Minutes of the 299th meeting of the State Level Expert Appraisal Committee held on 28/07/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 299th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 28th July, 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. *Hardik Shah (IAS), Member Secretary, SEAC.*

The agenda of TOR/Scoping/Category 8 (a) cases, Appraisal & Reconsideration cases was taken up. Ten (10) cases of TOR/Scoping/Category 8 (a), one (1) case of TOR amendment and eleven (11) cases of Appraisal was taken up. The applicants made presentations on the activities to be carried out along with other details furnished in the Form-1 / Form-1A, EIA report and other reports.

1.	Polaris Avenue	T.P.S No.-6 Vesu + T.P-75(Vesu - Magdlla -Gavier - Abhva) F.P.No.-59 +59/B Paikee Sub Plot No -2 At Vesu , Surat

Project proponent vide the proposal no. SIA/GJ/NCP/53311/2016 dated 10/05/2016 submitted application for obtaining Environmental Clearance for the residential building construction project with land area of 9,737.0 m^2, built up area of 61,484.38 m^2 and FSI area of 38,677.48 m^2 i.e the FSI of 3.97.

Project proponent along with their expert consultant attended the meeting of SEAC held on 25/05/2016 and presented that they have applied for obtaining Environmental Clearance for residential building construction project with FSI of 3.97 for which they have already applied to the State Government in Urban Development & Urban Housing Department (UD&UHD) for special permission and the permission is still awaited. Till the time the permission from UD&UHD for the proposed FSI of 3.97 is obtained, they plan to obtain Environmental Clearance for the proposed project with the base FSI of 2.2 which is available to the project as per the sanctioned GDCR in force.

The matter was discussed during the meeting held on 25/05/2016 and the committee was of the view that as discussed during the meeting of SEAC held on 04/05/2016, the opinion of Surat Municipal Corporation (SMC) & Surat Urban Development Authority (SUDA) has already been sought in this matter of availability of additional FSI with special permission of the State Government in UD&UHD under section 29(1)(ii) of Gujarat Town Planning and Urban Development Act, 1976 and a copy of the letter seeking opinion has already been sent to the UD&UHD, the project should be considered after obtaining the opinion of SMC & SUDA in this regard. Meanwhile the project proponent was asked to submit the revised proposal with base FSI available to the project as per the sanctioned GDCR, of course with all the provisions like parking area, Sewage Treatment Plant, Municipal Solid Waste management, fire & life safety measures etc. to be made as per the maximum permissible FSI to the project under section 29(1)(ii) of Gujarat Town Planning and Urban Development Act, 1976 for which the permission is sought from the UD&UHD. The project proponent was asked to submit the following:

1. Revised Form – I, Form – IA and revised project plans for the project with available base FSI as

per the sanctioned GDCR in force.

2. Comparative statement of the complete project details for the base FSI available to the project as per the sanctioned GDCR in force and the maximum permissible FSI to the project under section 29(1)(ii) of Gujarat Town Planning and Urban Development Act, 1976 should also be submitted.

Project proponent vide proposal no. SIA/GJ/NCP/16700/2016 dated 08/07/2016 submitted revised Form – 1 & Form – 1A along with the above mentioned comparative statement.

Project proponent along with their expert / consultant attended the meeting. During the meeting, the project was appraised based on the details submitted in revised form 1 & 1A as well as facts presented before the committee.

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 [Proposal No. SIA/GJ/NCP/53311/2016 & SIA/GJ/NCP/16700/16]</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Residential</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 Polaris Avenue</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Bavchandbhai Vashrambhai Bhagat</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 30 Crore</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): 9,737.0
• FSI area (m^2): 21,354.16
• Total BUA (m^2) : 42,349.78
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area (m^2)</td><td>21,421.4</td><td>21,354.16</td></tr>
<tr><td>Ground Coverage (m^2)</td><td>2,921.10</td><td>3,189.10</td></tr>
<tr><td>Common Plot Area (m^2)</td><td>981.0</td><td>981.0</td></tr>
<tr><td>Max. building height (m)</td><td>--</td><td>28.34</td></tr>
</table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings: 06 Nos.
• No. of Blocks: 6
• Scope of buildings/blocks: 2 level basement + ground floor + 7 floors.
• No. & size of Residential Units: 112 Flats
• No. & type of Commercial Units: --
• Details of amenities if any: --</td></tr>
<tr><td>10.</td><td>No. of expected residents /</td><td>Expected residents: 560
Expected visitors: 300</td></tr>
</table>

<table>
<tr><td></td><td>users</td><td></td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 14.00
• Source of water: Bore well water
• Waste water generation quantity (KL/day): 1.80
• Mode of disposal: into septic tank & soak pit system.</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 84
• Source of water: S.M.C
• Waste water generation quantity (KL/day): 64.00
• Mode of disposal: U/G drain of S.M.C</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 S.M.C.
• SMC water supply and drainage line is passing adjacent to the plot boundary.</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>490.50</td><td>490.50</td><td>Reuse for developing garden area</td></tr>
<tr><td>Other excavated earth</td><td>60,637.86</td><td>871.88 m^3 will be used for back filling</td><td>Remaining will be send to other project site for back filling & raising the plinth level in consultation with SMC.</td></tr>
<tr><td>Construction debris</td><td>445</td><td>212</td><td>Reused as a filler up to plinth level and remaining will be reused in outer road development</td></tr>
<tr><td>Steel scrap</td><td>17</td><td>--</td><td>Sold to local scrap vendors</td></tr>
<tr><td>Discarded packing materials</td><td>11</td><td>--</td><td>Sold to local vendors</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>198.0</td><td>Blue colour bucket</td><td>Through S.M.C's door to door waste collection system</td></tr>
<tr><td>Wet waste</td><td>132.0</td><td>Green colour bucket</td><td>Through S.M.C's door to door waste collection system</td></tr>
</table>
• Details of segregation if to be done: Separate bins will be provided to collect dry and wet waste.</td></tr>
</table>

		• Capacity and no. of community bins to be placed within premises: 1.0 m3 in each building • Landfill site where waste will be ultimately disposed by local authority: Khajod Landfill site of SMC
15.	Parking Details	• Total parking area requirement for the project as per GDCR: 5,801.6 m^2 • Parking area requirement for residential units as per GDCR: 5,801.6 m^2 • Total number of CPS requirement for the project as per NBC : 112 • Number of CPS requirement for residential units as per NBC: 112 • Total Parking area provided (m^2) & No. of CPS: 18,253.50 m^2 & 591 CPS • Parking area provided in basement (m^2) & No. of CPS: 16,027.0 m^2 & 502 CPS • Parking area provided in hollow plinth (m^2) & No. of CPS: 1,088.5 m^2 & 39 CPS • Parking area provided as open surface (m^2) & No. of CPS: 1,138.0 m^2 & 50 CPS
16.	Traffic Management	• Width of adjacent public roads: 18 m wide road • Number of Entry & Exit provided on approach road/s: 3 gates will be provided. • Width of Entry & Exit provided on approach road/s: 6 m & 7 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 m & 6 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, provision of STP & reuse of treated sewage etc.
18.	Energy Requirement, Source and Conservation	• Power supply • Maximum demand: 2000 KVA • Source: D.G.V.C.L • Energy saving by Non-conventional Methods: • 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: 01 x 125 KVA Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & quantity – 55 L/h in each.
19.	Fire and Life Safety Measures	Fire extinguishers at each floor, hose reel at each floor, wet riser, yard hydrant, automatic sprinkler system in basement, manually operated electric fire alarm system, automatic fire detection & alarm system, underground static fire water storage tank of 100 KL capacity, terrace tank of 25 KL capacity, one electric & one diesel

<table>
<tr><td></td><td></td><td>pump of capacity 2280 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm^2 at terrace level.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>Bld.</th><th>Floor No.</th><th>Floor Area (m^2)</th><th>No. of Staircase</th><th>Width of Staircase (m)</th><th>Maximum Travel Distance up to the Staircase (m) (< 30 m)</th></tr>
<tr><td>A & F</td><td>2B+G +7</td><td>494.34</td><td>01</td><td>1.52</td><td>18.43</td></tr>
<tr><td>B</td><td>2B+G +7</td><td>438.13</td><td>01</td><td>1.52</td><td>17.99</td></tr>
<tr><td>C & D</td><td>2B+G +7</td><td>628.36</td><td>02</td><td>1.52</td><td>20.39</td></tr>
<tr><td>E</td><td>2B+G +7</td><td>505.57</td><td>02</td><td>1.52</td><td>15.20</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 16.0 m
• No. & dimensions of RWH tank(s) : 05 no. of RWH tanks;
size: 4 m x 3 m x 3 m
Size of Bore: 350 mm dia.
Size of pipe: 150 mm dia.
• No. and depth of percolations wells: 05 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) : 366.00
• Area covered by shrubs and bushes (m^2): --
• Lawn covered area (m^2): 615.00
• Total Green Area (m^2): 981.00
• Green Area % of plot area: 10.00 %
• No. of trees and species to be planted: 61 trees of Asopalav, Cononut palm, Neem, Gulmohar etc.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>Capital cost of Rs. 91.7 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 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>
<tr><td>26.</td><td>Details on amenities to be provided to construction workers</td><td>Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.</td></tr>
<tr><td>27.</td><td>Documents related to land possession</td><td>Copy of index for F.P.No.59 from office of Sub-registrar submitted by them shows that land admeasuring 7,028.0 m^2 is in the name of applicant of the project.</td></tr>
</table>

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

1. Copy documents showing ownership of the land of F.P.No.59/B sub plot no.2 by the project proponent.

2	Parimal Elegance	T.P.No. : 39 (Naroda-1), S.No. : 1157, 1158, 1159,1160, 1161,F.P. 290, Naroda, Ahmedabad

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 & Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Parimal Elegance
5.	Name of Developer	Vastu Realty
6.	Estimated Project Cost (Rs. In Crores)	18 cr
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction activity has been started
8.	Project Details	• Land / Plot Area (m^2): 6,373.0 • FSI area (m^2):17,184.10 • Total BUA (m^2): 30,434.02
9.	Building Details	• No. of Buildings:4 (3 residential & 1 residential & commercial) • No. of Blocks: 5 • Scope of buildings/blocks: 3 residential buildings – basement + hollow plinth + 7 floors. 1 building (commercial & residential) basement + ground floor (parking & commercial units) + 7 floors. • No.& size of Residential Units: Total 138 flats (54 flats of 4 BHK & 140.76-141.14 m^2, 84 flats of 3 BHK & 105.34-107.41 m^2). • No. & type of Commercial Units: 20 Shops of 15.84 m^2–40.24m^2
10.	No. of expected residents / users	Fixed population considered for the project: 730 Floating population considered for the project: 316
11.	Water & waste water details	• Water requirement (KL/day): 20 • Source of water: Ahmedabad Municipal Corporation

	Permissible	Proposed
FSI Area	17,207.1	17,184.10
Ground Coverage	3,505.15	3,076.95
Common Plot Area	637.30	645.16
Max. building height	30	24.85

<table>
<tr><td></td><td>during construction phase</td><td>• Waste water generation quantity (KL/day): 16
• Mode of disposal: Wastewater generated will be discharged into the drainage line of Ahmedabad Municipal Corporation.
• Details of reuse of water, if any: In Gardening</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day):107.60
• Source of water: AMC
• Waste water generation quantity (KL/day):84.08
• Mode of disposal: Wastewater generated will be discharged into the 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 connection already 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>4,249</td><td>4,249</td><td>Will be reused for gardening & landscape development</td></tr>
<tr><td>Other excavated earth</td><td>2,125</td><td>2,125</td><td>Will be completely reused for back filling the low lying areas.</td></tr>
<tr><td>Construction debris</td><td>411</td><td>411</td><td>Will be reused for plinth filling & internal road sub base.</td></tr>
<tr><td>Steel scrap</td><td>973</td><td>973</td><td>Will be sold to vendors.</td></tr>
<tr><td>Discarded packing materials</td><td>2,125</td><td>2,125</td><td>Will be sold to vendors.</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 & wet waste</td><td>74</td><td>18 nos. of bins of 80 lit capacity will be provided at various locations.</td><td>The community bins are regularly emptied by AMC.</td></tr>
</table>
• Details of segregation if to be done: No
• Capacity and no. of community bins to be placed within premises: 18 nos. of bins of 80 lit capacity will be provided at various locations.
• Landfill site where waste will be ultimately disposed by local authority: at the nearby MSW dumping/landfill site of AMC.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR:</td></tr>
</table>

		3,617.57 m^2 • Parking area requirement for residential units as per GDCR: 3,316.33 m^2 • Parking area requirement for Commercial units as per GDCR: 301.24 m^2 • Total number of CPS requirement for the project as per NBC :162 • Number of CPS requirement for residential units as per NBC: 138 • Number of CPS requirement for commercial units as per NBC:24 • Total Parking area provided (m^2) & No. of ECS: 7,474.21 m^2 & 253 CPS • Parking area provided in basement (m^2) & No. of ECS: 4,476.72 m^2 & 140 CPS • Parking area provided in hollow plinth (m^2) & No. of ECS: 2,340.05 m^2 & 84 CPS. • Parking area provided as open surface (m^2) & No. of ECS: 657.64 m^2 & 29
16.	Traffic Management	• Width of adjacent public roads: The access to the project site is from the 12.19 m wide T.P. road in West direction and 18.28 m wide T.P. road in North direction. • Number of Entry & Exit provided on approach road/s: Two gates on the 12.19 m wide T.P. road. • 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 for the plantation): 3 m • 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, use of variable frequency drive motors to optimize power requirement, rain water harvesting through ground water recharge.
18.	Energy Requirement, Source and Conservation	• Power supply: Maximum demand: 474 KW Connected load: • Source: Torrent Power Limited • Energy saving by Non-conventional Methods: Maximum use of CFL lights, use of variable frequency drive motors to optimize power requirement, solar street lighting etc. • DG Sets: No. and capacity of the DG sets: 1 x 62.5 KVA Fuel & its quantity: 12 Litre/hr
19.	Fire and Life Safety Measures	Fire 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.
20.	Details on staircase	

Type & no. of buildings	No. of floors	Floor area	No. of staircase	Width of the staircase	Travel distance (m)

A	B+G+7	564.58	1	1.60	<30	
B+C	B+H.P.+7	850.42	2	1.60	<30	
D	B+H.P.+7	429.66	1	1.60	<30	
E	B+H.P.+7	564.58	1	1.60	<30	

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: • No. & dimensions of RWH tank(s) : • No. and depth of percolations wells: 2 Nos. • Details on Pre-treatment facilities: Oil & grease removal & filtration.
22.	Green area details	• Tree covered area (m^2) : 392.79 • Area covered by shrubs and bushes (m^2): included in lawn covered area. • Lawn covered area (m^2): 504.72 • Total Green Area (m^2): 897.51 • Green Area % of plot area: 14.08% • No. of trees and species to be planted: 96 nos. of trees will be developed within the project site.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	---
24.	Proposed dust control measures during the construction phase	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.
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, maximum use of Portland Pozzolona Cement 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.	Village form no. 7 submitted by them shows that the N.A land for residential & commercial use is in the name of M/s Vastu Realty, a partnership firm, through applicant Mr. Vipulkumar N. Polra.

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

1. Provision of two nos. of staircases in the buildings having floor area more than 500 m^2.
2. 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.

3	Shanti Educational Initiative Ltd.	S. No. 256/2, F.P.No.120, O.P.No.120, Makarba, Vejalpur, Ahmedabad.

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

Sr. No.	Particulars	Details
1.	Proposal is for	New Project
2.	Type of Project	Corporate House
3.	Project/Activity No. [8(a)or 8(b)]	8(a)
4.	Name of the project	Corporate House for Shanti Educational Initiatives Ltd.
5.	Name of Developer	"Shanti Educational Initiatives Ltd"
6.	Estimated Project Cost (Rs. in Crores)	Rs. 105 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No any construction activity has been initiated at site.
8.	Project Details	• Land / Plot Area (m^2): 4,380.0 • FSI area (m^2):12,472.57 • Total BUA (m^2): 21,690.13 | | Permissible | Proposed | | FSI Area (m^2) | 15,536.35 | 12,472.57 | | Ground Coverage (m^2) | -- | 1,554.33 | | Common Plot Area (m^2) | 438.0 | 438.18 | | Max. building height (m) | 45 | 44.59 |
9.	Building Details	• No. of Buildings: 1 • No. of Blocks:1 • Scope of buildings/blocks: 2 level basement + ground floor + 11 floors. • No. & size of Residential Units: --- • No. & type of Commercial Units: Corporate House • Details of amenities if any: Following Amenities will be provided at each floor: ➢ Drinking Water facility at each floor ➢ Sanitation facility at each floor ➢ First –Aid facility at each floor ➢ Fire fighting system at each floor ➢ Inter-Communication facility at each floor ➢ Common solid waste disposal facility at each floor
10.	No. of expected residents / users	Fixed Population considered for the project: 400 to 500 persons. Floating population: 20 persons per day.
11.	Water & waste water details during	• Water requirement (KL/day): 27.5 • Source of water: Local water supplier / tanker

<table>
<tr><td></td><td>construction phase</td><td>• Waste water generation quantity (KL/day): 2
• 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>• Total water requirement (KL/day): 66.0
• Fresh water requirement (KL/day): 22.0
• Source of water: Local water supplier / tanker
• Waste water generation quantity (KL/day): 50
• Mode of disposal: The domestic wastewater (sewage) will be treated in a STP and treated sewage will be reused in flushing.
• In case of STP provision, capacity of STP: 60 KL
• STP Technology: STP comprising of primary, secondary & tertiary treatment facilities.
• Purposes for treated water utilization: Flushing
• Quantity of treated water to be reused: Treated sewage will be completely reused in flushing. In case of emergency treated sewage may be discharged into existing drainage system of AMC.
• Provision of dual plumbing system (Yes/No): Yes
• Quantity and type (treated/untreated) of water to be discharged: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be completely reused in flushing. In case of emergency treated sewage may be discharged into existing drainage system of AMC.
• Mode of disposal: Treated sewage will be completely reused in flushing. In case of emergency treated sewage may be discharged into existing drainage system of AMC.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Source of water: Local water supplier / tanker
The sewage will be treated in the proposed onsite STP and treated sewage will be completely reused in flushing. In case of emergency treated sewage may be discharged into existing drainage system of AMC.</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>2,000</td><td>2,000</td><td>Will be stored onsite and used for development of greenbelt.</td></tr>
</table></td></tr>
</table>

Other excavated earth	15,500	15,500 m^3 will be reused for re-filling of foundation & plinth, green belt and levelling low lying areas at project site itself, excess (if any) will be sent to another site where need may be exist.	Will be used for re-filling of foundation & plinth, green belt and levelling low lying areas.
Construction debris	500	500	Will be used for levelling, roads, pavements etc.
Steel scrap	What so ever	--	Will be returned to supplier or sold to scarp dealer / end users.
Discarded packing materials	What so ever	--	Will be returned to supplier / sold to authorized recycler

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	312 kg/day	Two separate bins (one for dry and one for wet waste) each of 10 L capacity will be provided to each unit. These bins will be emptied in to community bins to be provided at various locations.	The said common community bins will be regularly emptied by AMC
Wet waste			
STP Sludge	What so ever	Will be properly collected in HDPE bag and stored in a separate designated place.	Will be used as soil conditioner within our premises.

- Details of segregation if to be done: Two separate bins (one for dry and one for wet waste) each of 10 L capacity will be provided to each unit.
- Capacity and no. of community bins to be placed within premises: 20 community bins of 80 lit capacity will be provided at various locations
- Landfill site where waste will be ultimately disposed by local authority: At nearby MSW collection point of AMC.

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 6,236.29 m^2 • Parking area requirement for Commercial units as per GDCR: 6,236.29 m^2 • Total number of CPS requirement for the project as per NBC : 518 CPS • Number of CPS requirement for commercial units as per NBC: 518 CPS • Total Parking area provided (m^2) & No. of CPS: 9,131.0 m^2 & 523 CPS • Parking area provided in basement (m^2) & No. of CPS: 5,386.0 m^2 in two level basement & 168 CPS. • Parking area provided in hollow plinth (m^2) & No. of CPS: 1,509 m^2 & 54 CPS • Parking area provided as open surface (m^2) & No. of ECS: Open space margin: 2,236 m^2 & 97 CPS • Parking area provided as mechanical parking in basement(m^2) & No. of CPS: 5,386.0 m^2 in two level basement & 168 CPS. • Parking area provided as mechanical parking in hollow plinth (m^2) & No. of CPS: 1,008.0 m^2 & 36 CPS.
16.	Traffic Management	• Width of adjacent public roads: 18 m wide road • Width of Entry & Exit provided on approach road/s: 6 m • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • 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: Main internal approach road 6 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, maximum use of Portland Pozzolona Cement (PPC) for contains high amount of fly ash, rainwater harvesting by recharging the ground water table with provision for percolation wells, provision of PVC electrical boards, aluminum window frame instead of wood, provision of STP & reuse of treated sewage etc.
18.	Energy Requirement, Source and Conservation	• Power supply: M/s. UGVCL. Maximum demand: Estimated requirement During construction phase: 85 kW and During operation phase: 1.7 MW. Connected load: Will be applied once EC will be granted • Source: M/s.UGVCL. • Energy saving by Non-conventional Methods: Maximum use of LED lights in each block, use of variable frequency drive motors to optimize power consumption, use of solar lighting in common areas, use of building material having lower U-value and the insulating material having higher R-value to have optimum energy performance, maximum use of light and silent colours in the building

		envelope so that UV absorption is reduced and associated cooling requirements are minimized. • DG Sets: No. and capacity of the DG sets: 1 x 500 KVA Fuel & its quantity: HSD. 100 lit./hr
19.	Fire and Life Safety Measures	• Nearest fire station is Bodakdev fire station which is approx. 6 km. Time required for the fire tender to reach at the project site is 15-20 minutes. • During operation phase: Two underground fire water storage tanks each of 75 KL capacity, fire extinguishers, sprinkler system, refuge area/ balcony [8.31m x 1.87 m] at 4^{th} and 7^{th} floor, external fire hydrant system, separate power set-up for operation of the fire fighting pumps etc. Two yard hydrants, one fire service inlet, one hydrant outlet, one hose reel, one set of on/off switch for the fire pump and a set of extinguishers (one unit of 6 kg Dry Chemical Powder (DCP), one unit of 4.5 kg of CO_2)inside the building for every 1000 sq.mt. floor area, glow signs to guide people to escape in case of fire during darkness at all exits, corridors and staircases, all security personnel attending the building will be trained in fire fighting as a part of their job specification etc. • Carbon Mono Oxide Sensor will be provided for Basements • During construction project: 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 practice, 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.
20.	Details on staircase	

No. of floors	Floor area (Max. Floor Area of Ground Floor)	No. of staircase / Lifts	Width of the staircase	Travel distance (m)
2B+G+11	1,554.33 m^2	2 staircases 8 lifts	2.06 m	Approx. 28 m

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: depth of water level 40m as per CGWB report • No. & dimensions of RWH tank(s): 2 RWH structures of 0.45 m dia. will be provided. • No. and depth of percolations wells : 2 RWH structures, • 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.
22.	Green area details	• Tree covered area (m^2) : 260 • Area covered by shrubs and bushes (m^2):-- • Lawn covered area (m^2): -- • Total Green Area (m^2): 260 • Green Area % of plot area: Approx. 6 % • No. of trees and species to be planted: Local species such as Ashok, Neem, Gulmohar etc. will be preferred for plantation.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Total Rs. 20 Lacs has been allocated towards Environmental Management Plan specifically for purposes like rain water harvesting & ground water recharge, energy & water conservation measures, greenbelt development and domestic waste management etc. during operation phase and Rs. 4.5 lacs for air & noise pollution control, waste management etc. during construction phase.
24.	Dust control measures	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.
25.	Eco friendly building materials	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.
26.	Facilities to be provided to the construction workers	Sanitation facilities, drinking water, municipal solid waste collection facility etc.

During the meeting, it was found that the N.A order for commercial use of the project site submitted by them does not reflect that the land is in the name of Shanti Educational Initiatives Limited. At this the person authorized by the project proponent replied that the land owners are the directors of Shanti Educational Initiatives Limited. The project proponent was asked to barricade the project site during construction phase. During the meeting, after detailed discussion, it was decided to appraise the project only after satisfactory submission of the following:

1. Project plans also showing building wise, floor wise built up area, FSI area details & plot area details.
2. Details of mechanical parking to be provided (also including its operation, maintenance, energy consumption, appointing trained personnel's etc.) in the basement & hollow plinth along with the feasibility of providing mechanical parking considering the basement & hollow plinth height. Details on realistic parking area provision based on the actual parking area available as open surface parking within premises.
3. Source of water supply during operation phase of the project along with the supporting documents.

4. Copy of permission obtained from Airports Authority of India.
5. Floor area details on each floor of commercial building, requirement & provision of staircases as per the requirement of GDCR & NBC norms, details on travel distance of the staircase from the farthest corner of the floor as well as between the two consecutive staircases.
6. Document of Shanti Educational Initiatives Limited incorporated with the Registrar of Companies showing the name of its directors.
7. 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.

4	Shyam Sangini 1-(B) (Warehouse Textile Market Project)	Block No. 25,27/A, 215,48, O.P. No. 102, 183, 185, & 171/a, F.P. 102, 183, 185, & 171/1, Surat.

The project was earlier taken up in the meeting of SEAC held on 17/02/2016. During the meeting held on 17/02/2016, it was presented that they have obtained NOC from Airports Authority of India for building height of 80.0 m above the ground level. After discussing various aspects of the project in detail, it was decided to further appraise the project only after submission of the following:

1. Exact source of water supply during the construction & operation phase of the project and permission / letter of intent from the concerned authority for providing water supply, drainage connection & municipal solid waste collection facility to the project. Details on source of availability of water to the gram panchayat, details of pumping station, STP, final disposal point of sewage by the gram panchayat.
2. Complete management plan of treated sewage during the operation phase including quantity wise break up of treated sewage utilization, design drawing of dual plumbing system, mode of final disposal, management plan during the monsoon season etc.
3. Details of mechanical parking to be provided (also including the details like its operation, maintenance, energy consumption, appointing trained personnel's etc.) in the basement along with the feasibility of providing mechanical parking considering the basement height.
4. Layout plan showing provision of adequate margin all round the periphery for easy unobstructed movement of fire tender without reversing.
5. Calculation and provision of minimum fire water requirement based on fire study as well as the availability of external fire fighting facility. Plans showing location of automatic sprinklers to be provided in the buildings.
6. Copy of permission from Urban Development & Urban Housing Department, Gandhinagar for the proposed FSI of 3.9.
7. Type of activities to be carried out in the proposed commercial units. Undertaking stating that no any kind of manufacturing activity shall be allowed in the commercial units of the proposed project and they will not sold / allot any commercial unit for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.
8. Land possession documents showing ownership of the land by the applicant / project proponent. Copy of permission obtained for non agricultural use of the project site or correspondences made in this regard.

Project proponent submitted the above mentioned details and undertaking vide their letter dated

20/04/2016.

Project proponent along with their expert / consultant attended the meeting and the project was appraised based on the details submitted as well as facts presented before the committee.

It was presented that water will be supplied to the project by Kumbhariya Gram Panchayat. A letter from Kumbhariya Gram Panchayat has been submitted. Total water requirement for the project will be 86 KL/day, out of which fresh water (50 KL/day) will be met through water supply from Kumbhariya Gram Panchayat and remaining water requirement of 36 KL/day will be met through treated sewage. Sewage – 65.0 KL/day to be generated will be treated in the proposed onsite STP. Treated sewage- about 36.0 KL/day will be used for gardening & flushing purpose within premises and remaining quantity of treated sewage will be given to the farms in vicinity. During the monsoon season, when treated sewage utilization for gardening & irrigation purpose is not possible, the treated sewage will be stored in the fire water tank of 300 KL capacity. Details of mechanical parking submitted by them were discussed during the meeting. It was presented that fully automatic mechanical parking system will be installed and operation & maintenance contract will be awarded to the supplier itself. Basement height will be 4.27 m to accommodate the mechanical parking. Layout plan showing provision of open peripheral margin of 4.5 to 6 m has been submitted. It is proposed to provide underground fire water tank of 300 KL capacity and automatic sprinkler system in entire building. They have applied for getting permission for the proposed FSI of 3.9 and the permission from Urban Development & Urban Housing Department is awaited. They have submitted a copy of index from office of Sub-registrar for block no. 25 which shows that the N.A land for commercial use is in the name of applicant & others. Copy of village form no. 7 & 12 for block numbers 215 & 27/A, submitted by them show that the land, liable for payment of N.A premium, is in the name of applicant & others. Land of block numbers 48/A & 48/B is in the name of land owners and the land owners have given authorization to applicant on a stamp paper of Rs. 100.

Salient features of the project are as under:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/35260/2015]
2.	Type of Project	Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Shyam Sangini1(B) Warehouse textile market project
5.	Name of Developer	Mr. Jigneshbhai Patel
6.	Estimated Project Cost (Rs. In Crores)	Rs. 90 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): 10,379
• FSI area (m^2): 41,485.18
• Total BUA (m^2):65,415.89
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>41,516.00</td><td>41,485.18</td></tr><tr><td>Ground Coverage (m^2)</td><td>5,189.5</td><td>4,732.88</td></tr><tr><td>Common Plot Area (m^2)</td><td>2,108.75</td><td>2,108.75</td></tr><tr><td>Max. building height (m)</td><td>65</td><td>53.6</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 + 9 floors
• No.& size of Residential Units: ---
• No. & type of Commercial Units:449 units
• Details of amenities if any:</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>2020</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 30.0
• Source of water: water supply from Gam Panchayat
• Waste water generation quantity (KL/day): 2.28
• Mode of disposal: Soak Pit</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 50.0
• Source of water: water supply from Gam Panchayat & packaged drinking water supplier
• Waste water generation quantity (KL/day): 65.0
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purpose within premises at the maximum extent possible and remaining quantity of treated sewage will be disposed in to Gam panchayat drain/ recycle for agriculture purpose.
• In case of STP provision, capacity of STP: - 100.0 KL/day
• STP Technology: - FMR technology
• Purposes for treated water utilization: Gardening & flushing.
• Quantity of treated water to be reused:1.Gardening (KL/day): 5.0
2. Flushing (KL/day): 31.0
• Provision of dual plumbing system (Yes/No): -Yes
• Quantity and type (treated/untreated)of water to be discharged: Treated sewage will be recycled back for flushing & gardening purpose in-house and excess treated sewage will be discharge in to gampanchayat drainage or given to nearby farmer for agriculture purpose.
• Mode of disposal: as above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>---</td></tr>
<tr><td>14.</td><td>Solid waste</td><td>Construction Phase:</td></tr>
</table>

	Management	

	Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
Top Soil	4,365.0	800.0	800 m^3 of excavated top soil will be utilized for greenbelt development and remaining quantity of top soil will be utilized for back filling
Other excavated earth	7,455.66	990.0	990.0 m^3 of excavated soil will be utilized for back filling within site. Excess soil will be utilized at other project site after obtaining necessary permission, if any.
Construction debris	15kg/day	Nil	Sold off to recyclers/ vendors.
Steel scrap	15kg/day		
Discarded packing materials	6kg/day		

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	306 kg/day	Into separate bins to be provided to each unit and the bins will be emptied into the community bins to be provided within premises.	Final disposal at Khajod Disposal Site
Wet waste	300 kg/day		

- Details of segregation if to be done: Separate bins for dry and wet waste will be provided to each unit.
- Capacity and no. of community bins to be placed within premises:1 bin having capacity of 400 kg for dry waste and 1 bin of 315 kg for wet waste will be provided to the building.
- Landfill site where waste will be ultimately disposed by local authority: at Khajod Disposal Site

15.	Parking Details	• Total parking area requirement for the project as per GDCR:

		20,742.59 m^2 • Parking area requirement for Commercial units as per GDCR: 20,742.59 m^2 • Total number of CPS requirement for the project as per NBC :166 • Number of CPS requirement for commercial units as per NBC:166 • Total Parking area provided (m^2) & No. of ECS: 21,375.73 m^2 and 700 ECS • Parking area provided in basement (m^2) & No. of ECS: 16,415.34 m^2 and 513 ECS • Parking area provided in hollow plinth (m^2) & No. of ECS:1,428.34 m^2 and 51 ECS • Parking area provided as open surface (m^2) & No. of ECS: 2,108.75 m^2 and 92 ECS • Parking area provided (Mechanical Parking) (m^2) & No. of ECS:1,423.30 m^2 and 44 ECS
16.	Traffic Management	• Width of adjacent public roads: 60 m & 18 m wide TP roads. • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • Width of Entry & Exit provided on approach road/s:7.0 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation):4.5 to 6 m • Width of all internal roads: 6 m
17.	Details of Green Building measures proposed.	Provision to install aerated coke (foam type) in wash basins, kitchen, low flush water closets in toilet and pressure reducing valves in water pipeline, rain water harvesting & ground water recharge, maximum utilization of natural light, roof-top thermal insulation, CFL lighting fixtures in the common areas, appropriate design to shut out excess heat and gain loss, use of solar energy in external lighting (landscape lighting), use of aerated blocks etc.
18.	Energy Requirement, Source and Conservation	• Power supply: Maximum demand:3800 KW Connected load:4000 KW Source: DGVCL • Energy saving measures: Maximum utilization of natural light, roof-top thermal insulation, CFL lighting fixtures in the common areas, appropriate design to shut out excess heat and gain loss, use of solar energy in external lighting (landscape lighting), use of aerated blocks etc. • DG Sets: No. and capacity of the DG sets:5 x 132 KVA Fuel & its quantity: diesel (10 Liter/h) Note : - D.G. Sets will be used in case of power failure or fire emergency
19.	Fire and Life Safety Measures	• During the construction phase: Fire extinguishers at various locations and easily accessible, to keep printed board showing important telephone number of fire, ambulance, hospital etc. training

<table>
<tr><td></td><td></td><td>to the workers on safety aspects, first aid box at identified places within premises, doctor & ambulance services, provision of PPE'S like helmet, gumboot/safety shoes, safety net, safety goggles etc.
• During the operation phase: Fire extinguishers at each floor, hose reel at each floor, wet riser opening at each floor, manually operated electric fire alarm system, terrace water storage tank of 25 KL, underground fire water storage tank of 300 KL, smoke detectors, fire sprinklers etc.
• Nearest fire station: Magob fire station.
Distance from project site: 4 km.</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</th><th>Travel distance (m)</th></tr>
<tr><td>1</td><td>9</td><td>4,248.70</td><td>4</td><td>2.01 m</td><td>< 30 m</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 19 m
• No. and depth of percolations wells :3
• Details on Pre-treatment facilities :only roof top rainwater harvesting is proposed.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2): 600.0
• Area covered by shrubs and bushes (m^2): 250.0
• Lawn covered area (m^2): 400.0
• Total Green Area (m^2): 1,250.0
• Green Area % of plot area: 9.63%
• No. of trees and species to be planted: 350 trees of local species.</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan
(Rs. in lacs)</td><td>• Green belt development : 60Lacs
• Drainage and rain water harvesting: 50 lacs
• Sewage treatment plant: 70 Lacs
• Solar and energy saving: 30Lacs
• Total: 210 Lacs</td></tr>
<tr><td>24.</td><td>Proposed dust control measures during the construction phase</td><td>Loading & transportation in covered trucks, covered shed provided for cement unloading activity, temporarily wind screen around project site, sprinkling of water on roads and in vicinity of storage area.</td></tr>
<tr><td>25.</td><td>Eco friendly building material usage details.</td><td>Fly ash brick, aerated blocks, paving blocks, RMC, lead free paints etc.</td></tr>
<tr><td>26.</td><td>Basic amenities to be provided to construction workers.</td><td>Drinking water & tap water, sanitation facilities, first aid box, free medicines, doctor service, PPEs etc.</td></tr>
<tr><td>27.</td><td>Documents related to land possession.</td><td>Copy of index from office of Sub-registrar for block no. 25 shows that the N.A land for commercial use is in the name of applicant & others. Copy of village form no. 7 & 12,m for block numbers 215 & 27/A, submitted by them show that the land, liable for payment of N.A</td></tr>
</table>

		premium, is in the name of applicant & others. Land of block numbers 48/A & 48/B is in the name of land owners and the land owners have given authorization to applicant on a stamp paper of Rs. 100.

During the meeting, while discussing about the feasibility of source of water supply during the operation phase of the project, the project proponent replied that the project site falls in the Town Planning Scheme of Surat Urban Development Authority and water supply as well as drainage connection will be available to the project in near future. Further it was found that the parking area provision for the project is not provided as per the requirement of NBC norms considering the commercial activities to be carried out. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Copy permission obtained from Urban Development & Urban Housing Department for the proposed FSI.
2. Status of availability of water supply & drainage connection of SUDA to the project along with the permission or letter of intent from SUDA in this regard.
3. Documents showing ownership of the land of block number 48 by the project proponent.
4. Details on the parking area provision for the proposed project as per the requirement of NBC norms considering the type of the commercial activities to be carried out.

5	Lombodar Enterprise (Omkar-11)	Plot No. R.S. No. 204, Moje: Piraman, Ta. Ankleshwar, Dist. Bharuch.

Project proponent has applied for obtaining Environmental Clearance for the building construction project vide proposal no.SIA/GJ/NCP/35199/2015 dated 20/12/2015 and the project was taken up in the meeting of SEAC held on 17/02/2016. During the meeting held on 17/02/2016, it was found that the construction activity for the proposed project has already been started without obtaining prior Environmental Clearance. While asking by the committee, it was replied that they have got construction permission for built up area of less than 19,000 m^2 from the Town Planning department and as it does not attract the provisions of EIA notification 2006, they have started construction activity for the project. Now they are planning to develop the project with built up area of 32,318.34 m^2.

During the meeting, after detailed discussion, it was decided to consider the project for screening & scoping / appraisal only after submission of the following:

1. Project plans approved by concerned authority for built up area of 19,000 m^2 and a copy of permission obtained for construction of the same from concerned authority.
2. Reasons & justification for increase in the built area from 19,000 m^2 to 32,318.34 m^2.
3. Layout plan showing the existing constructed buildings & proposed buildings in different colour codes.
4. Date of starting the construction activity at the project site. Details of the construction work completed in terms of the percentage of the total construction area of the project.
5. Detailed justification for initiating the construction activity for the proposed project with all the relevant supporting documents and as to why the construction activity started by them should not be considered as violation of the EIA Notification-2006.
6. Recent photographs showing the date and current status of the project site.

Project proponent submitted the above mentioned details on 21/06/2016. It was mentioned that in the 2011, construction for two separate project was started based on the two separate plans passed by Town Planning Department of Bharuch for two commercial projects with built up area of 7,385.13 m^2 & 2,525.30 m^2 having ground floor + 1st floor structures on plot area of 12,090.0 m^2 & 7,334.0 m^2 respectively. Afterwards when Bharuch Ankleshwar Urban Development Authority (BAUDA) came into existence, they have decided to amalgamate both the above projects in order to get benefit of additional FSI under the revised GDCR of BAUDA. After availability of the additional FSI, total built up area of the project increased from 9,910.43 m^2 (7,385.13 m^2 + 2,525.30 m^2) to 32,318.34 m^2, for which the plans have been approved by BAUDA on 23/12/2015. As per new planning there will be 5 buildings comprising of 116 residential units & 471 commercial units. Scope of 1 residential & commercial building will be ground floor (parking & shops) + 3 floors, scope of 3 residential buildings will be hollow plinth + 4 floors & scope of 1 commercial building will be basement + ground floor + 3 floors.

The project proponent attended the meeting. During the meeting, the committee observed that photographs submitted by them show that commercial building with ground floor + 3 floors have already been constructed. While discussion during the meeting, it was replied by the project proponent that when BAUDA was declared on 7th January 2012, they decided to revise the project plan by amalgamation of the two projects. But GDCR of BAUDA was finalized after two years i.e on 1st February 2014. Meanwhile, they continued with the construction work in ignorance of the applicability of provisions of EIA Notification – 2006 to their project and completed construction work of the commercial building. Now they have completely stopped the construction work and committed to restart the same only after obtaining Environmental Clearance and that too in line of the conditions stipulated in the Environmental Clearance order.

The matter was discussed during the meeting and the committee was of the view the project proponent, though not wilfully and completely in ignorance of the law, but violated the provisions of the EIA Notification-2006 by continuing with the construction activity for the project with revised planning comprising of built area 32,318.34 m^2. It was unanimously decided to consider the project only based on the outcome of the draft Notification No. S.O.1705(E) dated 10/05/2016 of MoEF&CC as and when get finalized.

6.	Sky View	Survey No. 551, Vill.Argama, Ta. Vagra, Dist. Bharuch.

The project was taken up in the meeting of SEAC held on 13/04/2016. During the meeting held on 13/04/2016, it was observed that parking requirement & provision for the proposed restaurant has not been considered in the total parking area provision for the project. The project proponent was suggested to increase the parking area provision and to make use of solar energy for the proposed project. After detailed discussion, it was decided to appraise the project further only after submission of the following:

1. Exact source of water supply and availability of drainage connection during operation phase of the project and permission from concerned competent authority for providing water supply, drainage connection & municipal solid waste collection facility.
2. Explore the possibility of increasing the parking area provision for the proposed project and revised details on parking area provision, considering the increased parking space as well as parking requirement for the proposed restaurant, with back up calculation & parking plans.
3. Details of soil excavation / filling required for the project along with its quantification based on backup calculations. Details with respect to proposed use / disposal of excavated soil. Plan for

management, use and disposal of construction debris including excavated materials during the construction phase. Details of top soil management plan during construction phase

4. Details with respect to the quantity of garbage / Municipal Solid waste(biodegradable & recyclable waste) generation, its management and disposal.
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. 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.
7. Details on the fire fighting facilities to be provided for the proposed commercial buildings considering the type of activities to be carried out in the commercial units.
8. Details on use of solar energy in the form of solar lights, solar water heaters, solar panels etc.

Project proponent submitted the above mentioned details along with the revised Form – 1 & Form – 1A vide their letters dated 07/06/2016 & 20/06/2016.

Project proponent along with their expert / consultant attended the meeting. During the meeting, the project was appraised based on the information submitted as well as facts presented before the committee.

It was presented that as per revised planning the built up area & FSI area of the project will be decreased to 39,565.39 m^2 & 26,877.64 m^2 respectively. Number of residential units will be 252 instead of 288 proposed earlier. Number of shops & offices will be 68 & 54 respectively. A hotel with 158 rooms & a restaurant will also be there in the proposed project. Water supply & drainage connections will be provided by Gujarat Petroleum Chemicals & Petrochemicals Special Investment Regional Development Authority (GCPCSIRDA) and a letter from GCPCSIRDA has also been submitted in this regard. Parking area of 9,770.24 m^2 [3,114.18 m^2 in basement + 2,633.16 m^2 in hollow plinth + 3,747.38 m^2 as open surface parking] equivalent to 351 CPS will be provided. It was presented that the top soil & excavated earth to be generated will be completely used within premises for gardening & back filling purpose. Construction debris will be used as sub-base of the internal roads. Municipal solid waste to be generated will be finally disposed at the MSW collection / landfill site of Bharuch Municipal Corporation. Details of the proposed Environment Management Plan has been submitted and it was presented that budget of Rs. 50 – 65 lacs will be used for the proposed EMP. Green belt will be developed on area of 2,201.02 m^2 comprising of 1,297.02 m^2 lawn covered area & 904.0 m^2 tree covered area with 226 trees of local species. It is proposed to provide solar street lights and solar water heaters for hotel rooms.

Salient features of the project are as under:

Sr. No.	Particulars	Details
1.	Proposal is for	New project [SIA/GJ/NCP/33350/2015]
2.	Type of Project	Residential + Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Sky View

<table>
<tr><td>5.</td><td>Name of Developer</td><td>Sky Investment & Developers.</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>24.46 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) : 15,040.0
• FSI area (m^2) : 26,877.64
• Total BUA (m^2) : 39,565.39
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>27,072.0</td><td>26,877.64</td></tr><tr><td>Ground Coverage (m^2)</td><td>4,512.0</td><td>4,286.06</td></tr><tr><td>Common Plot Area (m^2)</td><td>1,504.0</td><td>2,201.02</td></tr><tr><td>Max. building height (m)</td><td></td><td>25.65</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings : 05
• No. of Blocks : 3 Residential + 2 Commercial
• Scope of building/blocks: Residential buildings – hollow plinth + 7 floors. Commercial buildings – basement + ground floor + 7 floors.
• No. & size of Residential Units: 252 Nos. Flats
• No. & type of Commercial Units : 68 Nos. of Shops, 54 Offices, 1 Restaurant, 1 hotel with 158 rooms, 2 conference rooms.
• Details of amenities if any : --</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>1816 Nos.</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 16.3
• Source of water: Borewell water
• Waste water generation quantity (KL/day): 5.0
• Mode of disposal: Into septic tank through 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): 173.73
• Source of water: water supply from GPCPSIRDA.
• Waste water generation quantity (KL/day): 137.95
• Mode of disposal: Disposed into drainage system of GPCPSIRDA.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>At present there water supply and drainage lines are not available at the project site.</td></tr>
</table>

<table>
<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>18,859.19</td><td>11,005.10</td><td rowspan="3">Top soil will be used for greenbelt development. Excavated earth, remaining quantity of top soil & construction debris will be used for land filling and roads within premises</td></tr>
<tr><td>Other excavated earth</td><td>61965.91</td><td>69820.0 [7854.09 m3 top soil + 61965.91 m3 excavated earth]</td></tr>
<tr><td>Construction debris</td><td>Approximately 30 MT</td><td>2,000</td></tr>
<tr><td>Scrap Steel</td><td>Approximately 15 MT</td><td>-</td><td rowspan="2">Sold to Recycler</td></tr>
<tr><td>Discarded packing materials</td><td>Approximately 2 – 5 MT</td><td>-</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>1,080.0</td><td>Into collection bins</td><td>The collected MSW will be send to landfill site/ collection point for MSW of Bharuch Municipal Corporation (BMC).</td></tr>
</table>

Details of segregation if to be done: No
Capacity and no. of community bins to be placed within premises:70 nos. of 80 lit capacity
Landfill site where waste will be ultimately disposed by local authority: at the MSW landfill / MSW collection point of BMC.
</td>
</tr>
<tr>
<td>15.</td>
<td>Parking Details</td>
<td>
Total parking area requirement for the project as per GDCR: 8,701.77 m^2
Parking area requirement for residential units as per GDCR: 3,179.96 m^2
Parking area requirement for Commercial units as per GDCR: 5,521.81 m^2
Total number of CPS requirement for the project as per NBC: 257 CPS
Number of CPS requirement for residential units as per NBC: 144 CPS
Number of CPS requirement for commercial units as per NBC: 131 CPS
</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td>• Total Parking area provided (m^2) & No. of ECS: 9,770.24 m^2, 351 CPS
• Parking area provided in basement (m^2) & No. of ECS: 3,114.18 m^2, 97 CPS
• Parking area provided in hollow plinth (m^2) & No. of ECS: 2,633.16 m^2, 94 CPS
• Parking area provided as open surface (m^2) & No. of ECS: 3,747.38 m^2, 162 CPS</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 60 m wide proposed road.
• Number of Entry & Exit provided on approach road/s: 2 gates will be provided.
• Width of Entry & Exit provided on approach road/s: 12 & 9 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: 12 m, 9 m & 7.5 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Transformers & motors with minimum efficiency of 50%, use of CFL lights in common areas, use of light colours to reduce the light absorption and minimize the cooling requirement, rain water harvesting through ground water recharge etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 10 HP during construction phase and 400 HP during operation phase
Connected load :
• Source: Dakshin Gujarat Vij Company Limited.
• Energy saving measures: Transformers & motors with minimum efficiency of 50%, use of CFL lights in common areas, use of light colours to reduce the light absorption and minimize the cooling requirement etc.
• DG Sets: Not proposed.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Overhead tank of 35 KL on each building, fire extinguishers, fire hydrant system etc. will be provided.</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^2)</th></tr>
<tr><td>A (Comm.)</td><td>G+7</td><td>765.51</td><td>2</td><td>2.0</td><td><30</td></tr>
<tr><td>B (Comm.)</td><td>G+7</td><td>621.91</td><td>2</td><td>2.0</td><td><30</td></tr>
<tr><td>3 Resi. Buildings</td><td>H.P+7</td><td>625.64</td><td>3</td><td>2.0</td><td><30</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• No. & dimensions of RWH tank(s): 4 Nos.
• No. and depth of percolations wells: 4 Nos.
• Details on Pre-treatment facilities: Filtration & removal of oil & grease.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2): 904.0
• Area covered by shrubs and bushes (m^2): included in lawn covered area.
• Lawn covered area (m^2): 1,297.02</td></tr>
</table>

		• Total Green Area (m^2): 2,201.02 • Green Area % of plot area:13.7 • No. of trees and species to be planted: 226 trees of local species
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Environment Management Plan with budget allocation of Rs. 50-65 lacs has been proposed.
24.	Proposed dust control measures during the construction phase	Dust suppression by water sprinkling, covered shed for cement unloading activity, PUC compulsion for vehicles, covering the construction material during storage & transportation, barricading the project site etc.
25.	Eco friendly building material usage details.	Use of RMC, flay ash bricks etc.
26.	Facilities to be provided to the construction workers	Drinking water, Personal Protective Equipments, sanitation facilities etc.
27.	Documents related to land possession	Village form no. 7 submitted by them shows that the N.A land for residential & commercial use is in the name of applicant Mr. Patel Imtiyaz Ibrahim and others.

During the meeting, the project proponent was asked to increase the parking area provision for the project based on the actual parking requirement as per the NBC norms for each individual component to come in the proposed project. Further it was found that the details of fire fighting facilities submitted by them were not found satisfactory considering the type of the activities to be carried out in the proposed project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Details on the parking area provision, with complete back up calculation, for the project based on the actual parking requirement as per the NBC norms for each individual component of the project. Basement parking plan & parking plan showing parking space provision in hollow plinth & as open surface parking with different colour codes.

2. Details on the proposed fire fighting facilities for the proposed project considering the requirement as per GDCR & NBC norms in this regard.

7.	Pushkar Hill by Shivam Infra	T.P. No. 1 (Khokhara), Survey No. 124, 125/P, S.P. No. 2 Of F.P. No. 100+101, Ta. Ghodasar, Dist. Ahmedabad

The project was taken up in the meeting of SEAC held on 04/05/2016. During the meeting, held on 04/05/2016, it was decided to appraise the project further only after submission of certain additional information regarding the project.

Meanwhile during the meeting of SEAC held on 25/05/2016, the committee took note of the letter dated 07/05/2016 received along with the photograph from Paryavaran Mitra stating that the building construction project, named Pushkar Hill at Ghodasar which was taken up in the SEAC meeting held on 04/05/2016, has initiated construction activity without obtaining prior Environmental Clearance.

The matter was discussed during the meeting held on 25/05/2016 and it was decided to verify the status of the project site through site visit by Gujarat Pollution Control Board.

The project site was visited through the Regional Office of Gujarat Pollution Control Board located at Ahmedabad on 20/07/2016. As per the visit report submitted vide letter no. GPCB/RO-ABD-C-103/ 543 dated 25/07/2016, it was found that from the total 8 blocks of the project, construction activity for 3 blocks has already been started. The committee viewed it very seriously that the project proponent has violated the provisions of EIA Notification – 2006 by initiating the construction activity at the project site without obtaining prior Environmental Clearance. It was unanimously decided to consider the project only based on the outcome of the draft Notification No. S.O.1705(E) dated 10/05/2016 of MoEF&CC as and when get finalized.

8.	Evercon Devlopers (Twin Stars)	Plot No.R.S. No.26/2, 27/p, Plot No. 1+1 & 2, F.P. No.31/4, 29/2, T.P. Scheme No. 7, O.P. No. 29,31/p, Viil. Nanamava, Ta. Dist. Rajkot.

The project was earlier taken up in the meeting of SEAC held on 17/02/2016. During the meeting, held on 17/02/2016, fire fighting measures proposed by them were discussed during the meeting and it was presented that automatic sprinklers will be provided in entire buildings. The project proponent was suggested to make use of solar energy in the form of solar street lights, solar water heaters, solar panels etc. After detailed discussion, it was decided to appraise the project further only after submission of the following:

1. Copy of permission obtained from Airports Authority of India for the proposed building height.
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. Layout plan showing the entry & exit gates, width of entry & exit, ramps to basement & width of ramps.
5. Floor area details on each floor of all the buildings, requirement & provision of staircases as per the requirement of GDCR & NBC norms, details on travel distance of the staircase from the farthest corner of the floor as well as between the two consecutive staircases, details of the exits and staircases on each floor in high rise buildings for evacuation from the top level to the street level along with floor wise evacuation plan in case of emergency etc.
6. Calculation and provision of minimum fire water requirement based on fire study as well as the

availability of external fire fighting facility. Plans showing location of automatic sprinklers to be provided in all the buildings. Details on provision of refuge area/ skip floor as per the requirement of NBC.

7. Land possession documents showing ownership of land of all the survey numbers / F.P.Numbers by the applicant, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site for commercial use or a copy of documents showing the correspondences made in this regard and copy of agreement made between the land owners & developers (if any).
8. Structural stability certificate showing that the buildings will be designed considering seismic zone-IV.
9. 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.
10. 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 requirement of the proposed high rise buildings of the project will be compensated by the proposed energy conservation measures.

Project proponent submitted the above mentioned details vide their 20/06/2016.

Project proponent along with their expert / consultant attended the meeting and during the meeting, the project was appraised based on the additional details submitted as well as facts presented before the committee.

Copy of application made for obtaining NOC from Airports Authority of India has been submitted. It is proposed to provide STP of 120 KL/day capacity. From the total water requirement of 153.27 KL/day, fresh water requirement of 84.43 KL/day will be met through the water supply from Rajkot Municipal Corporation and remaining water requirement of 68.84 KL/day for gardening & flushing will be met through treated sewage. Total sewage generation will be 119.61 KL/day which will be treated in the proposed STP. Treated sewage (68.84 KL/day) will be reused for gardening & flushing purpose within premises and only remaining quantity of treated sewage will be discharged into the drainage line of RMC. About Rs. 26 lacs will be spent on installation of the proposed STP. Layout plan showing the entry & exit gates, width of entry & exit, ramps to basement & width of ramps has also been submitted. It was found from the typical floor plans submitted by them that 2 nos. staircases will be provided in the buildings having 21 floors and 1 staircase in the low rise building of 3 floors. Width of all the staircases will be 2 m. It is proposed to provide underground static fire water storage tank of 200 KL capacity and terrace fire water tank of 20 KL capacity for the proposed project. N.A orders submitted for both the F.P. numbers show that the N.A land for residential use is in the name of one of the applicants. Copy of application made for obtaining N.A permission for commercial use has been submitted. Copy of structural design basis report from their structural consultant has been submitted which shows that the buildings have been designed considering all the relevant IS standards for building material & materials to be stored, imposed loads, wind load, special loads & loads combination, criteria for earthquake resistant design and other general requirements. Solar lights will be provided for the entire campus.

Salient features of the project are as under:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/33157/2015]
2.	Type of Project	Commercial Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Twin Stars
5.	Name of Developer	Evercon Developers Pvt. Ltd.
6.	Estimated Project Cost (Rs. In Crores)	50 crore
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction work has been started.
8.	Project Details	• Land / Plot Area (m^2): 9,706.0 • FSI area (m^2): 29,234.09 • Total BUA (m^2): 57,013.68 • Maximum building height (m): 70
9.	Building Details	• No. of Buildings:3 • No. of Blocks:5 • Scope of buildings/blocks: 2 buildings (4 blocks) – 2 level basement + ground floor + 21 floors, 1 building - 2 level basement + ground floor + 3 floors • No.& size of Residential Units: N.A • No. & type of Commercial Units: 328 Offices & 51 Showrooms.
10.	No. of expected residents / users	Resi.-3800 users including floating population
11.	Water & waste water details during construction phase	• Water requirement (KL/day):30.0 • Source of water: Rajkot Municipal Corporation (RMC) water supply • Waste water generation quantity (KL/day):4.5 • Mode of disposal: Into septic tank & soak pit. • Details of reuse of water, if any: N.A.
12.	Water & waste water details during operation phase	• Total water requirement (KL/day): 153.27 • Fresh water requirement (KL/day): 84.43 • Source of water: Water supply from Rajkot Municipal Corporation (RMC) • Waste water generation quantity (KL/day): 119.61 • 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 drainage line of Rajkot Municipal Corporation (RMC). • In case of STP provision, capacity of STP: 120 KL/day

<table>
<tr><td></td><td></td><td>

Purposes for treated sewage utilization: Flushing & Gardening
Quantity of treated water to be reused:
1.Gardening(KL/day): 12.55
2. Flushing (KL/day): 56.29
Provision of dual plumbing system (Yes/No): Yes
Quantity and type (treated/untreated) of water 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 drainage line of Rajkot Municipal Corporation (RMC).
Mode of disposal: as above.

</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage line will be provided by RMC.</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 Other excavated earth</td><td>65,800</td><td>65,800</td><td>Top soil will be used in developing garden area and excavated earth will be used for land levelling within premises.</td></tr>
<tr><td>Construction debris</td><td>Whatsoever</td><td>Whatsoever</td><td>Will be used as road sub base within premises.</td></tr>
<tr><td>Steel scrap</td><td>Whatsoever</td><td>Whatsoever</td><td>Will be sold to vendors.</td></tr>
<tr><td>Discarded packing materials</td><td>Whatsoever</td><td>Whatsoever</td><td>Top soil will be used in developing garden area and excavated earth will be used for land levelling within premises.</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>511</td><td>Into bins to be provided within premises.</td><td>Door to door waste collection system of RMC.</td></tr>
<tr><td>Wet waste</td><td>341</td><td>Into bins to be provided within premises.</td><td>Door to door waste collection system of RMC.</td></tr>
</table>

Details of segregation if to be done: No.
Capacity and no. of community bins to be placed within premises: Total 74 bins with 80 lit capacities will be provided.

</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• Landfill site where waste will be ultimately disposed by local authority: at the nearest MSW collection point of RMC.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR: 14,552.65 m^2.
• Parking area requirement for Commercial units as per GDCR: 14,552.65 m^2.
• Total number of CPS requirement for the project as per NBC:292 CPS
• Number of CPS requirement for commercial units as per NBC:292 CPS
• Total Parking area provided (m^2) & No. of CPS:15,096.78 m^2 & 500 CPS
• Parking area provided in 1st basement (m^2) & No. of CPS: 6,377.44 m^2 & 199 CPS
• Parking area provided in 2nd basement (m^2) & No. of CPS: 6,377.44 m^2 & 199 CPS
• Parking area provided as open surface (m^2) & No. of CPS: 2,341.90 m^2 & 102 CPS.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 45 m, 12 m & 9 m wide roads.
• Number of Entry & Exit provided on approach road/s: 4 gates will be provided.
• Width of Entry & Exit provided on approach road/s: 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: 5 to 6 m.</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Fly ash/PPC will be used in concrete, paving blocks and any cement applications. Lead free paint, enamels will be used for painting wooden and metal surfaces. Provision of CFL/LED lights.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply: Paschim Gujarat Vij. Company Ltd.
Maximum demand:1500 KVA
Connected load:2500 KVA
Source: Paschim Gujarat Vij. Company Ltd.
• Energy saving measures: Use of energy efficient electrical appliances, maximum use of natural light through proper building orientation, solar street lights for entire campus etc.
• DG Sets:
No. and capacity of the DG sets: 2 × 150 KVA
Fuel & its quantity:50 lit/hr</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>During the operation phase: Underground water tanks- 90 KL × 2 nos., terrace water tank of 20 KL capacity on all the buildings, fire extinguishers, fire alarms, hose reels, external hydrants & wet risers, automatic sprinkler system in basement, pumping arrangement system-riser with pressure pump, auto operation with pressure switch, first aid box, displaying of important telephone numbers etc.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase:
<table>
<tr><th>Type of block</th><th>Distance of stair case from the</th><th>Number of Stair case</th><th>Width of Stair case (m)</th><th>No. of floors</th></tr>
</table></td></tr>
</table>

		farthest corner (m)			
	Block A	25.26	2	2.0	2 B + G+ 21
	Block B	25.26	2	2.0	2 B + G+ 21
	Block C	25.29	1	2.0	2 B + G+ 3

21.	Rain Water Harvesting (RWH)	• No. & dimensions of RWH tank(s):Nil • No. and depth of percolations wells: 4 nos. of percolating wells. • Details on Pre-treatment facilities : only roof top rain water harvesting.
22.	Green area details	• Tree covered area (m^2):100.0 • Area covered by shrubs and bushes (m^2):-- • Lawn covered area (m^2):900.0 • Total Green Area (m^2):1000.0 • Green Area % of plot area:10% • No. of trees and species to be planted:47
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Allocation of Rs. 14.5 lacs has been proposed for water sprinklers, barricades, waste water & waste management, provision of PPEs etc. during the construction phase. Capital cost of Rs. 25.3 lacs and recurring cost of Rs. 5.5 lacs has been proposed for installation of energy efficient appliances, green belt development, rain water harvesting & ground water recharge, waste water management, solid waste management etc. during the operation phase. Rs. 26 lacs for installation of STP.
24.	Dust control measures	Water sprinkling, maintaining roads & trees to avoid dust generation etc.
25.	Eco friendly building material usage details.	Fly ash & pozzolana cement will be used in concrete, paving blocks and any cement applications. Lead free paint, enamels will be used for painting wooden and metal surfaces.
26.	Details of basic amenities to be provided to construction workers.	Adequate sanitation facilities, drinking water, bins for collection of municipal solid waste.
27.	Documents related to land possession	N.A orders submitted for both the F.P. numbers show that the N.A land for residential use is in the name of one of the applicants. Copy of application made for obtaining N.A permission for commercial use has been submitted.

During the meeting, it was presented that they have applied for obtaining environmental clearance for the project named “Sun City Towers”, but they now want to change the name of the project to “Twin Stars”. While asking by the committee, it was clarified that the project developer as well as the project proponent/applicant remains unchanged as mentioned in the application form. The request of change in the project name was considered by the committee. Further it was presented that hydrant & sprinkler system will be provided in entire building. It was found that the parking area provision for the project has not been provided considering the requirement as per the NBC norms. After detailed discussion it was decided to consider the project only after submission of the following:

1. Authentic document of Evercon Developers Pvt. Ltd. showing list of its Directors.
2. Revised details on parking area provision for the project considering the actual requirement as

per the NBC norms along with complete back up calculation. Details of mechanical parking to be provided (also including its operation, maintenance, energy consumption, appointing trained personnel's etc.) in the basement along with the feasibility of providing mechanical parking considering the basement height.

3. Details on provision to be made for ventilation, natural lighting and CO sensors in basement.
4. Revised Form – 1 for change in name of the project.

9.	Residential & Commercial Building Construction project by M/s Aniha Developers	R. S. No. 16/1/1 & 16/1/2 , F.P. No. 157, T.P.S. No.:3, At: Jodhpur, Vejalpur, Ahmedabad.

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/55152/2016]
2.	Type of Project	Residential & Commercial Building Construction 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	Aniha Developers
6.	Estimated Project Cost (Rs. In Crores)	Rs . 65 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No
8.	Project Details	• Land / Plot Area (m^2): 4,975.0 • FSI area Used (m^2): 13,413.87 • Total BUA (m^2): 21,162.92
9.	Building Details	• No. of Buildings: 1 • No. of Blocks: 5 • Scope of buildings/blocks: Basement + ground floor (parking & shops) + 7 floors. • No. of Residential Units: 110 • No. of Commercial Units: 20 • Details of amenities if any: -
10.	No. of expected	110 units x 5 person =550

	Permissible	Proposed
FSI Area, (m^2)	13,432.50	13,413.87
Ground Coverage, (m^2)	-	2,317.03
Common Plot Area, (m^2)	497.50	497.50
Max. building height, (m)	-	31.92

<table>
<tr><td></td><td>residents / users</td><td>20 unit x 3 person = 60</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 30
• Source of water: AMC
• Waste water generation quantity (KL/day): 5.0
• Mode of disposal: AMC drainage line
• 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): 79
• Source of water: AMC Water Supply
• Waste water generation quantity (KL/day): 62
• Mode of disposal: Domestic wastewater generation is disposed off into AMC drainage line.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>AMC water supply and AMC drainage line</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>1,500</td><td>100 % reuse</td><td>For garden development</td></tr>
<tr><td>Other excavated earth</td><td>20,000</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>75</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>6.0</td><td>--</td><td>Sell to Actual Users</td></tr>
<tr><td>Discarded packing materials</td><td>3.0</td><td>--</td><td>Sell to Actual Users</td></tr>
<tr><td colspan="4">Total Solid Waste shall (40 workers x 500 gm/person/) 20 kg/day</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</td><td>150

100</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></td></tr>
</table>

		vegetable and food • 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 premises: No of Bins: 14 for residential units + 4 for commercial units, Volume of Bins: 80 Lit each • Landfill site where waste will be ultimately disposed by local authority: at the nearby MSW collection point of AMC.
15.	Parking Details	• Total parking area requirement for the project as per GDCR: 3,016.69 • Parking area requirement for residential units as per GDCR: 2,682.77 • Parking area requirement for Commercial units as per GDCR: 333.92 • Total number of CPS requirement for the project as per NBC : 172 • Number of CPS requirement for residential units as per NBC: 110 • Number of CPS requirement for commercial units as per NBC: 62 • Total Parking area provided (m^2) & No. of CPS: 6,769.26 & 237 CPS. • Parking area provided in basement (m^2) & No. of CPS: 3,625.07 & 113 CPS. • Parking area provided in hollow plinth (m^2) & No. of CPS: 1,649.19 & 59 CPS. • Parking area provided as open surface (m^2) & No. of CPS: 1,495.0 & 65 CPS.
16.	Traffic Management	• Width of adjacent public roads: 12.0 m • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • Width of Entry & Exit provided on approach road/s: 7.5 & 4.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4 • Width of all internal roads: 7.5 & 6.0 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 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 etc.
18.	Energy Requirement, Source and Conservation	• Power supply: by Torrent Power Maximum demand: 250 KW Connected load: 200 KW • Source: Torrent Power • Energy saving measures: Use of transformers and motors having minimum efficiency of 85%, use of CFL or solar light 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.

<table>
<tr><td></td><td></td><td>• DG Sets: No</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Under ground fire water tank of 200 KL, overhead water tank of 25 KL on each block, fire extinguishers at each floor, fire hydrant near each block, sprinklers in basement 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 & Lift</th><th>Width of the staircase (m)</th><th>Travel distance (m)</th></tr>
<tr><td>A</td><td rowspan="5">B+G+7</td><td rowspan="5">2,039.02</td><td rowspan="5">One staircase in each block</td><td rowspan="5">1.5</td><td rowspan="5">Less than 25</td></tr>
<tr><td>B</td></tr>
<tr><td>C</td></tr>
<tr><td>D</td></tr>
<tr><td>E</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 20 m below ground level
• No. & dimensions of RWH tank(s) : 2 nos (10m x 10m x 2.5m)
• No. and depth of percolations wells : 2 nos.
• Details on Pre-treatment facilities: Filtration and oil & grease removal.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) : 300
• Area covered by shrubs and bushes (m^2):20
• Lawn covered area (m^2): 147.5
• Total Green Area (m^2): 467.5
• Green Area % of plot area: 6 %
• No. of trees and species to be planted: 75</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan (Rs. in lacs)</td><td>Total Rs. 10.5 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 phase</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>
<tr><td>25.</td><td>Eco friendly building material usage details.</td><td>Use of Ready Mix Concrete (RMC)</td></tr>
<tr><td>26.</td><td>Details of basic amenities to be provided to construction workers.</td><td>Drinking water, sanitary facility, free of cost doctor service, all the required personal protective equipments etc.</td></tr>
<tr><td>27.</td><td>Documents related to land possession</td><td>Village form no. 7 submitted by them shows that the N.A land admeasuring 4,975.0 m^2 is in the name of land owners. Copy of Banakhat, registered with sub-registrar Ahmedabad (Paldi), between the land owners & M/s Aniha Developers has been submitted.</td></tr>
</table>

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

10	Park View (Shivalik Jhanvi Infraspace Llp)	Survey number 329, F.P. No 61, TP No: 1, Village Shela, Ahmedabad

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/55746/2016]
2.	Type of Project	Residential Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Parkview
5.	Name of Developer	Shivalik Jhanvi Infraspace LLP
6.	Estimated Project Cost (Rs. In Crores)	60 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No
8.	Project Details	• Land / Plot Area (m^2): 10,684 • FSI area (m^2):28,846.8 • Total BUA (m^2):47,850
9.	Building Details	• No. of Buildings: Three • No. of Blocks: Six • Scope of buildings/blocks: Basement + hollow plinth +14 floors. • No.& size of Residential Units: 336 Flats -3 BHK Size 85.85 m2 • No. & type of Commercial Units: No • Details of amenities if any: One Society Offices

	Permissible	Proposed
FSI Area (m^2)	28,846.8	28,846.8
Ground Coverage (m^2)	NA	3,260
Common Plot Area (m^2)	1,068.4	1,070
Max. building height (m)	70	45

<table>
<tr><td>10.</td><td>No. of expected residents / users</td><td>1512 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: septic 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>• Total water requirement (KL/day): 280.51
• Fresh water requirement (KL/day): 205.12
• Source of water: water supply from AUDA
• Waste water generation quantity (KL/day):220.12
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purpose within premises and remaining quantity of treated sewage will be discharged into the drainage line of AUDA.
• In case of STP provision, capacity of STP: 225 KL/day
• STP Technology: Biological
• Purposes for treated sewage utilization: Flushing and Gardening
• Quantity of treated sewage to be reused:1.Gardening (KL/day):5.35
2. Flushing (KL/day):70.04
• 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 purpose within premises and remaining quantity of treated sewage will be discharged into the drainage line of AUDA.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Available at 2.0km from 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>2,600</td><td>2,600</td><td>For development of Landscape area</td></tr>
<tr><td>Other excavated earth</td><td>23,400</td><td>13,000 m^3 will be reused for back filling within premises.</td><td>Balance earth will be used in other project</td></tr>
<tr><td>Construction debris</td><td>450</td><td>200 m^3 will be used for road & plinth filling.</td><td>Balance debris will be handed over to AUDA</td></tr>
</table></td></tr>
</table>

		Steel scrap | 10 | 0 | Sold to vendors Discarded packing materials | 8 | 0 | Sold to vendors Operation Phase: Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse Dry waste | 370.88 | White bins | Sold to vendors Wet waste | 556.32 | Green Bins | Municipal bins STP Sludge | 10 | Green Bins | Municipal bins • 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: at the nearby waste collection point of AUDA/AMC.
15.	Parking Details	• Total parking area requirement for the project as per GDCR:5,769.36 m^2 • Parking area requirement for residential units as per GDCR:5,769.36m^2 • Total number of CPS requirement for the project as per NBC :336 • Number of CPS requirement for residential units as per NBC: 336 • Total Parking area provided (m^2) & No. of CPS: 11,540 & 386 ECS • Parking area provided in basement (m^2) & No. of CPS: 8,000 & 250 CPS • Parking area provided in hollow plinth (m^2) & No. of CPS:2,250 & 80 CPS • Parking area provided as open surface (m^2) & No. of CPS: 1,290 & 56 CPS
16.	Traffic Management	• Width of adjacent public roads: 18 m wide road • Number of Entry & Exit provided on approach road/s: 2 • Width of Entry & Exit provided on approach road/s: 6 m Entry/Exit • 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: 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 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 3 nos. of percolating wells, provision of STP & reuse of treated sewage etc.
18.	Energy	Power supply:

<table>
<tr><td></td><td>Requirement, Source and Conservation</td><td>• Maximum demand: 1750 KVA
Connected load: 1800 KVA
Source: UGVCL
• % of saving with calculations: ~30% by use of LED, star rated energy efficient electronic consumer durables and solar street lights.
• 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 40 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: Fire extinguishers, hose reel, manually operated electric fire alarm system, wet riser, automatic sprinkler system in basement, underground static water storage tank-200 KL capacity, terrace tank -60 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-B,C-D,E-F</td><td>B+HP+14</td><td>419.64</td><td>1</td><td>2.0</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: 24 m
• No. & dimensions of RWH tank(s) : 3 Nos. and 2.0m X 2.0 m X 3.0 m
• No. and depth of percolations wells :3 nos. and 20 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) :400
• Area covered by shrubs and bushes (m^2): 250
• Lawn covered area (m^2):420
• Total Green Area (m^2):1070
• Green Area % of plot area: 10 %
• No. of trees and species to be planted: 161 number of trees and 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.52.0 lacs & Rs.10 lacs as capital cost & recurring cost respectively has been made for EMP & EMS.</td></tr>
</table>

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	Village form no. 6 submitted by them shows that the N.A land admeasuring 10,684.0 m2 has been purchased by M/s Shivalik Jahanvi Infraspace LLP.

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

11	Jayantibhai Vashrambhai Narola	Block No. 7,8,13,15/P, Moje Valthan Ta. Kamrej, Dist. Surat .

The project was earlier taken up in the meeting of SEAC held on 18/02/2016. During the meeting held on 18/02/2016, 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).

Project proponent submitted the above mentioned details vide their letter dated 08/06/2016.

Project proponent along with their expert/consultant attended the meeting and the project was appraised based on the additional details submitted as well as facts presented before the committee.

It was presented that solar panels will be installed in such way that 7.56% of the total energy requirement will be met through solar energy. STP sludge will be used as manure in gardening. Copy of opinion obtained from Narmada, Water Resources, Water Supply & Kalpsar Department has been submitted which shows that 6 m margin space must be left from the bank of the natural drain. They have submitted a plan showing provision of margin of 9 m between the bank of the natural drain & the proposed building control line. Fire fighting facilities like 3 nos. of fire water storage tanks each of 40 KL capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms, fire extinguishers etc. will be provided. Details of Environment Management Plan during construction & operation phase with reference to air environment, water environment, solid waste, noise environment etc. has been submitted and budget of Rs. 85.08 lacs & Rs. 13.80 lacs as capital cost & recurring cost respectively has been proposed. Copy of village from no. 7 & 12 for all the block numbers submitted by them show that the land is in the name of land owners. The land owners have given power of attorney to the applicant and copy of the power of attorney, registered with the sub-registrar of Kamrej, has been submitted. Copy of applications made for obtaining N.A permission for all the block numbers have been submitted by them.

Salient features of the project are as under:

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
• Total BUA (m^2): 1,20,945.42
<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>
</td></tr>
<tr><td>9.</td><td>Building Details</td><td>
• 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</td><td>Water supply & drainage connection will be made available to the project during the operation phase after getting B.U permission.</td></tr>
</table>

<table>
<tr><td></td><td>drainage line</td><td></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>5,000</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><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>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.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• 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>
<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, provision of solar panels in such way that 7.56 % of the total energy requirement will be met through solar energy 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>
</table></td></tr>
</table>

8.2.2	Energy efficient motors	For the common area, all motor will be energy efficient as per ECBC.
8.2.3	Power factor be maintained between 0.95 and unity	We will use capacitor bank for common areas load to maintain power factor.
8.2.5	Power distribution system losses to be maintained less than 1%.	We will consider low watt loss type MCB in all distribution system.

- 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.

19. Fire and Life Safety Measures

- 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 appropriate PPEs like dust mask, ear plug, helmet, safety belt etc. and made to wear them during working hours.
- During operation phase: 3 nos. of fire water storage tanks each of 40 KL capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms, fire extinguishers etc.

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			
				4^{th} 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 to 7 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)	Budget of Rs. 85.08 lacs & Rs. 13.80 lacs as capital cost & recurring cost respectively has been proposed for Environment Management Plan during operation & construction phase of the project. Rs. 3.58 lacs as capital cost & Rs.1.8 lacs as recurring cost for green belt development has also been proposed.					
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, aluminium 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	Copy of village from no. 7 & 12 for all the block numbers submitted by them show that the land is in the name of land owners. The land owners have given power of attorney to the applicant and copy of the power of attorney, registered with the sub-registrar of Kamrej, has been submitted. Copy of applications made for obtaining N.A permission for all the block numbers have been submitted by them.

During the meeting, it was found that they have proposed to dispose the municipal solid waste, to be generated during the operation phase, through door to door waste collection system of SUDA. The project proponent was suggested to install organic waste convertor/composter for the biodegradable & food waste to be generated during operation phase of the proposed hotel project. The project proponent was agreed to install organic waste composter for treating bio degradable waste and the resultant product will be used as manure for gardening within premises & for their other project sites. Details of the proposed composting / treatment scheme for the bio degradable waste has also been submitted. After detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

"Akshar City" at S.N.450/A,450/B,450/K,452/A452/B, Vill:Kelanpur, Dist: Vadodara by Akshar Builders

The proposal was considered before the SEAC during the meeting held on 20/09/2014 & 29/04/2015 and additional information was sought vide this office letter dated 07/07/2015.

Subsequently the additional information was submitted the project proponent vide letter dated 06/06/2016. Referring to the submission it was found by the committee that they have not submitted a registered copy of development agreement made between the land owners & the project proponent and as it was not found satisfactory, the committee unanimously decided delist the proposal from the list of applications/proposals pending with SEAC in view of the MoEFCC's O.M dated 30/10/2012 and to close the above proposal.

The additional information received from the project proponents, which was sought during various SEAC meetings, were considered by the committee during the meeting and as it was found satisfactory, the committee decided to recommend the following projects for grant of environmental clearance.

Sr.No.	Name and address of the project.
1.	Laxmi Nivas, S.No.597/2,606,618, FP.No.45/1,53,58/2, TPS No.80, Narol, Ahmedabad
2.	Hotel Project at S.No.223/5, F.P.No.1222/5, O.P.No.1222/5, D.T.P.S.No.221, Village: Bhadaj, Dist: Ahmedabad by Mr. Ashok R. Thakkar (M/s. Art Club Pvt. Ltd.)
3.	Palladium Pride at R.S.No.204/P/2, O.P.No.70, F.P.No.69/2, T.P.S.No.50 (Ved Katargam), Katargam, Surat by Dolatbhai Jivanbhai Patel.
4.	Raksha Shakti University, Main land Block No.1194/A, S.No.355/P, reserve land for jungle warfare Block No. 411, 412, 414, S.No. 337/P, 352, 353 + 354/2P, Village: Lavad, Ta: Dehgam, Dist: Gandhinagar.

5.	Sky City, F.P.No.21, Block No. 215, 251,305,306, O.P. No.21, Draft T.P.S.No.1, Shela, Ahmedabad.

The proponents of the following project did not remain present during the meeting.

1. Ganesh Parisar at R.S. No. 1461211,F.P. No. 328/1, Draft TPS No. 65, (Jagatpur-Tragad-Chandkheda-Ranip), Ahmedabad.
2. Mayberry Villa Phase – 2 at Block No. 89, Moje Virwadi, Ta. Navsari, Dist. Navsari.

It was decided to call them again in one of the upcoming meetings of SEAC.

12	SIA/GJ/IND2/16121/2016	**M/s: Moradia Brothers Chem Pvt. Ltd.,** Block No. 45, Jalbhumi Industries Estate, Vill. Atodara, Ta. Olpad, Dist. Surat.	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Moradia Brothers Chem Pvt. Ltd herein after Project Proponent – PP) submitted application for obtaining environmental clearance for project on 17/06/2016. .

Project status: New

Project / Activity Details:

This is a new project for manufacturing of Synthetic organic chemicals and has applied for following products as tabulated below:

Sr. No.	Name of Product	Capacity
1.	Sodium Benzoate	100 MT/Month

The proposed production activity falls in the project/activity 5(f) as per the schedule of the EIA Notificaiton-2006.

Plot area is 463.70 Sq. meter. Unit has proposed 143.70 Sq. meter area for green belt development. Estimated cost of proposed expansion is Rs. 40 lakhs. Fresh water requirement will be met through bore well. Fresh water consumption will be 4.4 KL/day. (0.8 KLPD Domestic + 1.60 KLPD for gardening and 2.0 KLPD for industrial purpose). Wastewater generation will be 0.60 KLPD from domestic use and will be disposed off into soak pit/septic tank system. There is no industrial waste water generation. PP has proposed to install one TFH (600 U). Imported coal/agro waste of 0.80 MTPD is proposed as fuel. Cyclone separator is proposed as air pollution control measure. There will be no D.G. Set for alternate power arrangement. There will be no process emission. Details of hazardous waste generation and its management proposed are as under.

Sr. No.	Type of Waste	Total Quantity	Facility
01.	Used oil	100 liter/Year	Used oil will be sold only to the registered recyclers or reused as lubricant for machinery within the factory.

02.	PP Bags	85 Nos./Month	Either reused or returned back to suppliers or sold only to the authorized vendors

Observations & Discussions:

Technical presentation was made by the project proponent included general information regarding project, details of product, raw materials, water consumption, fuel consumption, associated air pollution control measures, hazardous waste management system, location of the proposed project with reference to the nearest human habitation, Surrounding industrial units, manufacturing process with material balance, physiochemical properties of raw materials, risk assessment details with safety measures etc. Committee noticed that PP has submitted copy of non agriculture status of the land, distance of surrounding entities from the proposed project including satellite image, undertaking regarding chemicals used in the project are not coming under major accident hazard (MAH) categories. Lay out of the unit includes separate entry and exit. Looking to the low pollution potential of the proposal, committee unanimously decided to categorize proposal under B2 category and the following additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site. NA permission letter from concern authority.
2. Details of surrounding industrial units within 2 KM radius with details like Name and address of the unit, type and nature of industrial activity etc.
3. Project site specific details such as aerial distance of the project site from the nearest (1) Village-Nearest residential area N(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 (8) Aanganwadi/School/College/Institute etc. and likely impact on them due to the proposed project along with the mitigation measures proposed to minimize the likely impact. Give satellite image of 2 KM radius.
4. Legal Undertaking stating that unit is complying the three conditions [i.e. water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014.
5. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
6. Proposed monthly production and monthly consumption of each raw material. Chemical name of proposed product to be manufactured and details on end use of the product.
7. Manufacturing process along with chemical reactions and mass balance for the product.
8. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Copy of permission letter obtained from the CGWA or concern authority for drawl of raw water.

9. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
10. Plans for management and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
11. Action plan for 'Zero' discharge of effluent shall be included.
12. How it will be ensured that there will not be any waste water generation from the proposed products.
13. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
14. Specific details of (i) Details of the utilities required (ii) Type and quantity of fuel to be used for each utility (iii) Flue gas emission rate from each utility (iv) Air Pollution Control Measures proposed to each of the utility along with its adequacy (v) List the sources of fugitive emission along with its quantification and proposed measures to control it.
15. Technical details of Dryers with APCM. Also include action plan for fugitive emission control.
16. Specific details of fugitive emission from the unit along with its quantification and proposed measures to control it along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR.
17. Details of measures proposed for noise pollution abatement & its monitoring.
18. 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 and its disposal. How the manual handling of the hazardous wastes will be minimized?
19. Methodology of de-contamination and disposal of discarded containers and its record keeping.
20. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
21. A detailed EMP including the protection and mitigation measures for preventing impacts on human health and environment as well as detailed monitoring plan with respect to various parameters and responsible head for the environmental management cell and environmental management cell proposed for implementation and monitoring of EMP.
22. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
23. A detailed Green Belt Development Program including annual budget, types & number of trees to be planted, area under green belt development [with map]; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the GIDC area and elsewhere.
24. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
25. Details of quantity of each hazardous chemical to be stored, Material of Construction of major hazardous chemical storage tanks, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals. How the manual handling of the hazardous chemicals will be minimized?
26. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof

electrical fittings, DCP extinguishers and other safety measures proposed.

27. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
28. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
29. Detailed risk assessment report including prediction of the worst-case scenario and maximum credible accident scenario along with damage distances and preparedness plan to combat such situation and risk mitigation measures. Vulnerable zone demarcation.
30. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
31. A tabular chart with index for point-wise compliance of above details.

The project shall be appraised on satisfactory submission of the above.

13	SIA/GJ/IND2/16227/2016	**M/s: Everest Intermediates ,** Plot No. 706, 707, & 709, GIDC Estate, Sachin, Dist. Surat-394230	Screening & Scoping

Project / Activity no.: 5(f)

- M/s: Everest Intermediates (herein after Project Proponent – PP) has submitted application vide their letter dated 17/06/2016.

Project status: Expansion

Project / Activity Details:

Project proponent proposes to expand the production as under.

Sr. No.	Name of Products	Existing	Proposed Total
		MT/Month	MT/Month
1	Anthranilic Acid	18	45
2	5 - Sulfo Anthranilic Acid	7	15
3	Phthalimide	5	200
4	Aniline 2, 5 Disulphonic Acid	-	30
	TOTAL	30	290

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.
Plot area is approx. 6030 m^2. Green belt area of 1768 m^2 . Estimated cost of proposed expansion is INR: 1.50 Crore. Source of water will be from GIDC. Water consumption detail is as under:

Sr. No.	Purpose	Existing (KLD)	Proposed Total (KLD)
1	Domestic	1.00	5.00
2	Industrial		
(A)	Processing	7.00	27.00

(B)	Boiler	1.00	1.00
(C)	Cooling		3.00
(D)	Washing	2.00	4.00
(E)	Scrubber		3.00
TOTAL of industrial		10.00	38.00
TOTAL of Industrial & Domestic		11.00	43.00

Total waste water generation is as under:

Sr. No.	Source	Existing (KLD)	Proposed Total (KLD)
1	Domestic	1.0	5.0
2	Industrial		
(A)	Processing	7.0	
	a.Concentrated stream		30.00
	b.Dilute stream		11.00
(B)	Boiler Blow down	0.85	0.10
(C)	Cooling		0.50
(D)	Washing	2.00	4.00
(E)	Scrubber		3.00
TOTAL of industrial		9.85	48.60
TOTAL of Industrial & Domestic		10.85	53.60

For Dilute Stream, PP has obtained membership of CEPT-M/s. GECL having booked effluent load of 29.85 KLD. (After Expansion, PP will sent their 18.60 KLD w/w to CETP).For Concentrated Stream, M/s. GECL has also received EC and CTE for the treatment of concentrate effluent from member industries (MEE) . PP is a member of CETP of M/s. GECL and will send concentrated stream i.e. 30 KLD as and when it gets operational, till time PP will treat the concentrated effluent in their own MEE. Entire demand of fresh water will be met from GIDC water supply. Domestic waste water will be treated and disposed off to septic tank/ soak pit.

Source of air pollution and its control measures as proposed by PP are as under:

A	FLUE GAS EMISSION			
Stack No.	Stack Attached To	Stack Height & Diameter	Fuel Consumption	APCM
EXISTING				
1	Baby Boiler Capacity : 500 Kg/hr	Height : 10 m Dia.: 400 mm	LDO 2500 Liters/Month	As LDO is used as a fuel, adequate stack height is provided.

2.	D. G. Set - Stand By Capacity : 125 KVA	Height : 4 m	LDO 12 Liters/Hr	As LDO is used as a fuel, no air pollution control system is required.
ADDITIONAL				
1	Hot Air Generator - Capacity : 300 Kcal/hr	Height :10 m	Agro Briquettes / Bio Coal - 250 Kg/Day	Multicyclone Separator
2	Hot Air Generator - Capacity : 300 Kcal/hr	Height :10 m	Agro Briquettes / Bio Coal - 250 Kg/Day	Multicyclone Separator
B	PROCESS EMISSION			
Stack No.	Stack Attached To	Stack Height	Gas emission	APCM
EXISTING				
1.	Reaction & Isolation Vessel	Height : 12 m	SO_2	Water + Alkali Scrubber
ADDITIONAL				
1.	Reaction & Isolation Vessel	Height : 12 m	NH_3	Water + HCl Scrubber

DG Set of 125 KVA shall be kept for emergency power back up. Details of hazardous waste generation and its management is as under:

Type of solid / hazardous wastes	Quantity generated		Mode of storage	Method of disposal
	Existing	Proposed total		
ETP Sludge	0.8 MT/Month	8.0 MT/Month	Collected in plastic / HDPE bags & stored in waste storage area	Collection, Storage, Transportation and Sent to TSDF site of M/s. BEIL, Bharuch for secured land filling
Used Oil	25 Liters/Month i.e. 0.02155 MT/ Month	30 Liters/Month i.e. 0.025 MT/ Month	Collected in barrels & stored in waste storage area	Collection, Storage, Transportation and Sent to GPCB approved recycler for suitable treatment
Discarded Drum/Liners	250 Nos./Month i.e. 2 MT/Month	333 Nos./Month i.e. 2.66 MT/Month	Stored in waste storage area	Collection, Storage, Transportation and Sent back to supplier / to Authorized recycler

MEE Salt	Nil	10 MT/Month	Collected in plastic / HDPE bags & stored in waste storage area	Collection, Storage, Transportation and Sent to TSDF site of M/s. BEIL, Bharuch
Liqour Ammonia	Nil	40 MT/Month	Collected in barrels & stored in waste storage area	Collection, Storage and Reuse as a raw material to manufacture Phthalimide

Observations/Discussions:

Technical presentation during the meeting included details of the company, site location map, prefeasibility report, area breakup of the project, area sensitivity study, details of proposed production capacities with existing product details, raw material consumption details for existing and proposed products, water consumption, waste water generation after the proposed expansion, details of sources of air emission along with anticipated pollutants, details of existing SLF and incinerator ,green belt details etc.Safety aspects of Oleum, Sulphuric acid, Chlorine and other hazardous chemicals have been discussed. The committee desired to have MSDS of materials to be handled, information on storage of each hazardous chemical and safety measures thereof. Occupational health related issues due to toxic chemicals have been discussed and committee asked to provide necessary Personal Protective Equipments [PPEs] and requisite first aid measures. After detailed deliberations on various aspects of the project following TORs were prescribed in addition to the draft TOR proposed, to carry out EIA study covering 5 km radius from the project boundary of the proposed site :

1. Need for the proposed expansion should be justified in detail.
2. Demarcation of proposed expansion activities in lay out of the existing premises.
3. Exact details about additional infrastructural facilities, plant machineries etc. required for the proposed expansion.
4. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
5. Detailed manufacturing process along with chemical reactions and mass balance (including reuse-recycle, if any) for each product to be manufactured. Details on end use of each product.
6. Technical details of the proposed plants along with details of strategy for implementation reuse / recycle and other cleaner production options for reduction of wastes.
7. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the proposed expansion. Copy of permission obtained from GIDC for additional water supply.
8. Water consumption and consumption of each raw material per MT of each product.
9. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream to be generated. A detailed treatability study vis-à-vis the adequacy and efficacy of the treatment facilities proposed for the wastewater to be generated.
10. Explore the possibility to achieve minimum effluent discharge by reuse / recycle of treated effluent within the premises. Revised water balance diagram showing reduced fresh water requirement in case of reuse / recycle of treated effluent.
11. Complete waste water management plan for existing as well as proposed production. Detailed effluent treatment scheme and disposal method. Technical details of the ETP & STP including size

of each unit, retention time etc. including modifications / up gradation to be done in existing ETP to take care of increased effluent quantity along with its adequacy report. Provision of online flow meter at the final outlet of the ETP & STP.

12. 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. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
13. Detailed effluent treat ability study vis-à-vis adequacy and efficacy of the treatment facilities for existing as well as proposed for the wastewater to be generated along with adequacy and efficacy report. The characteristic on which treatability is based shall also be stated.
14. Technical details of RO system.
15. Undertaking stating that a separate electric meter will be provided for the ETP, RO, & MEE.
16. Undertaking stating that a separate electric meter will be provided for the ETP.
17. Qualitative and quantitative analysis of each product and stream wise effluent to be generated from the project along with the treatment scheme proposed.
18. Details of segregation of the wastewater streams to be carried out, if any and plans for management and disposal of different waste water streams to be generated.
19. Application wise breakup of treated water utilization.
20. Plan for management and disposal of waste streams to be generated from spillage, leakages, occasional reactor washing and exhausted media from Scrubber etc.
21. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
22. Details of CETP- GECL/Common MEE of MEPPL including (1) Total capacity of the CETP/ Common MEE of MEPPL (2) Actual load at present (Qualitative and Quantitative – per day) (3) CETP/ Common MEE of MEPPL Up gradation scheme, if any (4) Last 6 analysis Reports of GPCB for Inlet and outlet of CETP/ Common MEE of MEPPL (5) Spare capacity of CETP/ Common MEE of MEPPL with treatability and feasibility report. (6) Recommendations and suggestions of the last two Environment Audit reports of CETP- GECL / Common MEE of MEPPL and its compliance report.
23. Membership of Common Environmental Infrastructure including the CETP, TSDF / Common Hazardous Waste Incineration Facility (CHWIF), Common MEE (Whichever is applicable) along with an assessment to accommodate the additional quantity of wastes to be generated. Explore the possibilities for co-processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
24. One season site-specific meteorological data including temperature, relative humidity, hourly wind speed and direction and rainfall shall be provided.
25. 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.
26. One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. Parameters to be considered shall be in accordance with the revised national ambient air quality standards. Project specific parameters like SO2, NH3 etc. shall be considered in addition to general

parameters. The location 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.

27. Impact of the project on the AAQ of the area. Details of the model used and the input parameters used for modeling should be provided. The air quality contours may be plotted on a location map showing the location of project site, habitation, sensitive receptors, if any. The wind roses should also be shown on this map.
28. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate emission from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it (ix) Details on tail gas treatment.
29. Impact on local transport infrastructure due to the project such as transportation of raw material, finished product, Fuel (Imported Coal) etc. Base line status of the existing traffic, projected increase in truck traffic as a result of the project in the present road network, impact on it due to the project activities, carrying capacity of the existing roads and whether it is capable of handling the increased load. Details regarding arrangement for improving the infrastructure like road etc. if any should be covered. Whether any additional infrastructure would need to be constructed and the agency responsible for the same with time frame.
30. Specific details of fugitive emission from the unit along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR along with Leak detection and repairing programme (LDAR) for VOCs.
31. Details and time bound program for installation of online monitoring system in the existing as well as proposed plants for monitoring of the pollutants from the treated effluent, stacks and process vents with a software and an arrangement to reflect the online monitored data on the company's server, which can be accessed by the GPCB on real time basis.
32. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
33. Details on generation and management of the hazardous wastes from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc including possible efforts as how the manual handling of the hazardous wastes will be minimized.
34. Methodology of de-contamination and disposal of discarded containers along with the details on its record keeping, management of effluent to be generated from decontamination of the discarded containers etc.
35. Detailed plan of ash evacuation, handling, storage, capacity of silos for ash storage and utilization should be provided. Undertaking stating that ash pond shall not be constructed and it shall be stored in closed silos only should be incorporated.
36. Membership of Common Environmental Infrastructure including the TSDF / Common Hazardous

Waste Incineration facility along with an assessment to accommodate the additional quantity of wastes to be generated. Copies of MOU / agreements done with actual consumers regarding utilization of fly ash, bottom ash etc. should also be incorporated.

37. Management plan for By-products (if any) to be generated, along with the name and address of end consumers to whom the by-product/s will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-product/s from the proposed project.
38. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
39. Data on air emissions, wastewater generation and solid / hazardous waste generation and management for the existing plant should also be incorporated.
40. Details of measures proposed for the noise pollution abatement and its monitoring.
41. 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.
42. 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 place ambient air quality monitoring plan as per Gujarat Factories Rules.
43. MSDS of all raw materials and products.
44. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impact.
45. Details of quantity of each hazardous chemical to be stored, material of construction of major hazardous chemical storage tanks, threshold storage quantity as per schedules of Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals.
46. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units 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.
47. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.
48. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
49. 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.

50. Detailed socio-economic development measures 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.
51. Copies of analysis report of the water samples from final outlet of ETP collected by GPCB with gist of parameters analyzed, results against prescribed standard.
52. Consent to Establish, Consent to Operate orders obtained in past along with point wise compliance status of all the conditions stipulated therein. In case of noncompliance, details of noncompliance, and its mitigation measures to prevent recurrence.
53. Copy of Environmental Clearance obtained, if any, for the existing project and a certified report of the status of compliance of the conditions stipulated in the environmental clearance for the existing operation of the project by the Regional Office of the MoEF&CC.
54. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.
55. Details of fatal / non-fatal accidents, loss of life or man hours, if any, occurred in the existing unit in last three years and measures proposed to be taken for avoiding reoccurrence of such accidents in future.
56. (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.
57. 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.
58. 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.
59. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
60. An undertaking by the Project Proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009. (Compliance of OM dated 05/10/2011 & 04/08/2009).
61. A tabular chart with index for point-wise compliance of above TORs.
62. Being an expansion project, compliance of MoEF&CC circulars vide No: J-11011/618/2010-IAII(I) dated 30/05/2012 and J-11013/41/2006-IA-II(I) dated 20/10/2009

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF&CC's sector specific EIA Manual for **Synthetic Organic Chemical** industry 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 project shall be appraised on receipt of the final EIA report.

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 27/08/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

14	SIA/GJ/IND2/16082/2016	**M/s: Bizotic Lifescience Pvt. Ltd ,** Survey No. 152/4/1, Vill. Kharachiya, Opp. Ramnagar, Ta. & Dist. Morabi	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Bizotic Life science Private Limited herein after Project Proponent – PP) has submitted application for new project on dated 20/06/2016.

Project status: New

Project / Activity Details:

This is a new proposal and proposed production activity as tabulated below:

No.	Name of Product	Quantity MT/Month
1	Pregabalin	2.0

Proposed activity falls in the project/activity 5(f) as per the schedule of the EIA Notificaiton-2006.

Total plot area is 6475 $m^{2.}$. Green belt area is 2000 $m^{2.}$ Total cost of project is Rs.4.87 Crores. Aerial distance of the nearby residential area of Vill. Kharachiya is @ 1.2 Km from the proposed site. Water will be sourced through tankers. Detailed water consumption is as under:

Particulars	Water consumption (KLPD)	Waste water Generation (KLPD)
Domestic	1.0	0.7
Gardening	2.0	0.0
Industrial		
Process	1.5 (Fresh: 1.0 D.M.Water: 0.5)	2.0
Boiler	5.0 (Recycled)	0.5
Cooling	1.0	0.1
Washing	2.0	2.0
Others (R.O & Softening Plant)	0.5	0.3

Scrubber	1.0	1.0
Total	**14.0**	**6.6**
(Recycled 5.0 + Fresh 8.5 + D.M. Water 0.5)		

Total water consumption will be 14 KLPD. Domestic water consumption will be around 1 KLPD and sewage generated @ 0.7 KLPD. It will be disposed to soak pit. Gardening water consumption will be 2 KLPD. There will be consumption of 0.5 KLPD D.M. Water in manufacturing process which will be fulfilled by D.M. Water supply will be from Tankers. Industrial water consumption will be 11 KLPD and effluent generation will be 5.9 KLPD, which will be treated in effluent treatment plant having primary and secondary treatment facility. Treated effluent of @ 5.9 will be sent to evaporator (Capapcity:500 litre/hour) for zero discharge. 90% of Evaporator Condensate around 5.0 KLPD will be recycled for Boiler feed purpose. Unit has proposed following sources of air emission. Details of Flue Gas Stack; Stack Attached To Steam Boiler

No.	Stack attached To	Stack Ht	Fuel consumption		APC System	Parameters		
			Name	Lit/ Day		SPM mg/NM^3	SO_2 ppm	NO_x ppm
1.	Steam Boiler (1 TPH)	90 ft ~ 27 m	L.D.O	500	Wet Scrubber	< 150	<100	<50
2.	D.G. Set (350 KVA)	36 ft ~ 11 m	Diesel	100	---			

(A) Details of process gas emission:

No.	Stack attached To	Scrubber Vent Height (m)	APC System	Expected Pollutants
1.	Reaction Vessel	11	Two stage scrubber system. (Water scrubber followed by Alkali scrubber)	CO_2 Cl_2 HCl to be scrubbed

Details of hazardous solid waste management and disposal

No.	Type of Waste with Category No.	Qty. (MT/ Month)	Source of Generation	Collection	Treatment	Storage	Disposal/ Management
1.	ETP Waste/ Evaporation Residue	7	Effluent Treatment Plant and Evaporator	Manual for less quantity & By pump for high quantity	Solar Drying	Packed into HDPE Bags, store into storage area	Dispose to TSDF Site of SEPPL, Bachau.
2	Process Waste	1.5	Manufacturing process stage-1				
3	Distillation Residue	0.8	Solvent Recovery	Pump from	-		Dispose to CHWIF site

			System	Distillation system			of SEPPL, Bhachau for incineration.
4	Used Oil	0.1	Plant Machineries	Manual	-	Separate store into SWSA after filling into drums.	Used Oil will be reused as a lubricant in plant machineries or sell to authorized recycler.
5	Discarded Containers (Bag, Barrel, Drum)	0.5	Raw material storage area / Production Section	Manual	Decontamination	Separate store into SWSA.	Return back to raw material supplier or used for packing of Hazardous solid waste.

Observations / Discussion:

Technical presentation by the PP included general information, details of products and raw materials, Waste generation, hazards & control, analysis of pollution parameters before and after treatment, Risk estimation etc.Issues related to treatability of the waste water, adequacy of treated waste water to be reused, volatile organic compound handling and management, safety and occupational health etc. were discussed. While discussing about the segregation of waste streams and zero liquid discharge (ZLD), PP informed that they will adopt aerobic and anaerobic treatment for waste water followed by MEE of 500 litre/hour capacity and will recycle condensed stream to boiler. Committee suggested to provide sound management of waste water with adequate treatment facilities to achieve zero liquid discharge. During the meeting, the project proponent requested for categorizing the project as B2 and to exempt them from carrying out detailed EIA study which was not considered by the committee and the project proponent was asked to include the following TORs for the EIA study to be done covering 5 km radial distance from the boundary of the project.

1. Copies of land possession documents including status of land for non-agriculture purpose in the name of project proponent.
2. Present land use pattern of the study area shall be given based on satellite imagery.
3. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
4. Chemical name of each proposed product to be manufactured. Details on end use of each product.
5. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
6. Details of manufacturing process / operations of each product along with chemical reactions (Stoichiometry), mass balance, consumption of raw materials (MT per MT of the product and

MT/Month) etc. Details on strategy for the implementation of cleaner production activities.

7. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
8. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Status of permission obtained from the GIDC/concern authority for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
9. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the manufacturing processes. Exhausted Scrubbing media, washing streams, waste water from utility section etc. shall also be included.
10. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
11. Segregation of waste streams and details on specific treatment and disposal of each stream.
12. Action plan for 'Zero' discharge of effluent shall be included.
13. Capacity of the proposed ETP [KL/day]. Details of ETP including dimensions of each unit along with schematic flow diagram. Inlet, transitional and treated effluent qualities with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters. Inlet effluent quality should be based on worst case scenario considering production of most polluting products that can be manufactured in the plant concurrently.
14. Technical details of proposed Evaporator including capacity, fuel to be used, adequacy etc. Techno-economical viability of the proposed Incinerator. Control measures proposed for the Incinerator in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
15. Detailed effluent treat ability study vis-à-vis adequacy and efficacy of the treatment facilities for existing as well as proposed for the wastewater to be generated along with adequacy and efficacy report. The characteristic on which treatability is based shall also be stated.
16. Capacity of the RO system [KL/hr including % of Rejection stream and Permeate stream]. Technical details of Reverse Osmosis (RO)/Neno Filtration (NF) system.
17. Undertaking stating that a separate electric meter and flow meters will be provided for the ETP, RO system and Evaporator. Proposal for provision of operational logbook for EMS.
18. Economical viability and technical feasibility of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
19. Application wise break-up of effluent quantity to be recycled / reused in various applications.
20. 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.
21. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
22. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
23. 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.

24. One complete season baseline 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.
25. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modelling 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 modelling should be superimposed on satellite Image / geographical area map.
26. Baseline status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
27. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.
28. Details of soil analysis within the study area including project site, details of ground water table including water quality showing all parameters included in IS:10,500.
29. Details on 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. Methodology of de-contamination and disposal of discarded containers and its record keeping.
30. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
31. Complete management plan for By-products/Spent acids to be generated, along with the name and address of end consumers to whom the by-product/s will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-products/Spent acids from the proposed project.
32. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent. Details of Leak detection and repairing programme (LDAR) for VOCs.
33. 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.

34. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
35. 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. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
36. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
37. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities 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.
38. MSDS of all the products and raw materials.
39. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
40. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
41. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
42. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
43. 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.
44. Detailed socio-economic development measures 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.
45. 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.

46. (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.
47. 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.
48. 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.
49. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
50. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
51. 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&CC's sector specific EIA Manual for synthetic organic chemical industry 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 after receipt of the final EIA report.

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 27/08/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

15	SIA/GJ/IND2/11436/2016	**M/s: Shubhalakshmi Polyesters Ltd.** Survey No. 81-87, 90-96, 98-102, 113,119,120,123-127. Vill. Bhensali, Ta. Vagra, Dist. Bharuch	Screening & Scoping

Project / Activity No.: 5(d)

- M/s: Shubhalakshami Polyesters Limited (herein after Project Proponent–PP) has submitted application vide their letter dated 18/05/2016.

Project status: Change in product mix

Project / Activity Details:

Company has existing unit at Survey no. 81-87, 90-96, 98-102, 113, 119,120,123-127, Village: Bhensali, Taluka: Vagra, District: Bharuch, State: Gujarat. Environment Clearance was obtained for existing products as mentioned in following table vide letter no. F. No. SEIAA/GUJ/EC/5(d) & 1(d)/50/2012 dated 1st March 2012.

	POY/FDY/DTY (Partially Oriented yarn/Fully drawn Yarn/Texturising yarn)	Intermediate Products (Polyester chips)	Gas Engine based captive power plant	Present status
I Phase	1,46,000 MT/annum	1,27,750 MT/annum	10.68 MWH	Gas engine not installed
II Phase	1,27,750 MT/annum	--	5.34 MWH	Not installed
III Phase	2,73,500 MT/annum	--	16.02 MWH	Not installed
Total Production Capacity	5,47,250 MT/annum	1,27,750 MT/annum	32.04 MWH	---

In addition to existing capacity, the company proposes for amendment in 2nd phase to the existing EC granted. Company now proposes to manufacture PSF in the second phase in addition to POY/ FDY/ DTY/ Chips

Phase	Granted capacity		Proposed capacity	
	CP (MT/annum)	POY/ FDY/ DTY (MT/annum)	CP (MT/annum)	POY/ FDY/ DTY /PSF/Chips (MT/annum)
1st Phase	2,73,750	1,46,000	2,73,750	1,46,000
2nd Phase (Current Application for this phase only)	--	1,27,750	---	2,73,750 (including 1,10,000 TPA PSF)
3rd Phase	2,73,500	2,73,500	2,73,500	2,73,500
POWER PLANT				

All three phases	Gas engine based captive power plant of 32.04 MWH will be installed	Gas engine based captive power plant of 32.04 MWH will be installed

Amendment sought by the PP is as under:

Phase	Proposed capacity		Amendment in product mix (MT/annum)
	CP (MT/annum)	POY/ FDY/ DTY /PSF/Chips (MT/annum)	
1st Phase	2,73,750	1,46,000	No change
2nd Phase (Current Application for this phase only)	--	POY/FDY/DTY/ Chips: 1,63,750 TPA Polyester Staple Fibre (PSF): 1,10,000 TPA Total:2,73,750 TPA	Instead of Initial planning of POY/FDY/DTY, proposal for addition of PSF (1,10,000 TPA). Remaining 1,63,750 TPA for POY/FDY/DTY/ Chips
3rd Phase	2,73,500	2,73,500	No change
POWER PLANT			
All three phases	Gas engine based captive power plant of 32.04 MWH will be installed		No change

The proposed amendment in production activity falls under project / activity 5(d) as per the schedule of EIA Notification 2006.

The proposed project is within the existing plant boundary. Hence no additional land required. Total industrial area of the company is 4,71,000 sq. m. Total 1,40,000 sq m of green belt area will be developed. Entire waste water will be utilized within premises and there will not be discharge of waste water from premises. The proposed cost of the project is Rs.110 Crores.

Following amended requirement of raw material is proposed:

Additional Spin finish oil (0.8 MT/day in second phase) will be used for PSF plant.

RAW MATERIALS	CONSUMPTION, MT/ANNUM			
	First phase Addition	Second phase Addition	Third phase Addition	Total

PTA (Purified Terpthalic acid)	234878	0	234878	469756
MEG (Mono Ethylene Glycol)	91433	0	91433	182866
Antimony Trioxide	83	0	83	166
Titanium dioxide	830	0	830	1660
Spin Finish oil	730	930	1368	3028
Modifier	41	0	41	82
Polyester chips (Intermediate Products)*	0	127750*	0	127750

There will be no change in coal consumption due to proposed amendment in product mix:

Fuel	As Per EC For All 3 Phase	Actual consumption	Consumption in proposed boiler	Remark
Coal	6000 MT / Month	3000 MT/month	2000 MT/month	No Change

Fresh water for domestic and industrial purposes is proposed to be obtained from the Sardar Sarovar Narmada Nigam Limited. PP has existing water allocation of 2000 KLD. Previously, the PP has obtained EC for water consumption of 4407 m^3/day (3664.6 m^3/day fresh water + 742.4 Recycle water) for all the three phase. However during the operation phase,PP informed that the usage of water is found to be less and accordingly the revised water consumption for the project considering the addition of PSF plant is given in table below:

Purpose	As per EC	Proposed Amendment
Softner plant • Cooling make up	3982 m^3/day • 3908 m^3/day	3264 m^3/day • 3100 m^3/day
DM plant • Boiler make up • Cutter • Spin oil	235 m^3/day • 106 m^3/day • 14 m^3/day • 92 m^3/day	378.5 m3/day • 204 m^3/day • 14 m^3/day • 149 m^3/day
Process water	150 m^3/day	169 m^3/day
Drinking water	40 m^3/day	56 m^3/day
Total water consumption	**4407 m^3/day**	**3867.5 m^3/day**

As per revised water consumption, fresh water consumption to the tune of 539.5 m^3/day is reduced**.** Accordingly waste water generation is as bleow:

Source	As per EC application m^3/day	Proposed Amendment m^3/day	Disposal plan
Softener Reject	74	84	To be collected in neutralization pit and reused through RO plant. RO permeate will be used in green belt and cooling tower
DM plant Reject	23	50.5	
Cooling Towers blow down	586	468	
Boiler Blow Down	8	19	
Spin oil Reject	8	34	Proposed to be sent to ETP and after treatment partly recycle back to system and partly reused for green belt development, dust suppression and cooling tower within premises
Process Waste water	150	126	
Waste water from Main Plant	300	331	
RO Reject	276.6	306.8	Proposed to be be used in scrubber and than dust suppression
Domestic	24	--	Disposed in soak pit/ septic tank
Total waste water	1449.6	1246.3	

With proposed amendment, quantum of reduction of waste water generation is 203.3 m^3/day.Stack details for existing and proposed emission is as under:

Exiting Stack details			
Stack attached to	No. of stacks	Stack Height from GL, meters	APC
HTM Heater	1 nos.	50 m	Cyclone dust seperator, wet scrubber
Gas engine	12 nos.	30.5 m	Adequate stack height
Proposed Stack details			
Stack attached	No. of	Stack Height from GL,	APC

to	stacks	meters	
Steam Boiler	1 no.	1 x 51 m	ESP

Details of Spin finish oil consumption is as under:

Sr No.	Full name	State -solid, liquid or gas	No. of container & Size		Storage Parameters		Rate of ConsumptionMT/month*
			No.	MT	Pressure Kg/cm2	Temp. °C	
1	Spin Finish Oil	Liquid	1 container	1000 liter container	NA	NA	24 MT/month

Details of proposed hazardous waste generation is as under:

Sr. No	Name of the waste generated	Nature of waste generated-solid, liquid or gas	Source of Waste Generation	Quantity of total waste MT/day	Mode of handling/disposal
1	Used oil	Liquid	Machine operation	20 KL/Annum	Sell to approved recyclers
2	Discarded containers	Solid	Spin finish oil supply	2708 nos/year	Sell to approved recyclers
3	ETP sludge	Semi-solid	ETP	110 MT/annum	Sent to the TSDF site

Observations & Discussions:

Presentation made by the proponent included the general information about the project, plant layout, raw material & resource consumption, manufacturing process, revised water balance diagram & waste water treatment scheme, hazardous waste generation and its disposal etc. Committee noted that earlier this

unit has obtained Environmental clearance and project proponent has applied for amendment in product mix including Polyester Staple Fibre to produce 1,10,000 MTPA along with POY/FDY/DTY/ Chips: 1,63,750 TPA, hence total quantity remains 2,73,750 MTPA. As PP has obtained EC and has applied for EC to include PSF in product mix, Looking to the low pollution potential and presentation made by the PP committee unanimously decided to categorize the proposal under B2 category and following additional information was sought from the project proponent for appraisal of the project.

1. Compliance of MoEF&CC circulars vide No: J-11011/618/2010-IAII(I) dated 30/05/2012 and J-11013/41/2006-IA-II(I) dated 20/10/2009.
2. Need for the proposed expansion should be justified in detail.
3. Copy of earlier EIA report showing production in Phase wise manner.
4. Demarcation of proposed facilities in lay out plan of the existing premises. Provision of continuous unobstructed peripheral open path within the premises for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
5. Existing as well as proposed monthly production details with raw material consumption for each product.
6. Details of Existing product with proposed product mix including applicable changes in water consumption, waste water generation, fuel consumption, additional utilities with proposed air pollution control measures, hazardous waste generation if any for all the three phases of the project.
7. Manufacturing process along with chemical reactions and mass balance.
8. Exact source of water supply during the operational phase of the project and permission of the concerned authority for water supply as per the requirement of the project.
9. Detailed water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated from all sources including Boilers, Cooling Towers, D.M. Plant etc. Details of methods to be adopted for the water conservation.
10. Complete waste water management plan for existing as well as proposed production. Characteristics of untreated and treated wastewater. Detailed effluent treat ability study vis-à-vis adequacy and efficacy of the treatment facilities for existing as well as proposed for the wastewater to be generated along with adequacy and efficacy report. The characteristic on which treatability is based shall also be stated.
11. Complete details of zero liquid discharge with its viability, feasibility including technical details of RO system if any.
12. Details of the ETP units including its capacity, size of each unit, retention time and other technical parameters and details about up-gradation in the existing ETP (if any proposed) to take care of the wastewater to be generated after the proposed expansion.
13. Justification regarding reduction in waste consumption and waste water generation.
14. Undertaking stating that a separate electric meter will be provided for the ETP, UF/RO & other waste water treatment facility.
15. Economical and technical viability of the effluent treatment system to achieve zero discharge during rainy days.
16. Application wise break-up of treated effluent quantity to be recycled / reused in various applications like washing, domestic, gardening and plantation etc. Details about availability of open land for utilizing the treated water for plantation / gardening. Suitability of use of treated effluent / sewage on the land with respect to the soil characteristic and its capacity to take up effluent load etc. shall be

studied and a report in this regard shall be submitted.

17. How it will be ensured that treated effluent/sewage won't flow outside the premises linked with storm water during high rainy days. Detail on provision and capacity of a tank for storage of treated effluent during high rainy days when treated effluent disposal by irrigation is not feasible.
18. Treated effluent management plan during monsoon season when utilization of treated effluent for gardening & plantation purpose is not feasible.
19. 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 (iv)List the sources of fugitive emission from the unit along with proposed measures to control it.
20. Legal undertaking regarding no increase in fuel consumption after proposed expansion.
21. Latest base line status of the ambient air quality in upwind and downwind location of the proposed project, noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
22. Impact of the transport of raw material and finished product on the existing transport system should be assessed and provided. Whether any additional infrastructure is required to be constructed, details thereof and the agency responsible for the same with time frame.
23. 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.
24. Copy of membership certificate of Common Environmental Infrastructure like TSDF, if any taken, should be incorporated.
25. A detailed EMP including the protection and mitigation measures for impacts 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-minimisation, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
26. 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.
27. Fire fighting arrangement and requirement of its strengthening due to proposed augmentation. This should include details of automatic detection and control system & detailed control plan showing hydrant pipeline network, provision of DG Sets, diesel driven fire pumps for operation during power disruption, jockey pump, fire water monitor, toxic gas detectors, fire / foam tenders etc.
28. Detailed risk assessment report including prediction of the worst case scenario and maximum credible accident scenario along with damage distances and preparedness plan to combat such situations and risk mitigation measures.
29. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, terminal staff for safety related measures.
30. Detailed disaster management plan. This should include also scenario of natural catastrophe like earth quake, cyclone and tsunami in addition to other disasters. The plan should include the details

of (i) Emergency lighting plan (ii) details of power back up system in the case of emergency (iii) fire fighting arrangements (iv) first aid arrangement (v) Training and Mock drill (vi) Emergency announcement system (vii) Signages (viii) location of emergency stair cases and pathways etc.

31. 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.
32. 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.
33. Compliance status of the existing unit with respect to various conditions given in the previous Environment Clearance, Consent to Establishment and Consolidated Consent and Authorization order obtained for the existing plant. Records of any legal breach of Environmental laws i.e. details of show- cause notices, notice of direction closure notices etc. served by the GPCB to the existing unit in last three years and actions taken then after for prevention of pollution.
34. Last three years analysis report for the sample taken under Air Act 1981, Water Act 1974 and Hazardous Waste Rules by the Gujarat Pollution Control Board.
35. Details of fatal / non-fatal accidents, loss of life or man hours, if any, occurred in the existing unit in last three years and measures proposed to be taken for avoiding reoccurrence of such accidents in future.
36. Whether any litigation pending and / or any direction / order passed by any Court of Law against the company, if so, details thereof.

The project shall be appraised on satisfactory submission of the above.

16	SIA/GJ/IND2/16144/2016	**M/s: Chhatariya Dyestuff Pvt Ltd ,** S. No. 129/2 of Village - Nesvad, S. No. 63/p of Village- Umniyavadar, S. No. 219/2/1 of village- Mahuva, ta - Mahuva, Dist - Bhavnagar.	Screening & Scoping

Project / Activity no.: 5(f)

- M/s: Chhatariya dyestuff Pvt. Ltd. herein after Project Proponent – PP) has submitted application for new project on dated 20/06/2016.

Project status: Expansion

Project / Activity Details:

Proposed products are as below:

No.	Name of Product	Quantity (MT/Month)		
		Existing	Proposed	Total
1	Acid Black –1	15	Nil	15
2	Direct Black – 56			
3	Acid Brown – 14			
4	Acid Orange –24			
5	Acid Black 210	Nil	55	55
6	Acid Black 168			

7	Acid Red 97			
8	Acid Black 234			
9	Acid Brown 75			
10	Acid Brown 161			
	Total	15	55	70

This is a proposal for expansion and proposed production activity falls in the project/activity 5(f) as per the schedule of the EIA Notificaiton-2006.Total plot area is 12,952 $m^{2.}$. Green belt area is 4000 $m^{2.}$ Total cost of project is Rs.2.2005 Crores. Water will be sourced from GWIL (Gujarat Water Infrastructure Limited).Details of water consumption and waste water generation is as under:

Maximum Quantity of Water Consumption (KL/Day)				Maximum Quantity of Waste Water generation (KL/Day)		
Description	Existing	Proposed	Total After Expansion	Existing	Proposed	Total After Expansion
Domestic	0.5	0.5	1.0	0.4	0.4	0.8
Gardening	Nil	2.0	2.0	Nil	Nil	Nil
Industrial						
Process	3.5	10.5	14.0	4.0	-4.0	Nil
Scrubber	Nil	1.0	1.0	0	1.0	1.0
Washing	1.0	0.5	1.5	1	0.5	1.5
Boiler	1.0	2.0	3.0	0.2	0.4	0.6
Cooling (make-up)	1.0	0.5	1.5	0.01	0.09	0.1
Total	7.0	17.0	24.0	5.61	-1.61	4.0

Domestic water consumption will be around 1 KLPD and sewage of 0.8 KLPD will be disposed to soak pit via septic tank.Gardening water consumption will be 2 KLPD. Industrial water consumption 21.0 KLPD and effluent generation will be 3.2 KLPD, which will be treated in effluent treatment plant and will be spray dried in our unit to obtain zero discharge. For existing manufacturing activity, effluent is sent to incinerator for zero discharge however for proposed expansion, PP has proposed to dismantle Incinerator and It is proposed to install Spray Dryer for Zero discharge of effluent.

Unit has proposed following sources of air emission.

No.	Stack attached To			Stack Ht (m)	Air Pollution Control System	Pollutants		
	Existing	Proposed	Total			SPM Mg/NM^3	SO_2 ppm	NO_X ppm
1.	Boiler Capacity: 1 TPH	---	Boiler Capacity: 1 TPH	30	N.A	<150	<100	<50
2.	Incinerator Capacity: 1000 Lit/hr	*To be Dismantled*	*To be Dismantled*	30.5	Water Scrubber	<150	<100	<50

3.	---	D.G.Set Capacity: 200 KVA	D.G.Set Capacity: 200 KVA	11	N.A	<150	--	--
4.	---	Hot Air Generator-1	Hot Air Generator-1	20	Water Scrubber	<150	<100	<50
5.	---	Hot Air Generator-2	Hot Air Generator-2	20	Water Scrubber	<150	<100	<50

Fuel consumption details is as under:

No.	Type of Fuel			Fuel Used in	Quantity		
	Existing	Proposed	Total		Existing	Proposed	Total
1.	L.D.O	---	---	Existing Boiler	3 MT/Month	-3 MT/Month	0
2.	---	Coal/ Agro Waste	Coal/ Agro Waste	Existing Boiler	0	4 MT/Month	4 MT/Month
2.	LDO	To be discontinued	To be discontinued	Incinerator (To be dismantled)	55 Lit./hr.	-55 Lit./hr.	Nil
3.	---	Diesel	Diesel	D.G.Set (200 KVA)	---	30 Lit/Hr	30 Lit/Hr
4.	---	Coal/ Agro Waste	Coal/ Agro Waste	Hot Air Generator-1 & 2	---	3 MT/Day	3 MT/Day

For existing plant, there is no process vent however for proposed expansion, process vent detail is as under:

No.	Vent attached To	Vent Ht (m)	Air Pollution Control System	SPM mg/NM^3
1.	Spray Dryer-1 Capacity: 500 Lit/hr (For product)	20	Water Scrubber	< 150
2	Spray Dryer-2 Capacity: 1000 Lit/hr (For ETP)	20	Water Scrubber	< 150

Details of hazardous solid waste management and disposal

Sr. No.	Type of Hazardous Waste	Quantity			Management
		Existing	Proposed	Total	
1.	Used Oil	0.5 KL/Yr.	0.5 KL/Yr.	1 KL/Yr.	Storage into carboys and ultimately sell to registered re refiners

2.	Discarded bags/liners	600 Nos./ Month	400 Nos./ Month	1000 Nos./ Month	Reuse for product packing and leftover bags/liners reused for collection, packing and storage of wastes.
	Discarded Containers				Storage into dedicated storage area and ultimately return back to raw material supplier.
3.	ETP Sludge and Spray Drying Ash	Nil	10 MT/month	10 MT/month	Collection, Storage, Transportation and Disposal to TSDF Site of SEPPL, Bhachau for Land filling.
4.	Incineration Ash (Incinerator Dismantle)	0.48 MT/Month	-0.48 MT/Month	Nil	Storage after packed in to bags at dedicated hazardous waste storage area having cover on the top and leachate collection system. Leachate (if any) collected and incinerated in our incinerator. Ultimate disposal of incineration ash to the secured landfill site.

Observations / Discussion:

Technical presentation by the PP included general information, details of products and raw materials, Waste generation, hazards & control, analysis of pollution parameters before and after treatment, Risk estimation etc. Issues related to treatability of the waste water, scope of treated waste water to be evaporated through spray drier after dismantling of existing incinerator, safety and occupational health etc. were discussed. During the meeting, the project proponent requested for categorizing the project as B2 and to exempt them from carrying out detailed EIA study which was not considered by the committee and the project proponent was asked to include the following TORs for the EIA study to be done covering 5 km radial distance from the boundary of the project.

1. Copies of land possession documents including status of land for non-agriculture purpose in the name of project proponent.
2. Need for the proposed expansion should be justified in detail.
3. Demarcation of proposed expansion activities in lay out of the existing premises.
4. Exact details about additional infrastructural facilities, plant machineries etc. required for the proposed expansion
5. Present land use pattern of the study area shall be given based on satellite imagery.
6. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
7. Chemical name of each proposed product to be manufactured. Details on end use of each product.
8. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
9. Details of manufacturing process / operations of each product along with chemical reactions (Stoichiometry), mass balance, consumption of raw materials (MT per MT of the product and MT/Month) etc. Details on strategy for the implementation of cleaner production activities.

10. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Status of permission obtained from the GIDC/concern authority for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
11. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the manufacturing processes. Exhausted Scrubbing media, washing streams, waste water from utility section etc. shall also be included.
12. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
13. Segregation of waste streams and details on specific treatment and disposal of each stream.
14. Action plan for 'Zero' discharge of effluent shall be included.
15. Capacity of the proposed ETP [KL/day]. Details of ETP including dimensions of each unit along with schematic flow diagram. Inlet, transitional and treated effluent qualities with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters. Inlet effluent quality should be based on worst case scenario considering production of most polluting products that can be manufactured in the plant concurrently.
16. Capacity of the spray dryer [Lit./hr]. Technical details of spray dryer including evaporation capacity, hot air required for evaporation, adequacy of the proposed Hot air generator for spray drier etc. Techno-economical viability of the evaporation system. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
17. Capacity of the RO system [KL/hr including % of Rejection stream and Permeate stream]. Technical details of Reverse Osmosis (RO)/Neno Filtration (NF) system.
18. Detailed effluent treat ability study vis-à-vis adequacy and efficacy of the treatment facilities for existing as well as proposed for the wastewater to be generated along with adequacy and efficacy report. The characteristic on which treatability is based shall also be stated.
19. Undertaking stating that a separate electric meter and flow meters will be provided for the ETP, RO system and Spray Dryer. Proposal for provision of operational logbook for EMS.
20. Economical viability and technical feasibility of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
21. Application wise break-up of effluent quantity to be recycled / reused in various applications.
22. 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.
23. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
24. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
25. 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.

26. One complete season baseline 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.
27. 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.
28. Baseline status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
29. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.
30. Details of soil analysis within the study area including project site, details of ground water table including water quality showing all parameters included in IS:10,500.
31. Details on 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. Methodology of de-contamination and disposal of discarded containers and its record keeping.
32. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
33. Complete management plan for By-products/Spent acids to be generated, along with the name and address of end consumers to whom the by-product/s will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-products/Spent acids from the proposed project.
34. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent. Details of Leak detection and repairing programme (LDAR) for VOCs.
35. 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.

36. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
37. 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. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
38. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
39. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities 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.
40. MSDS of all the products and raw materials.
41. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
42. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
43. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
44. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
45. 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.
46. Detailed socio-economic development measures 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.
47. 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.

48. (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.
49. 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.
50. 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.
51. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
52. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
53. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.
54. Copies of Environmental Clearances obtained for the existing plant, its point wise compliance report.
55. Environmental audit reports for last 3 years and compliance of its recommendations/Suggestions. (Include latest audit report and its compliance.)
56. Copy of Consent to Operate (CC&A) obtained along with point wise compliance status of all the conditions stipulated therein.
57. Compliance of MoEF&CC circulars vide No: J-11011/618/2010-IAII(I) dated 30/05/2012 and J-11013/41/2006-IA-II(I) dated 20/10/2009.
58. Copies of XGN generated Inspection reports with analysis reports of the water/Air/Hazardous samples collected by GPCB (Last 3 years). Copies of instructions issued by GPCB in last 3 years and point wise compliance thereof.
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&CC's sector specific EIA Manual for synthetic organic chemical industry 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 after receipt of the final EIA report.

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 27/08/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also

	recommendation of the SEAC.		
17	SIA/GJ/MIS/12167/2015	**M/s: Ahir Salt & Allied Products Pvt. LTd.,** Surevy No. 573, Paiki on K.K. Road, Vill. Mithirohar, Ta. Gandhidham, Dist. Kutch	TOR Amendment

Project / Activity No.: 7 (e) and 6 (b)

Project status: New

Chronology of EC Process:

- M/s: Ahir Salt & Allied Products Pvt. Ltd (herein after Project Proponent – PP) has submitted application vide their online proposal no.SIA/GJ/MIS/12167/2015 for amendment in ToR
- Earlier project proponent was issued TOR during the screening & scoping of the project for revival of existing Jetty at Mithirohar near Kandla, Gandhidham, Kutch in the SEAC meeting held on 19/05/2015 and subsequently ToR amended in the SEAC meeting dated 27/11/2016 with reference to their online proposal no.SIA/GJ/MIS/2313/2015 for amendment in ToR.

The project proponent along with their expert / consultants remained present during the meeting. PP has submitted Revised Form-1 and relevant details. The case was considered for amendment in ToR. Based on the information furnished by the project proponent and presentation made during the meeting, Committee unanimously decided for the amendment sought and now project/activity details shall be read as under:

Project / Activity Details:

Unit has proposed for revival of existing Jetty and Isolated storage and handling of hazardous chemicals at Mithirohar near Kandla, Gandhidham, Kutch. The existing jetty was earlier owned and operated by Ahir Salt & Allied Products Pvt. Ltd. (ASAPPL) and was known as Salt Jetty. PP has proposed to reconstruct a Jetty Project with backup storage area, pipeline, road connectivity, Railway line & sidings and proposed to handle 0.30 MMTPA liquid cargos and 0.60 MMTPA solid cargos. The project falls in the project activity 7(e) and 6(b) as per the schedule of the EIA Notification-2006. As the cargo handling capacity of the project is <5 MMTPA, it is a category B project. Total cost of the project will be 242.46 Crores (For Jetty is Rs. 81.92 Crores and for Back-up area Rs. 160.53 Crores). The project site is located at longitude 70º13'6.11"E and latitude 23002'57.38"N. Available Water front area is 230 meters. ASAPPL have 1317.56 acre land under lease, from Government of Gujarat for salt production. Out of this lease area, 94.56 acre land will be converted as back up area for jetty development. The proposed Jetty will be open type piled jetty. Dimension of berth: 230 m x25 m with 2 ships berthing at a time. Approach ramp on piles will be 40 meters. Salient features of the proposed project are as under:

➢ After revival cargo handling capacity	➢ 0.30 MMTPA liquid cargos and 0.60 MMTPA solid cargos.
➢ Proposed Revival of jetty	➢ Open type piled jetty ➢ Dimension of berth: 230 m x25 m with 2 ship berthing at a time ➢ Approach ramp on piles 40 meter ➢ 94.56 acre land as backup area for Port purpose
➢ The optimum size of the vessel operating	➢ 3000 - 20000 DWT (required Draught of 9 meter)
➢ Dredging Requirement:	➢ The capital dredging is estimated to be 28,788 m3. The dredged out material shall be utilized for

➢	reclamation work. Maintenance dredging will be around 2000 m3 once in every three years. Dredging depth is 3 meter.
➢ Dry Cargo handling	➢ Through two mobile harbor cranes loading/Unloading dry cargo from Ship ➢ Dry cargo will be handled from Ship to concerned open plot by truck/tipper.
➢ Liquid Cargo	➢ The import/Export liquid cargo will be handled only through pipe line from Ship to concerned terminal and also from terminal to Ship.
➢ Liquid Cargo storage facilities	➢ The storage capacity for Class A/B/C chemicals will be 26,244 KL and for edible oil & non-edible oil capacity will be 66,244 KL. ➢ Number of tanks 9 for class A/B/C chemicals and 35 Tanks for edible oil & non-edible oil.
➢ Solid Cargo storage facilities	➢ Solid/dry cargo capacity will be 2,40,000 MT on open plot as well as warehouses
➢ Liquid Cargo to be handled	➢ Chemicals Class A/B/C or Unclassified chemicals such as Acetone, Benzene, EDC, Ethyl alcohol, Hexane, IPA, Methanol, Solvent Naphtha (C9), Toluene, ACN, N-Butanol, Phenol, Aniline Oil, Cyclohexanone, Nonene, Para Xylene, LDO, FO, Crude oil, Fuel oil, Motor Spirit, Kerosene, Aviation fuel, HSD, Lubricating Oil, Naphtha, Furnace Oil, Low Sulphur heavy stock, MEK, MIBK, Butyl acetate, IBA, Ortho xylene& Edible Oil and Non-edible Oil
➢ Dry Cargo to be handled	➢ Salt, Coal, Sulphur, Rock Phosphate, Minerals, Scrap, Fertilizer, Other Bulk Cargo, Timber logs.

Total water requirement will be 45 KL/day (15 KL for Industrial & 30 KL for Domestic & Gardening). Source of water supply is Gujarat Water Infrastructure Ltd.(GWIL). Industrial waste water 10 KL/day will be treated in ETP and after treatment waste water will be used for gardening. Domestic effluent (25KL/day) will be treated in proposed STP and after treatment waste water will be used for gardening. Unit has proposed two DG sets (capacity 250 KVA & 1500 KVA) as stand-by arrangement. Diesel (284 kg/hr) will be used as fuel for DG sets. PP presented that there will be hazardous waste like used oil- 20 L/month, oil waste- 75 L/month, ETP sludge 1.5 MT/ year &pigging waste- 100kg/month. Committee observed that initially ToR was issued in the SEAC meeting dated 19/05/2016. Committee informed that the validity of the ToR is for 3 years from the dated 19/05/2015 which was agreed to by the project proponent. During the meeting, after deliberation on various aspects, the committee asked the project proponent to consider model TORs mentioned in the MoEF&CC's Technical Guidance Manual (TGM) for Ports and Harbors - 7 (e) and Isolated storage and handling of hazardous chemicals – 6 (b) as well as the ToR prescribed during the earlier SEAC meetings held on 19/05/2015 and 27/11/2015:

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 18/05/2018.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the

expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

18	SIA/GJ/IND/10635/2014	**M/s: M.D. Inducto Cast Ltd.,** Plot no:144, Paiki 1&2, Vill: Nesada, Ta: Sihor, Dist: Bhavnagar	Appraisal

M 06.06.2016

Project / Activity No.: 3(a), (c)

- M/s: M.D. Inducto Cast Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 10/09/2014.
- The project was considered for TOR finalization in the meeting of the SEAC held on 08/12/2014.
- TOR was prescribed for the EIA study to be done covering 10 Km radius from the project boundary.
- Public hearing was arranged by Gujarat Pollution Control Board on 18/01/2016.
- EIA Report prepared by M/s: Pollution and Ecology Control Services, Nagpur was submitted by project proponent on 29/03/2016. (Online proposal no. SIA/GJ/IND/10635/2014 dated 17/03/2016).
- The project proponent attended the meeting scheduled for appraisal of the project on 06/06/2016 before the SEAC.
- Technical presentation made during the meeting by project proponent. During the presentation Committee observed that the Public hearing was scheduled at a distance of 6 Km from the project site as per the representation received in writing. Upon asking about the justification for selection of venue for the public consultation, project proponent could not reply satisfactorily. After detailed deliberations, Committee unanimously decided to consider this case for further appraisal only after submission of the satisfactory justification for selection of venue for the public consultation.
- Project proponent has submitted reply for the additional information sought vide their letter on 27/06/2016.

Project status: Expansion

Project / Activity Details:

This is a expansion project for manufacturing of M.S. Billets, M.S. Ingots, TMT Bars, Angles, Channels as tabulated below:

Sr. No.	Product details	Existing Capacity MT/Annum	Proposed Expansion MT/Annum	Total after expansion MT/Annum
1	M.S. Billets and M.S. Ingots	30000	450000	480000
2	TMT Bars Angles, Channels	30000	450000	480000

The project falls under Cat. 3 (a) (c) Secondary metallurgical processing industry [ii] All other non-toxic secondary metallurgical processing industries as per the schedule of the EIA Notification, 2006.

Expected cost of the project is Rs. 25 Crores. No additional land is to be acquired as the expansion is proposed within the existing premises of the unit. Total area of existing premises is 62423 sq. m. Unit has proposed 33% area of total acquired land for green belt development. Spnge Iron and MS Scrap will be used as raw materials. Total raw water requirement will be 500 KL/day which will be sourced from Gujarat Water Infrastructure Limited. No industrial effluent generation is envisaged. Domestic waste water will be disposed off into soak pit system. At present there is one Induction Furnace with capacity 25 TPH. Unit has proposed two induction furnaces with capacity 25 TPH each. One no. of Producer gas plant will be installed for gasification of coal to generate producer gas and this producer gas will be fired in the Reheating furnace to maintain the required temperature inside the furnace. Total coal consumption will be 4800 MT/Annum. Fume extraction system, Multi cyclone & Bag filters will be provided as air pollution control system. Slag - 24000 MT/Annum from the Melting Furnace will be used for hardening of internal roads/working area. Tail cuttings – 14400 MT/Annum will be reused in induction furnace. Nearest village Nesada is @ 0.5 KM from the site.

Observations/Discussions: Technical presentation made during the meeting by project proponent. Committee observed that PP has submitted detailed justification for the selection of venue for the public consultation. Committee also noted that the venue of the public hearing was within the study area and project proponent have put ample efforts to publicize the Public hearing event by different ways as per the EIA notification. Baseline Environmental status in and around the proposed activities indicates the existing quality of Air, Noise, Water, Soil and Socio-economic environment. The baseline environmental quality for the study period of December, January and February – 2014- 2015 has been assessed within 10 km radial distance from the proposed plant site. Windrose diagram indicates that the predominant wind directions in SE and SSE. Ambient Air Quality Monitoring (AAQM) was carried out at 9 locations during the study period for PM10, PM2.5, SO2, NOx and CO and submitted baseline data indicates that concentrations are within the prescribed NAAQS. Estimation of emissions from the plant has been made by Industrial Source Complex AERMOD View Model. As per dispersion modeling studies, the resultant ground level concentrations of SPM, NOx and SO2 at various locations are well within the prescribed NAAQS. While reviewing the EIA report, Committee observed that the details regarding water balance, reuse of waste water, specific details of Coal gasifier, flue gas & fugitive emission details and its mitigation measures etc. have not been covered properly in EIA report. After detailed discussion, it was decided to consider the project only after satisfactory submission of the following:

1. Complete water balance with existing as well as proposed scenario in tabular form.
2. Coal consumption in MT/day & MT/hr for Coal gasifier. Schematic diagram of complete system of reheating furnace and Coal gasifier with APCM & stack details.
3. Compliance of ToR no. 8, 19 and 20. (Give specific and complete details as per the respective ToR).
4. Copies of analysis reports of the water samples & Air samples collected by GPCB (Last 2 years). Copies of instructions issued by GPCB in last 2 years and point wise compliance thereof.

19	SIA/GJ/IND2/56335/2016	**M/s: Charon Pharma Chem Industries ,** S.No.183, At. Hardesan, Ta. & Dist.: Mehsana.	Appraisal

Project / Activity No.: 5(f)

- M/s: Charon Pharma Chem Industries herein after Project Proponent – PP) has submitted TOR application for new project on dated 09/09/2015.

- Proposal was considered during SEAC meeting held on 17/11/2015 and during screening and scoping, committee asked details regarding satellite image showing the nearest residential area and other environmental entities, land possessing documents and legal undertaking as per amended EIA Notification, 2006 vide SO 1599 (E) dated 25/06/2014.
- PP submitted the aforementioned information on 27/11/2015.
- Project proponent called for presentation in the SEAC meeting dated 23/03/2016 and looking to the low pollution potential the project was considered as B2 project.
- Subsequently PP applied for EC vide proposal no. SIA/GJ/IND2/56335/2016 and submitted application on 20/06/2016.

Project status: New

Project / Activity Details:

This is a new project and proposed products are as below:

Sr. No.	Name of Proposed Products	Proposed Quantity MT/ month
1.	Poly Acrylate	100
2.	Poly Acrylate Dispersion	50
3.	Poly Methacrylates	25
4.	Poly Methacrylates Dispersion	50
	Total	250

List of raw materials to be used are as under:

Sr. No.	Name of Raw Material	Total Consumption (MT/Month)
1.	Ethyl Acrylate	87.6
2.	Acrylic Acid	63.9
3.	Methyl Methacrylate	41.1
4.	Methacrylic Acid	34.85
5.	Solvents (Benzene / IPA) only Loss Qty.	0.625
6.	Emulsifier	1.0
7.	D.M. Water	100

The proposed production activity falls in the project/activity 5(f) as per the schedule of the EIA Notificaiton-2006.Total cost of project is Rs. 2.65 Crores. Total plot area is 8296 $m^{2.}$,green belt area is 3000 m^2. Based on the LD_{50} (mg/Kg) the toxic chemicals used in unit are Acrylic Acid, Ethyl Acrylate, Methacrylic Acid etc and pp informed that they will make provision for safety goggles, face mask, rubber hand gloves to the workers during handling of this chemical. Details of water consumption and waste water generation is as under:

Water Consumption (L/Day)		Waste Water generation (L/Day)	
Domestic	1000	Domestic	700
Industrial		Industrial	
Process	5000	Process	0
Washing	500	Washing	500
Boiler	4000	Boiler	400
Cooling	3000	Cooling	0
Gardening	3000	Gardening	0
Total	16500	Total	1600

Water source is though tanker. Industrial waste water generation will be 0.9 KLPD and domestic waste water generation will be 0.7 klpd. Treated effluent will be used for gardening and plantation purpose. Domestic wastewater will be disposed off in to soak pit.

Source of flue gas emission is as under:

Stack No	Stack Attached To	Stack Height (meter)	Parameter	Permissible Limit
1	IBR Boiler (Capacity: 1000 kg /hr)	33	Particulate Matter SO2 NOx	150 mg/Nm3 100 ppm 50 ppm
2	Thermic Fluid Heater -1 (Capacity: 2lacs kcal)	11	Particulate Matter SO2 NOx	150 mg/Nm3 100 ppm 50 ppm
3	Hot Air Generator	11	Particulate Matter SO2 NOx	150 mg/Nm3 100 ppm 50 ppm
4	D.G. Set -1 125 KVA	9	SO2	100 ppm

Fuel consumption will be as under:

Sr. no.	Fuel used	Fuel Consumption
1	wood	500 Kg/day
2	Diesel	20 Liter /Hr

Process gas emission will be from spray drier of capacity 300 litre per hour with APCM as multi cyclone

and bag filters.

Sr. No.	Stack attached To	Stack Height	Air Pollution Control System	Pollutants
1.	Spray Dryer Capacity: 300 liter	20 m	Multi cyclone dust collector followed by Bag Filter	SPM < 150 mg/NM3

Details of hazardous waste will be as under:

Sr. No.	Type of Waste	CATEGORY	Quantity	Management and handling
1.	ETP Waste	34.3	0.6 MT/Year	Generation, Collection, storage , transportation and disposed off to TSDF
2.	Discarded Drums and Containers	33.3	2.0 MT/year	Collection ,storage, and sale to registered recycler.
3.	Used Oil	5.1	15 L/ year	Collection, storage, and sale to registered recycle.

PP has informed that their proposal does not include chemicals having major accident hazards(MAH) and an undertaking in this regard is also submitted.

Observations & Discussions:

During SEAC meeting held on 17/11/2015,technical presentation included project details, details of raw materials and its quantity properties of the products etc. Committee observed that the proposed project is located outside the notified area and PP has could not reply satisfactorily regarding nearest habitat, natural water bodies etc from the proposed site. Committee noted that based on the satellite image submitted by PP, there is a possibility of human habitats near the project site which is not clearly shown in the satellite image. At this, Committee felt that the exact distance of residential area, natural water bodies etc. shall be submitted by project proponent. After detailed deliberations during SEAC meeting on 17/11/2015,It was decided to reconsider the project for screening / scoping in one of the upcoming meetings only after submission of the following:

1. Satellite image and map showing nearest residential area/habitats from the outer periphery of the proposed site. Submit distance certificate from the concern authority.:
2. Satellite image of project site with specific details such as distance of the project site from the nearest (1) Anganwadi, School, College, Institute etc. (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 etc. and impact of proposed project.
3. Land possession document.

4. Legal Undertaking stating that unit is complying the three conditions for small unit [i.e. water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014

The project proponent was called for presentation during the meeting of SEAC held on 23/03/2016.PP clarified the aforesaid information before the committee as under:

- During presentation, PP informed that Village: Hardesan is located 995.53 meter from the outer periphery of our proposed site.
- Distance of project from various entities as per the satellite map is mentioned below:

Sr. No.	Name of Place	Distance from the project Site
1	Village - Hardesan	995.53 Meter
2	Hardesan Primary School	1.25 km
3	River – Rupen	890.11 Meter
4	River Pushpavati	6.09 km
5	Mehsana By Pass Road	4.36 km
6	State Highway	1.82 km
7	Panchot railway station	3.5 km
8	Dhinoj railway station	5.3 km
9	Mehsana Jn railway station	7.9 km
10	Mehsana Airport	7.9 Km
11	Heritage Site	No
12	National park	No

Regarding land possession documents, PP has submitted raja chitthi of Sarpanch, Hardesan Gram Panchayat, copy of NA, Approval of plan from the office of commissioner, Food and drugs control administration have been submitted. Copies of land possession with copy of 7/12, 8A, 6A and legal undertaking stating that unit is complying the three conditions for small unit [i.e. water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014 is not submitted.

After presentation before the SEAC on 23/03/2016, looking to the low pollution potential, committee unanimously decided to consider the proposal under category B2 and the additional information was sought. PP submitted reply of the additional information on 28/06/2016.Proposal is subsequently appraised and details are as under:

Land possession document with copy of 7/12, 8A, 6A and certified copy of distance certificate of the nearest human habitation is submitted by PP. Details of surrounding industrial with details like Name and address of the unit, type and nature of industrial activity etc.is submitted and is as under:

Sr. No.	**Name of Industry**	**Type of Industry**	**Distance from the unit**
1	Welable Health Care	Pharmaceutical	8.0

2	Welable Pharmaceuticals	Pharmaceutical	8.0
3	Bharat Dairy	Dairy	2.0
4	Mann Pharma	Pharma	7.0
5	Sunrise Agro	Agro	7.5
6	Vimal Micron	---	6.5
7	Sagar Rubber	Rubber	6.80
8	Prima Agro	Agro	6.9
9	Umiya Chemical	Chemical	6.7
10	Loha Rasayan	Chemical	7.2
11	Ronak Paint	Paint	6.9
12	Wellcoat paint	Paint	7.0
13	National Oil Mill	Oil	7.5
14	Ujala Packaging	Packaging	2.9
15	Shiv Packaging	Packaging	2.5
16	Maruti Plywood	Ply	2.6

Legal Undertaking stating that unit is complying the three conditions [i.e. water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014 is submitted by PP. Map with demarcation of proposed activities, details about infrastructural facilities, plant machineries is submitted. Letter of water supplier ensuring supply of water through tanker is submitted by the PP. PP has submitted water balance diagram with qualitative and quantitative analysis of waste water stream. Duringmonsoon season, PP informed that they will use treated water in cooling tower. Total water requirement in cooling tower will be 3000 Liter /Day. Out of that 900 Liter /day will be treated water and 2100 Liter per day will be fresh water.Total plot area for green belt is 3000 Sq. meter, hence PP informed that land is suitable for utilization of treated wastewater for plantation & gardening. There will be no ML generated from any products.PP further informed that they will use solvent in Polyacrylates and methacrylates and solvent will be separated after completion of reaction and reused in process again.The solvent recovery will be 99.75 %..PP informed that they will become member of Saurashtra Enviro projects Pvt ltd., Bhachau for disposal of hazardous waste(ETP Waste). For noise pollution abatement, PP proposed following measures (1)Well maintained vehicles will be used.(2)Metalled Road for Vehicle Movement.(3)Well maintained equipment will be utilized to prevent noise generation. (4). Ensure proper preventive maintenance of fuel firing system and optimization of air fuel ratio.(5)Ensure proper maintenance of machinery to reduce noise level. PP informed that separate isolated storage area will be provided for flammable chemicals with flameproof electrical fittings. There will be a provision of 15 no. of DCP fire extinguishers in unit. For fire hazards, PP has proposed to install overhead water storage tank with adequate capacity to ensure 24 hour water supply. Fire water tank with capacity of 25 KL will be

provided with fire pump (01 Nos.) Nearest fire station is Mehsana @ 15 km away from the proposed unit. PP informed to facilitate trained fire personnel. After deliberation, committee was not satisfied with waste water management plan submitted by PP for use of treated wastewater for plantation/gardening and asked PP to submit revised waste water management plan that includes complete reuse/recycle within premises. After detailed discussion, it was decided to consider the project only after satisfactory submission of the following:

1. Revised water balance considering reuse of treated waste water for industrial purpose instead of gardening / plantation. Give technical justification for change in mode of reuse of treated waste water.

20	SIA/GJ/IND2/76706/2016	**M/s: A P Process ,** Block No:413P,Jornanag-Jamnapur Road, Jornanag, Ambaliyasan, Mehsana	Appraisal

Project / Activity No.: 5(f)

- M/s. A P PROCESS (herein after Project Proponent – PP) has submitted application vide their online application vide no. SIA/GJ/IND2/76706/2016 dated 17/06/2016.
- Earlier the proposal was considered in the SEAC meeting dated 09/09/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- During the meeting, while discussing about the MAH unit, committee noted that the total use of Formaldehyde is 270 KL/Month and storage capacity of the Formaldehyde is only 5 KL. On asking, PP informed that they have come with Revised Form-1 with PFR. As per revised data requirement of Formaldehyde will be 42.3 MT/Month and storage of Formaldehyde will be less than 5 KL. However, committee noted that fresh water requirement, waste water generation, hazardous waste generation, fuel consumption data etc. remain same as per the previous data. At this committee decided to not accept the Revised Form-1. After detailed deliberations the Committee sought following additional information for further consideration of the proposal: (1) Land Possession documents and NA permission letter. Copy of rent agreement with owner of the Land. (2) Revised Form-1 and PFR with all relevant details. (3) Legal Undertaking stating that unit is complying the three conditions [i.e. water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014.
- PP has submitted additional details vide their letter dated 11/09/2015.
- The project proponent was called for presentation in the SEAC meeting dated 03/02/2016.
- During presentation, PP informed that water requirement is 19.4 KL/day. Fuel requirement is 4.61 MT/day and Chemicals to be used are not covered in MAH category. Hence, the proposed

products of Resins fall under Category B of project activity 5(f) as per the EIA Notification 2006. Total plot area is 10,508 sq. m & unit has proposed 3460 sq. m. area for the green belt development/Tree plantation.

- During the meeting, the revised form-1 and details submitted by PP was considered by the Committee. Looking to the small scale of the project and low pollution potential, after detailed deliberation, the project was categorized as B2. After detailed discussion on various aspects, following additional information was sought from the project proponent for appraisal of the project.

Project status: New

Project / Activity Details:

This is a new project proposes the manufacturing of following Synthetic Organic Chemicals.

Sr. No.	Name of Products	Proposed Quantity MT/Month
1	Phenol Formaldehyde Resin	25
2	Urea Formaldehyde Resin	40
3	Melamine Urea Formaldehyde Resin	15
	Total	80

Expected project cost is Rs.1.0 Crore. Total plot area of the proposed project will be 10508 sq.m. including 3467 sq. m for green belt/tree plantation. Aerial distance of nearest residential area of Village Jornang is @ 0.77 km. Total water consumption for proposed project will be 15.8 KL/ Day which will be sourced from own Bore Well. Domestic waste water generation will be 0.27 KL/Day and Industrial waste water generation will be 0.8 KL/Day. Industrial waste water will be treated into ETP and finally it will evaporate in Evaporator (Cap. 100 Lit./hr). Domestic waste water will be disposed off into soak pit system. It is proposed to install one Steam Boiler (4 MT/hr). White Coal / Briquettes (3 MT/Day) will be used as fuel for Boiler (4 TPH). Dust Collector Followed by Bag Filter is proposed as APCM for Boiler. No process emission is envisaged. Hazardous waste generated from the manufacturing activity will be ETP sludge & evaporation residue (7.2 MT/Year), Used Oil /Spent Oil (0.05 MT/Year) and Discarded Plastic Drums (1.2 MT/Year). ETP waste & evaporation residue will be disposed off at the Common TSDF site. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil will be sold only to the registered recyclers.

Observations & Discussions: Technical presentation made during the meeting by project proponent. While discussing about applicability of MAH unit with regard to storage of Formaldehyde, PP informed that they will store formaldehyde (37%) less than 5 MT as monthly consumption of formaldehyde is @ 48 MT and maximum daily consumption will be @ 2.5 MT. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

21	SIA/GJ/IND2/16264/2012	**M/s: Panchsheel Intermediate Ltd.,** Plot no:8101, Sachin, GIDC, Surat.	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- M/s: Panchsheel Intermediate Ltd., (herein after Project Proponent – PP) has submitted an application vide their online proposal no. SIA/GJ/IND2/16264/2012 dated 20/06/2016 along with final EIA report regarding grant of Environmental Clearance.
- Earlier the project was considered for TOR finalization in the meeting of the SEAC held on 27/09/2012 and TOR issued to the proposed project vide letter no.EIA-10-2012-1377-E/172 dated 12/02/2013.
- REIA Report prepared by M/s: Ramans Enviro Services Pvt. Ltd., Ahmedabad was submitted by project proponent vide dated 26/05/2014.
- Project opponent was called for presentation in the SEAC meeting dated 20/08/2014.
- During the meeting, the committee was of the view that the project proponent will have to carry out public hearing in view of the MoEF&CC's O.M. No.-11013/36/2014-IA-I dated 16/05/2014. It was decided to further appraise the project only after carrying out public hearing of the project by Gujarat Pollution Control Board and submission of the following: (1)Revised EIA report incorporating 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. Commitments made by the project proponent on the same should be included.
- During the meeting dated 29/04/2015, Committee decided to exempt this project from carrying out public consultation as per the MoEF&CC's OM no. J-11013/36/2014– IA-I dated 10/12/2014.

Project / Activity Details:

This is an existing unit engaged in the production of various solvent dyes & acid dyes-6 MT/month. The unit now proposes the manufacturing of additional products in addition to the existing products with ultimate production capacity of 34.5 MT/m i.e effective production increase of @ 28.5 MT/m. Details of the proposed products with their production capacity are as under.

Sr. No.	Group of Products	Product Name	Quantity (MT/month)
1	Oxidation based products	Solvent blue 35, Solvent blue 36, Solvent blue 45, Solvent violet 13, Solvent green 3, Solvent green 28, Solvent violet 37, Solvent green 5, Solvent green 7	9.0
2	Sulfonation based products	Solvent blue 70, Solvent blue 122, Solvent blue 104	5.0
3	Metallization based products	Solvent orange 114, Solvent Red 270, Solvent Red 52, Solvent Red 23, Solvent Red 24, Solvent Violet 14	7.5
4	Condensation based products	Solvent orange 63, Solvent orange 60, Solvent yellow 93, Solvent red	7.0

		235, Solvent red 111, Solvent yellow 160, Solvent yellow 43, Solvent red 195, Solvent red 196	
TOTAL			28.5

Observations & Discussions:

During the meeting, Committee observed that the validity of TOR is already expired as the Validity of TOR is 3 years as per the MoEF&CC's OM dated 08/10/2014. Committee also observed that the study period for the EIA preparation was December – 2011 to February – 2012. Committee was of the view that the project proponent will have to start the process *de novo* after obtaining fresh TORs as the primary data used in preparation of EIA/EMP report are more than 3 years old and validity of TOR is already expired. Committee unanimously decided to close the file and asked project proponent to start the process de novo after obtaining fresh TOR which was agreed to by the project opponent.

22	SIA/GJ/IND2/11370/2015	**M/s: CRL Terminal Pvt. Ltd.,** Near Oil Jetty, Opp. IFFCO, Old Kandla, Ta.: Gandhidham, Dist.: Kutch	Appraisal

Project / Activity No.: 6 (b)

- M/s: CRL Terminal Pvt. Ltd., (herein after Project Proponent – PP) has submitted an application vide their online proposal no. SIA/GJ/IND2/11370/2015 dated 05/05/2016 along with additional details sought regarding grant of Environmental Clearance.
- Earlier the project was considered in the meeting of the SEAC held on 27/11/2015.
- During the meeting, upon asking about the discrepancies between the capacity in various Permissions/Approvals and the capacity as per CC&A of the Board, Project proponent admitted that they have checked the previous CC&A of the year 2009 & year 2004 and the same discrepancies are there. Further, PP assured that operational capacity per class of product never exceeded the quantities approved by GPCB in its storage permission of the year 2000. Project proponent provided various documents regarding permissions/approvals of existing storage tanks which are summarised as below:
- GPCB issued NOC (Year 2000) for the storage permission for Petrochemical (Class A & Class C) products with the capacity for the storage of petroleum class A product – 73108 KL in 42 storage tanks and Petroleum class C products – 67130 in 15 tanks i.e. Total 140238 KL in total 57 storage tanks.
- GPCB issued NOC (Year 2005) for an additional 17328 KL storage capacity for edible and non-edible oil vide dated 01/07/2004.
- F&ED, GoG has also granted CRZ clearance for these additional 12 no.s of storage tanks having storage capacity of 17328 KL of edible/non-edible oil.
- PESO license for storage capacity of 1, 40,148 KL valid up to 31/12/2016.
- Explosive license from the District Magistrate, Bhuj for 140148 KL storage capacity, which is valid up to 31/12/2016.

- Approval letter from the office of the Industrial Safety and Health, Ahmedabad vide dated 15/02/2005 for expansion in capacity for 140238 KL to 157566 KL and its validity upto 31/12/2017.

Project proponent presented that all storage tanks were installed before year 14/09/2006 and were operational since year 2005. Looking to the licenses/permissions obtained from concern authorities for existing storage tanks, It is evident that project proponent has not made any physical expansion of their storage terminal after year 2005. Committee observed that one corner of the existing plot is covered under the CRZ area as per the CRZ map prepared by IRS, Anna university. Upon asking, PP informed that they have obtained CRZ clearance for edible/non edible oil from the F&ED, GoG. Further PP informed that there is no tanks of Solvents/Chemicals exist within the CRZ area and the proposed expansion will not take place within that CRZ area. It was observed that project proponent have obtained PESO permission for Class A & C products and now proposes to include Class B products which is having less risk potential than the Class A products. The storage capacity of Petroleum products and edible/non-edible oil will be reduced after this proposed expansion. Committee noted that there is no increase in storage capacity and no increase in pollution load. Further project proponent presented that the proposed addition of 3 storage tanks with the infrastructure improvement program will have positive impact on environment. Considering the above, the project was categorized as B2 project by the committee. After detailed deliberations the Committee sought additional information for further consideration of the proposal:

Project status: Existing

Project / Activity Details:

This is an existing storage facility for Petroleum Class A & C products and for edible & non-edible oil. The unit is now proposing expansion by addition of 2 storage tanks including major infrastructure improvement program. The set-up for existing as well as proposed expansion is tabulated as below:

Existing			Proposed		
Storage Items	Capacity	Tanks	Storage Items	Capacity	Tanks
Petroleum class A product	73108	42	Petroleum class A / B/ C products	133963	60
Petroleum class C products	67130	15			
Edible and Non-Edible Oil	17328	12	Edible and Non-Edible Oil	11037	11
	157566	69		145000 m3	71

Proposed installation of isolated chemical storage tank falls under project / activity no. 6(b) in the schedule of the EIA Notification, 2006.

No additional land will be acquired for the proposed expansion. Unit has obtained various permissions/approvals from the concern authorities for storage of Class A, C chemicals and for storage

of edible/non-edible oil. All these 69 tanks were installed before 14/09/2005. Total investment for the proposed expansion including major infrastructure improvement program will be 200 Crores. Total plot area is 96375 sq. m. Total green belt/tree plantation area is 1260 sq. m. Total water consumption will be 25 KL/day (13 KL Domestic, 7 KL Washing & 5 KL Gardening), which will be sourced from road tankers. Generated industrial waste water (7 KL per day) will be sent to CHWIF for incineration. Domestic waste water will be disposed of into soak pit/septic tank. At present unit has provided one FO based steam Boiler. Two DG sets (200 KVA and 380 KVA) are provided as stand-by facility. Unit has proposed two additional DG sets (360 KVA & 1250 KVA). Diesel will be used as a fuel for DG sets. Hazardous waste generated from the manufacturing activity will be Oily waste (720 Lit./Annum), Pigging waste (7 MT/Annum) and used oil (600 Lit./Annum).

Disposal of hazardous waste will be as per the HW Rules. This unit is a member of integrated hazardous waste management facility of SEPPL.

Observations/Discussions:

Project proponent has submitted Site Layout plan showing entry and exit, an undertaking regarding no installation of Petroleum products Class A/B/C within CRZ area, Safety details, Risk assessment report, Disaster management plan (DMP) etc. Committee observed that the proposed change in storage facility will not have major impact on the environment, however, PP has proposed mitigation measures for the overall project including existing storage facility. While reviewing the additional details submitted by PP, Committee observed that details regarding Infrastructure Improvement programme, clear distance around the new proposed storage tanks and OHSMS procedure manual are not addressed properly.

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

1. Details of storage tanks in different class/type of storage item i.e. Tank no., Storage capacity, Type of Risk/Hazard & mitigation measures (If any) etc. in tabular form. Give environmental impacts due to proposed major infrastructure program and restructuring of storage Tanks.
2. Compliance status as per the MoEF&CC Circular vides dated 20/10/2009 & 30/05/2012 regarding expansion project. Also include inspection reports of GPCB for last two years.
3. Management of hazardous waste to be generated as per the characteristics of the wastes. Handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
4. Manual namely “Safety Booklet” published by the company.

The following proponents did not remain present during the meeting:

1. Rasayan Enterprise, 36-37/26, GIDC-Nandesari, Dist.: Vadodara.

It was decided to call them in one of the upcoming meetings of SEAC.

The additional information received from the project proponents, which was sought during various SEAC

meetings, were considered by the committee during the meeting and as it was found satisfactory, the committee decided to recommend the following projects for grant of amendment in environmental clearance order.

1. M/s**.** Cluster Enviro Pvt. Ltd.**,** Survey no. S. No. 466, 468, 469, 470, 471, 472, 473, 476, 479, 482, 484, 486, 489, 490 of Village: Tranja and S. no. 58, 59 of Village Nagrama, Ta.: Matar, Dist.: Kheda.
2. M/s. Sun Light Pigment for setting up of Synthetic Organic Chemicals manufacturing plant at Plot no:48/1& 48/2, GIDC-Kalol, Dist.: Gandhinagar.

The additional information received from the project proponents M/s: Pharma inter chemie (unit II) for setting up of manufacturing of Synthetic Organic Chemicals at Plot no. 139 & 140, GIDC- Nandesari, Dist.: Vadodara, which was sought during earlier SEAC meeting for further consideration of the proposal. The said information submitted by the project proponent was considered by the committee during the SEAC meeting and as it was found that the reply regarding the Management plan for by products & hazardous waste was not satisfactory. After detailed deliberations, the Committee decided to consider the project on satisfactory submission of the following: *"Management plan for by products & hazardous waste to be generated along with the name and address of end consumers to whom the by-product will be sold. Copies of agreement/MoU/letter of intent from them, showing their willingness to purchase said waste/by-product from the proposed project."*

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.	Hardik Shah (IAS), Member secretary, SEAC.	