,062.67
FSI area (sq.m.)	31,451.61	39,120.11
Number of Building	6 Residential buildings	6 (5 Residential + 1 commercial)
Number of Units	286	286, 49 Offices
No. of floors	B+G+13	5 residential buildings - B+G+13 1 commercial building – B+G+10
Basement area (sq.m.)	3,489.92	6,370.72
Hollow plinth area (sq.m.)	3,027.29	3,780.0
Parking requirement as per NBC	286	351
Parking requirement as per GDR	4,734.89 m^2	11,736.03 m^2
Parking area provided (sq.m.) and number of CPS	8,121.96 m^2 & 286 CPS	11,829.54 m^2 & 409 CPS
Water requirement (KL/day) & Source of water	140 & SMC	240 & SMC
Waste water generation (KL/day) mode of disposal	120 & SMC drainage Network	190 & SMC drainage Network
Municipal Solid waste generation (kg/day)	357	395
Total green belt area (sq.m.)	537	537
Tree Covered area (sq.m.)	178	178
Lawn Covered area (sq.m.)	359	359

During the meeting, it was presented that from the total 6 buildings, construction of 4 buildings has already been completed, whereas construction activity for the remaining two buildings has not yet started. The project proponent was suggested to provide STP for treatment of sewage to be generated during the operation phase of the project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Justification for the proposed changes in terms of expansion along with the copy of permission obtained from the concerned competent authority for the proposed expansion.
2. Proposal for providing STP for treatment of sewage to be generated during the operation phase. Details of the Sewage Treatment Plant including its capacity, size of each unit, retention time, other technical parameters etc. along with the budget allocation for its installation, operation & maintenance. Quality of treated sewage and application wise break-up of treated sewage quantity to be recycled / reused in flushing & green belt development, its location on the layout plan, STP sludge management plan etc.
3. Revised water balance details considering the reuse of treated sewage for purposes like flushing, gardening etc. within premises.

4. Details of fire fighting system including location of fire water tanks & capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms & automatic fire extinguishers, location of fire lift and fire retardant staircases, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site etc.

21	Jaymangal Residency	S.No.4585/1, F.P.No.120/1, T.P.S.No.08, Asarwa, Ahmedabad	EC amendment & expansion.

The SEIAA, Gujarat has accorded environmental clearance to M/s Jaymangal Realities for residential building construction project - "Jaymangal Residency" at S.No.4585/1, F.P.No.120/1, T.P.S.No.08, Asarwa, Ahmedabad vide order no. SEIAA/GUJ/EC/8(a)/1208/2015 dated 31/03/2015 for the built up area of 30,600.0 m^2.

The project proponent, vide proposal no. SIA/GJ/NCP/41675/2016 dated 19/01/2016 submitted revised Form I & Form IA and requested for amendment of Environmental Clearance order dated 31/03/2015 for the proposed changes in the project.

The request for amendment in terms of proposed expansion was considered during the meeting. Details of the project as per the EC granted and details of the project after the proposed expansion, as presented before the committee, are tabulated below:

Description	Details as per EC granted	Details of the project after proposed changes.
Name of the project	Jaymangal Residency	Jaymangal Residency
Name of the development	M/s. Jaymangal Realities	M/s. Jaymangal Realities
Location Address	S.No.4585/1, F.P.No.120/1, T.P.S.No.08, Asarwa, Ahmedabad	S.No.4585/1, F.P.No.120/1, T.P.S.No.08, Asarwa, Ahmedabad
Plot area (sq.m.)	6,832.0	6,832.0
Ground Coverage (sq.m.)	2,451.52	2,539.0
Bulit – up area (sq.m.)	30,600.0	41,845.92
FSI area (sq.m.)	18,400.0	24,589.97
Number of Building	2 buildings with 6 blocks	2 buildings with 6 blocks
Number of Units	232 residential units	288 residential units
No. of floors	Basement + hollow plinth + 10 floors	2 level basement + hollow plinth + 12 floors
Basement area (sq.m.)	4,619.83	9,327.7
Hollow plinth area (sq.m.)	2,647.02	2,000.0
Parking requirement as per NBC	136 CPS	216 CPS
Parking requirement as per GDR	3,680.0 m^2	4,917.99 m^2
Parking area provided (sq.m.) and number of CPS	7,266.85 m^2 & 239 CPS	8047.04 m^2 & 253 CPS.
Water requirement (KL/day) & Source of water	176.50	218.5
Waste water generation (KL/day) mode of disposal	140.0	172.8
Municipal Solid waste generation (kg/day)	174.0	216.0
Total green belt area (sq.m.)	1,014.93	1,014.93
Tree Covered area (sq.m.)	433.36	433.36

Lawn Covered area (sq.m.)	581.57	581.57

During the meeting, after detailed discussion, it was decided to consider the project only after submission of the following:

1. Justification for the proposed changes in terms of expansion along with the copy of permission obtained from the concerned competent authority for the proposed expansion.
2. Structural stability certificate from a structural engineer stating that the foundation & design of the buildings are planned for the load bearing of 2 level basement + hollow plinth + 12 floors.

22	Residential & commercial project by M/s Shashwat Homes LLP.	F.P.No.86/1 & 90/4, S.No.19/1/1,19/1/2,19/2,20/1, 37/2,38/1,38/2,38/3,45,46 and 61, T.P.S.No.66/A, Ranip, Ahmedabad.	Screening & scoping / appraisal

Details of the proposed project as presented before the committee is tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project[SIA/GJ/NCP/42884/2016]
2.	Type of Project	Residential Cum Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Residential Cum Commercial
5.	Name of Developer	Shashwat Homes LLP
6.	Estimated Project Cost (Rs. In Crores)	160 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No
8.	Project Details	• Land / Plot Area (m^2): 40,942.39 • FSI area (m^2):1,10,541.04 • Total BUA (m^2):1,43,418.84
9.	Building Details	• No. of Buildings:104 Bungalow and 18 Buildings • No. of Blocks: 104 Bungalow and 18 Blocks • Scope of buildings/blocks: Bungalows of Ground floor + 2 floors. 18 buildings – Basement + ground floor (parking & shops) + 14 floors. • No.& size of Residential Units: Total 104 bungalows & 966 flats. [630 Flats- 3BHK (Size 82.49 m2), 336 Flats- 2BHK (Size 66.46 m2)]

	Permissible	Proposed
FSI Area	1,10,544.45	1,10,541.04
Ground Coverage	NA	17,278.86
Common Plot Area	4,094.2	4,150
Max. building height	NA	45

<table>
<tr><td></td><td></td><td>• 104 Bungalow- Size 308.11 m2
• No. & type of Commercial Units: 87 shops
• Details of amenities if any: One Society Office</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>4989 occupants and 300 visitors</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 43.5
• Source of water: Water tankers
• Waste water generation quantity (KL/day): 10.8
• Mode of disposal: Septic tank & soak pit
• Details of reuse of water, if any: No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total water requirement (KL/day): 681.02
• Fresh water requirement (KL/day): 437.46
• Source of water: water supply from AMC
• Waste water generation quantity (KL/day): 529.87
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening & flushing purpose within premises and remaining quantity of treated sewage will be discharged into the drainage line of AMC.
• In case of STP provision, capacity of STP: Yes (2 X300 KL/day)
• STP Technology: Biological
• Purposes for treated water utilization: Gardening and Flushing
• Quantity of treated water to be reused:1.Gardening (KL/day):18.67
2. Flushing (KL/day):224.89
• Provision of dual plumbing system (Yes/No): yes
• Quantity and type (treated/untreated) of sewage to be discharged: Treated sewage will be used for gardening & flushing purpose within premises and remaining quantity of treated sewage will be discharged into the drainage line of AMC.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Available at 150m from the site</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table>
<tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Top Soil</td><td>7,500</td><td>7,500</td><td>Development of landscape area</td></tr>
<tr><td>Other excavated earth</td><td>42,500</td><td>27,500 m^3 will be used for back filling and raising plinth level.</td><td>Balance earth will be used at other projects as per requirement.</td></tr>
<tr><td>Construction debris</td><td>1,300</td><td>600 m^3 will be used for development of internal road.</td><td>Balance debris will be handed over to local authority or fill in low laying areas.</td></tr>
<tr><td>Steel scrap</td><td>50</td><td>0</td><td>Sold to vendors</td></tr>
<tr><td>Discarded packing materials</td><td>20</td><td>0</td><td>Sold to vendors</td></tr>
</table>
Operation Phase:</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Type of waste</td><td>Generation Quantity (Kg/day)</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Dry waste</td><td>1212.48</td><td>White bins</td><td>Sold to vendors</td></tr>
<tr><td>Wet waste</td><td>1818.72</td><td>Green Bins</td><td>Municipal bins</td></tr>
<tr><td>STP Sludge</td><td>30</td><td>Green Bins</td><td>Municipal bins</td></tr>
</table>
• Details of segregation if to be done: yes
• Capacity and no. of community bins to be placed within premises: 15 kg and 20 number of community bins to be placed in common areas.
• Landfill site where waste will be ultimately disposed by local authority: Nearby municipal solid waste collection / dumping site of AMC.
</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>
• Total parking area requirement for the project as per GDCR: 16,220.69 m^2 & 104 cars.
• Parking area requirement for residential units as per GDCR: 14,945.81 m^2 & 104 car parking space.
• Parking area requirement for Commercial units as per GDCR: 1,274.88 m^2
• Total number of CPS requirement for the project as per NBC :637
• Number of CPS requirement for residential units as per NBC: 587
• Number of CPS requirement for commercial units as per NBC:51
• Total Parking area provided (m^2) & No. of ECS: 24,206.26 & 858 ECS
• Parking area provided in basement (m^2) & No. of ECS:12,580.23 & 393 ECS
• Parking area provided in hollow plinth (m^2) & No. of ECS:5,126.03 & 183 ECS
• Parking area provided as open surface (m^2) & No. of ECS:6,500 & 282 ECS
</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>
• Width of adjacent public roads: 18 m and 24m wide roads
• Number of Entry & Exit provided on approach road/s: Four gates will be provided.
• Width of Entry & Exit provided on approach road/s: 10 m & 7.5 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4 m
• Width of all internal roads: 10, 7.5 , 6 and 4.5 m
</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of RMC & aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 26 numbers of solar lighting, roof-top thermal insulation, water meters, rain water harvesting & ground water recharge through 11 nos. of percolating wells etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>
• Power supply:
Maximum demand: 6000 KVA
Connected load: 6250 KVA
Source: Torrent Power Limited
• % of saving with calculations: ~40% by use of LED & solar street lights and star rated energy efficient electronic consumer durables
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area
• DG Sets:
No. and capacity of the DG sets:1 × 62.5 KVA
Fuel & its quantity: HSD, 12 litre/hr
</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• During Construction Phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safety aspects, first aid room with first aid kit, doctor & ambulance service.</td></tr>
</table>

		• During operation phase (Commercial): Fire extinguishers, hose reel, yard hydrant, manually operated electric fire alarm system, down comer, automatic sprinkler system in basement, underground static water storage tank-300 KL capacity, terrace tank -180 KL capacity (total capacity), pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm2 at terrace level etc.

20. Details on staircase

Type & no. of buildings	No. of floors	Floor area m^2	No. of staircase	Width of the staircase (m)	Travel distance (m)
A to Q	G/HP + 14	353.47	1	1.5	22

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 20 m • No. & dimensions of RWH tank(s) : 11 No and 2.5m X 2.0 m X 3.0 m • No. and depth of percolations wells : 11 no and 15 m • Details on Pre-treatment facilities : oil and grease removal and filter.
22.	Green area details	• Tree covered area (m^2) :1,500 • Area covered by shrubs and bushes (m^2):800 • Lawn covered area (m^2):1,850 • Total Green Area (m^2):4,150 • Green Area % of plot area: 10% • No. of trees and species to be planted: 615 number of trees and Limbdo, KaadoSiris, Jambu, Asopalav, DesiBadam and Gulmohar.
23.	Dust control measures	Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.
24.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Allocation of Rs.133.0 lacs & Rs.18 lacs as capital cost & recurring cost respectively has been made for EMP & EMS.
25.	Details of ecofriendly building materials	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc.
26.	Details of amenities to be provided to construction workers.	Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.

During the meeting the project proponent was suggested to increase the parking area provision for the proposed project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Land possession documents showing the ownership of land by the applicant/project proponent, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard and a copy of agreement made between the land owners & developers (if any).
2. Project plans showing building wise & floor wise total built up area, FSI area, Floor area tables & plot area statement of the project.

3. Explore the possibility of increasing the parking area provision for the proposed project and revised details on the parking area provision considering the same along with the back up calculation & parking plans.
4. Exact aerial distance of the project site from the railway line and copy of permission / NOC obtained from concerned competent authority in this regard.
5. Details on the measures proposed to avoid adverse impacts of noise pollution due to close vicinity of railway line.

23.	M/s Dholi Integrated Spinning Park Ltd.,	at 276/1/2/3/4/5/6, 277/A/B, 279, 280, 289, 291, 292, 295, 297, 309, 310, 357/A/1, 357/A/5, 357/A/6, 357/A/11, Village: Dholi, Ta: Dholka, Dist: Ahmedabad.	TOR Amendment case.

The project proponent had applied for area development project falling under project activity 8(b) as per schedule annexed with the EIA Notification, 2006. During the meeting of SEAC held on 28/10/2015, the Terms of Reference were prescribed for the proposed textile park on 7,05,700.0 m^2 area (i.e 70.57 ha.) comprising of spinning & weaving units and not housing any category A & B units (as per the schedule annexed with the EIA Notification,2006).

Now, the project proponent has applied with revised Form – I & Form - IA for amendment in TOR prescribed during the meeting of SEAC held on 28/10/2015 with reference to allowing them to set up one textile processing unit, with Zero Effluent Discharge, within the premises of the proposed textile park.

The request of amendment in TOR was considered during the meeting and the project proponent along with their expert consultant attended the meeting.

It was presented that effluent to be generated from the proposed processing unit will be subject to the advanced treatment procedure comprising of anaerobic + aerobic treatment in primary treatment and 3 stage RO in tertiary treatment. It was presented that anaerobic hybrid reactor is better in colour removal, chemical usage is less compared to the conventional type treatment schemes and sludge reduction is achieved at greater extent. RO reject will be send to the Multiple Effect Evaporator and salt from MEE will be sent to the nearest TSDF site. RO permeate will be reused for cooling & other processes within the unit. It was further presented that they will manufacture only white denim in the proposed processing unit. Coal / Lignite 4 T/hr will be used as fuel for proposed boiler for MEE system. There will be 11 nos. of Spinning Units, 7 nos. of Weaving Units and one number of proposed Processing Unit in the proposed textile park.

After discussing the matter in detail during the meeting, it was decided to amend the TORs prescribed during the meeting of SEAC held on 28/10/2015 and the project proponent was asked to incorporate following additional Terms of Reference in the EIA report to be prepared based on the EIA study to be done covering 10 km radius from the project boundary of the proposed site in addition to the TORs prescribed during the meeting of SEAC held on 28/10/2015.

1. Details of the treatment scheme proposed including size of each unit, retention time, other technical parameters, complete technical details of RO etc. and its adequacy and efficacy report to ensure that the Zero Liquid Discharge will be achieved at all the time. Submit stage wise reduction of major parameters.
2. Techno-economic viability of the effluent treatment system to achieve zero discharge should be justified in detail.
3. Application wise break-up of treated effluent quantity to be recycled / reused in various applications within premises along with feasibility of its reuse. In case of land application, details on availability of sufficient open land for utilizing effluent for plantation / gardening. How it will be ensured that treated effluent won't

flow outside the premises linked with storm water during high rainy days.

4. Technical details of MEE including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required for the process etc. Techno-economical viability of the evaporation system.
5. Proposal to provide and maintain separate electric meter, operational logbook for effluent treatment systems including RO & MEE, online meters for monitoring of flow, pH, TOC/COD etc. of treated effluent to be reused.
6. Complete details on additional resource requirements & wastes generation (liquid, hazardous waste, process emission etc.), along with the mitigations measures, due to the proposed processing unit should also be incorporated in the EIA report.

The following project proponents did not remained present during the meeting. It was decided to call them again in one of the upcoming meetings of SEAC.

1. Pearl Villa and Plaza, Naroda, Ta:Asarwa, Dist:Ahmedabad
2. Skybell, T.P.No.114 (Vastral Ramol), S.No.774/2,F.P.No.31/2/1, At Vastral, Vatva, Ahmedabad.
3. The Banyan, T.P.S.No.51 (Bodakdev-Makarba-Vejalpur), 213 (Bodakdev), S.No.147/2/p,178/1,F.P. No. 95,134/2,160/2, Bodakdev, Ghatlodiya, Ahmedabad.
4. River Palace, Block No:435(435+436), Nr Ramji Temple, Moje-Tapi, Vyara, Dist-Tapi.
5. Al Madina Heights, Ta:Dahegam, Dist:Gandhinagar.
6. Hasmukhbhai Fulabhai Patel, R.S.No.35/1/1, 35/1/2, F.P.No.8, O.P.No.8, T.P.No.17, Saiyad Vasna, Vadodara.

The following project proponent attended the meeting but the committee decided not to hear them in view of violating the provisions of EIA Notification, 2006 by carrying out construction activity without obtaining prior Environmental Clearance.

1. Amardeep Homes, F.P.No. 6/A & 7/A, T.P.S.No.Sayajipura-1, Vill. Sayajipura, Dist. Vadodara.

Meeting ended with thanks to the Chair and the Members.

Minutes approved by:

1.	Shri V. C. Soni, Vice Chairman, SEAC.	
2.	Shri R. J. Shah, Member, SEAC.	
3.	Dr. V. K. Jain, Member, SEAC.	
4.	Shri V. N. Patel, Member, SEAC.	
5.	Shri Hardik Shah, Secretary, SEAC.	