Minutes of the 297th meeting of the State Level Expert Appraisal Committee held on 13/07/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 297th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 13th July, 2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar. Following members attended the meeting:

1. *Shri T. P. Singh, Chairman, SEAC.*
2. *Shri V. C. Soni, Vice Chairman, SEAC.*
3. *Shri R. J. Shah, Member, SEAC.*
4. *Dr. V. K. Jain, Member, SEAC.*
5. *Shri V.N. Patel, Member, SEAC.*

The agenda of TOR/Scoping/Category 8 (a) cases, Appraisal & Reconsideration cases was taken up. Five (5) cases of TOR/Scoping/Category 8 (a), two (2) case of Reconsideration and Sixteen (16) 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.	Laxmi Nivas	S.No.597/2,606,618, FP.No.45/1,53,58/2, TPS No.80, Narol, Ahmedabad

The SEIAA, Gujarat has accorded environmental clearance to M/s Laxmi Infrastructure for the building construction project at Survey No. 597/2, 606, 618, F.P. No. 45/1, 53, 58/2, T.P.S. No.80, Narol, Dist: Ahmedabad vide order no. SEIAA/GUJ/EC/8(a)/1685/2015 dated 19/05/2015 for the built up area of 68,050.71 m^2.

The project proponent, vide their letter dated 09/09/2015 submitted revised Form I & Form IA and requested for amendment of Environmental Clearance order dated 19/05/2015 for the proposed expansion of the project. Based on their application dated 09/09/2015, the project was considered during the meeting of SEAC held on 14/10/2015. The additional details submitted by the project proponent with reference to the meeting dated 14/10/2015 was considered by the committee during the meeting held on 31/03/2016. Based on the decision taken during the meeting of SEAC held on 31/03/2016, the project was recommended by the SEAC vide letter dated EIA-10-2014-2381-E-1217 dated 16/05/2016. Based on the recommendation of the SEAC, the project was taken up in the meeting of SEIAA dated 21/05/2016. As per the decision taken during the meeting of SEIAA dated 21/05/2016, the project was referred back to SEAC vide letter No. SEIAA/GUJ/EC/ 8(a)/367/2016 dated 27/05/2016 for the following reason:

"To verify the details of parking area provided with respect to NBC guidelines & GDCR."

The project proponent along with their expert/consultant attended the meeting and it was presented that they will provide basement in the newly purchased land for providing additional parking space. Total parking space after provision of the proposed basement will be 15,394.84 m^2 [5,754.72 m^2 in hollow plinth + 4,890.12 m^2 as open surface parking + 4,750.0 m^2 in basement] which is equivalent to 565 CPS against the parking requirement of 520 CPS as per NBC norms. Due to addition of the basement, built up area of the project will increase from 90,393.49 m^2 to 95,143.49 m^2. After detailed discussion, it was decided to consider the project

only after submission of the following:

1. Revised Form – 1 & Form – 1A considering the proposed changes in the project due to addition of the basement in the project.

2.	Shree Thakornath Residency Balaji Associates	Old B.No.583 & New B.No.560/p, Village: Nandol, Ta: Dehgam, Dist: Gandhinagar.

This is a residential building construction project "Shree Thakornath Residency" at Old B.No.583 & New B.No.560/p, Village: Nandol, Ta: Dehgam, Dist: Gandhinagar proposed by M/s Balaji Associates. The project proponent has applied for obtaining Environment Clearance of the above project on 26/05/2015. Based on the application made on 26/05/2015, the project was appraised during the meetings of SEAC held on 30/07/2015 & 16/12/2015. The additional details submitted by the project proponent with reference to the meeting dated 16/12/2015 was considered by the SEAC during the meeting held on 04/05/2016. Based on the decision taken during the meeting of SEAC held on 04/05/2016, the project was recommended by the SEAC vide letter dated EIA-10-2015-7082-E-1315 dated 26/05/2016. Based on the recommendation of the SEAC, the project was taken up in the meeting of SEIAA dated 27/05/2016. As per the decision taken during the meeting of SEIAA dated 27/05/2016, the project was referred back to SEAC vide letter No. SEIAA/GUJ/EC/8(a)/390/2016 dated 31/05/2016 for the following reason:

"To verify the details of parking area provided with respect to NBC guidelines & GDCR."

The project proponent along with their expert consultant attended the meeting and it was presented that as per the NBC norms, parking requirement for the project is 280 CPS and they have proposed to provide total parking space of 8,963.90 m^2 [2,197.0 m^2 as open surface parking + 6766.90 m^2 in hollow plinth] which is equivalent to 338 CPS.

The committee was of the view that due to increasing traffic congestion and parking problems in developed areas of cities in present scenario, the projects coming up in the developing areas should also provide adequate parking spaces in order to avoid the recurrence of the same situation in the developing areas. After detailed discussion, the project proponent was suggested to increase the parking area provision for the project by providing basement, at least in half of the plot area, if not possible to provide full basement, in order to increase the parking space for the project.

After discussing the matter, during the meeting, it was decided to consider the project only after submission of the following:

1. Revised details on increased parking area provision for the project by providing basement and revised project plans with revised built up area table, revised Form – 1 & 1A with revised project details in view of provision of the basement.

3.	Al Madina Heights	R.S. No.1013/1,1013/2,1014, O.P.No.60, F.P. No.60, D.T.P.S.No.3 (Dahegam), Tal.: Dahegam , Dist.: Gandhinagar.

The project was taken up in the meeting of SEAC held on 13/04/2016. During the meeting held on 13/04/2016, the project proponent was suggested to provide solar street lights. After detailed discussion, it was decided to appraise the project further only after submission of the following:

1. Status of water supply & drainage connection network of Dahegam Nagarpalika in the area along with

the details like common STP of Dahegam Nagarpalika, its location, pumping station, final disposal point of sewage by Dahegam Nagarpalika, availability of adequate quantity of water to the nagarpalika for supplying it to the proposed project etc.

2. Copy permission from concerned competent authority for providing water supply, drainage connection and municipal solid waste collection & disposal facility to the proposed project.
3. Explore the possibility of providing solar street lights and details thereof.
4. 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.
5. Provision of two staircases in the buildings having floor area more than 500 m2 on each floor and revised plans showing the same should also be submitted.

Project proponent submitted the above mentioned details vide their letter dated 27/05/2016.

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

It was found that they have not obtained permission from Dehgam Nagarpalika for provision of water supply, drainage connection & municipal solid waste collection facility. It was presented that total 22 nos. of solar panels of 2 m^2 size will be installed on the terrace floor. It is proposed to allocate Rs. 25 lacs for the proposed EMP including waste management, green belt development, rain water harvesting through ground water recharge etc. They have mentioned that there isn't any building having floor area more than 500 m^2, but the committee observed that as per the project plan submitted by them, the building 'G' is having floor area more than 500 m^2 on each floor.

Salient features of the project are as under:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/48484/2016]
2.	Type of Project	Residential & Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Al Madina Heights
5.	Name of Developer	Alpeshkumar P. Amin
6.	Estimated Project Cost (Rs. In Crores)	18.14
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction activity has been started

<table>
<tr><td>8.</td><td>Project Details</td><td>
• Land / Plot Area (m^2) 11,487.00
• FSI area (m^2): 25,845.75
• Total BUA (m^2): 30,223.85

<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area (m^2)</td><td>25,845.75</td><td>25,845.75</td></tr>
<tr><td>Ground Coverage (m^2)</td><td>5,743.50(50%)</td><td>5,146.28</td></tr>
<tr><td>Common Plot Area (m^2)</td><td>1,148.70</td><td>1,150.00</td></tr>
<tr><td>Max. building height (m)</td><td>30</td><td>21.80</td></tr>
</table>
</td></tr>
<tr><td>9.</td><td>Building Details</td><td>
• No. of Buildings: 6
• No. of Blocks: 9
• Scope of buildings/blocks: Ground floor + 6 floors
• No.& size of Residential Units: 312
• No. & size of commercial units: 46 shops
• Details of amenities if any:---
</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Fixed population considered for the project: 1652 persons
Floating population considered for the project: 716 persons</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>
• Water requirement (KL/day): 20
• Source of water: Local water tanker suppliers
• Waste water generation quantity (KL/day): 4
• Mode of disposal: Disposal through septic tank & soak pit system
• Details of reuse of water, if any: ---
</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>
• Fresh water requirement (KL/day): 240.64
• Source of water: Dahegam Nagarpalika
• Waste water generation quantity (KL/day): 190.51
• Mode of disposal: Sewage disposal into Dahegam Nagarpalika.
</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connection of Dahegam Nagarpalika will be used.</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>1550</td><td>1550</td><td>Will be completely reused for greenbelt development.</td></tr>
<tr><td>Other excavated earth</td><td>4220</td><td>4220</td><td rowspan="2">Completely utilized for back filling, plinth filling & internal road development</td></tr>
<tr><td>Construction debris</td><td>409</td><td>409</td></tr>
<tr><td>Steel scrap</td><td>966</td><td>966</td><td rowspan="2">Will be sold to recyclers / vendors.</td></tr>
<tr><td>Discarded packing materials</td><td>2110</td><td>2110</td></tr>
</table>
Operation Phase:
<table>
<tr><td>Type of waste</td><td>Generation Quantity</td><td>Mode of waste collection</td><td>Mode of Disposal / Reuse</td></tr>
</table>
</td></tr>
</table>

		(Kg/day)		
		Dry waste & wet waste	167.50	43 nos. of bins of 80 lit capacity will be provided at various locations.	The community bins are regularly emptied by Dehgam Nagarpalika.

- Details of segregation if to be done: No
- Capacity and no. of community bins to be placed within premises: 43 nos. of bins of 80 lit capacity will be provided at various locations.
- Landfill site where waste will be ultimately disposed by local authority: ---

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 4,942.77 • Parking area requirement for residential units as per GDCR: 4,132.69 • Parking area requirement for Commercial units as per GDCR: 810.08 • Total number of CPS requirement for the project as per NBC : 188 • Number of CPS requirement for residential units as per NBC: 156 • Number of CPS requirement for commercial units as per NBC: 32 • Total Parking area provided (m^2) & No. of CPS: 5,082.85 (204 CPS) • Parking area provided in hollow plinth (m^2) & No. of CPS: 2,158.94 (77 CPS) • Parking area provided as open surface (m^2) & No. of CPS: 2,923.91 (127 CPS)
16.	Traffic Management	• Width of adjacent public roads: 24 m • Number of Entry & Exit provided on approach road/s: two gates will be provided. • Width of Entry & Exit provided on approach road/s: 7.50 mt • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width forthe plantation): 3 m • Width of all internal roads: 7.50 m
17.	Details of Green Building measures proposed.	Solar lights in common sunlit areas, maximum use of CFL lights, use of variable frequency drive motors, rain water harvesting through ground water recharge, solar panels on the terrace floor etc.
18.	Energy Requirement, Source and Conservation	Power supply: Maximum demand: 1 MW Connected load: Source: Gujarat Electricity Board.
19.	Fire and Life Safety Measures	Fire extinguishers, hose reel, wet riser, yard hydrant, manually operated electric fire alarm system, automatic detection & alarm system etc. will be provided during the operation phase.
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+C+D	G+6	1,372.78	4	1.52	<30
E	G+6	350.43	1	1.52	<30
F	H.P.+6	277.87	1	1.52	<30
G	H.P.+6	531.34	1	1.52	<30
H	H.P.+6	361.20	1	1.52	<30
I	G+6	361.20	1	1.52	<30

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: • No. & dimensions of RWH tank(s) : • No. and depth of percolations wells: 3 Nos. & depth up to underground aquifer • Details on Pre-treatment facilities :
22.	Green area	• Tree covered area (m^2) : 1,231.04

	details	• Area covered by shrubs and bushes (m^2): • Lawn covered area (m^2): 1036.84 • Total Green Area (m^2): 2,267.88 • Green Area % of plot area: 19 % • No. of trees and species to be planted: 173 trees of Gulmohar, Asopalav, Neem, Garmalo, Sevan etc.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Rs. 25 lacs for the proposed EMP including waste management, green belt development, rain water harvesting through ground water recharge etc.
24.	Proposed dust control measures during the construction phase	Dust suppression by water sprinkling, peripheral barricading of atleast 3 m height, compaction of soil during construction phase, covering the material during transportation, PUC compulsion for all the vehicles etc.
25.	Eco friendly building material usage details.	Use of 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, PVC electrical boards, maximum use of Portland Pozzolona Cement (PPC),
26.	Details on amenities to be provided to construction workers.	Sanitation facilities, drinking water, municipal solid waste collection facility, first aid facilities.
27.	Documents related to land possession.	Opinion from Mamlatdar office shows that N.A land for residential & commercial use is in the name of applicant & others.

During the meeting, the project proponent was suggested to increase the parking area provision in view of the increasing traffic congestion and parking problems resulting in deteriorated ambient air qualtiy in developed areas of cities in present scenario, the projects coming in the developing areas should also try to provide adequate parking spaces in order to avoid the recurrence of the same situation in the developing areas. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Project plan showing provision of two staircases in the buildings having floor area more than 500 m^2.
2. Authentic supporting documents revealing that the water supply & drainage connection of Dehgam Nagarpalika will be available to the project.
3. Revised details on increased parking area provision for the project along with the parking plans & backup calculation.

4.	Building construction project by Ranchhodbhai Khodidas	S.No.358, F.P.No.188, T.P.S.No.43, Sola, 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 Building Construction Project
3.	Project / Activity No. [8(a) or	8 (a)

<table>
<tr><td></td><td>8(b)]</td><td></td></tr>
<tr><td>4.</td><td>Name of the project</td><td>Residential Building Construction Project</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Mr. Ranchhodbhai Khodidas</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs . 180 Cr.</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): 6,921
• FSI area (m^2): 27,681.49
• Total BUA (m^2): 48,116.96
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area, m^2</td><td>8,305.20</td><td>27,681.49</td></tr><tr><td>Ground Coverage, m^2</td><td>-</td><td>2,956.89</td></tr><tr><td>Common Plot Area, m^2</td><td>692.10</td><td>697.68</td></tr><tr><td>Max. building height, m</td><td>-</td><td>49.76 m</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings: 2
• No. of Blocks: 4
• Scope of buildings/blocks: 1 builidng - 2 level basement + hollow plinth + 14 floors. 1 building – 2 level basement + ground floor (S.P. + H.P.) + 12 floors.
• No. of Residential Units: 200 flats.
• No. of commercial units: ---
• Details of amenities if any: ---</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>1200 person</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 34
• Source of water: Local water tankers.
• Waste water generation quantity (KL/day): 3
• Mode of disposal: Septic tank to soak pit
• Details of reuse of water, if any: No</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 165
• Source of water: Water supply from Ahmedabad Municipal Corporation (AMC).
• Waste water generation quantity (KL/day): 130
• Mode of disposal: Into drainage line of Ahmedabad Municipal Corporation (AMC).</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 Management</td><td>Construction Phase:<table><tr><td>Description</td><td>Generation (kg/day)</td><td>Quantity to be reused</td><td>Mode of Disposal / Reuse</td></tr></table></td></tr>
</table>

			(kg/day)	
		Top Soil	6.5	100 % reuse	For garden development
		Other excavated earth	205	50 % reuse for back filling & plinth filling.	Remaining quantity will be send to the nearest collection point of AMC
		Construction debris	72.5	30% reuse for pavement & internal road sub base.	Remaining quantity will be send to the nearest collection point of AMC
		Steel scrap	3.0	--	Sell to Actual Users
		Discarded packing materials	1.0	--	Sell to Actual Users
		Total Solid Waste shall (50 workers x 500 gm/person/) 25 kg/day			

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc. Wet waste -Waste vegetable and food.	1000	Organic waste and In organic waste will be collected in different buckets.	The recyclable waste will be sold to recyclers. The non recyclable solid waste will be transferred to the nearest collection point of AMC.

- 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: 25, Volume of Bins: 20 Lit each
- Landfill site where waste will be ultimately disposed by local authority:

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 5,536.80 m^2. • Total parking area requirement for residential units as per GDCR: 5,536.80 m^2 • Total number of CPS requirement for the project as per NBC: 200 • Total number of CPS requirement for residential units as per NBC :200 • Total Parking area provided (m^2) & No. of CPS: 13,907.53 m^2 & 446

<table>
<tr><td></td><td></td><td>CPS
• Parking area provided in basement (m^2) & No. of CPS: 11,150.64 m^2 & 348 CPS.
• Parking area provided in hollow plinth (m^2) & No. of CPS: 2,756.89 m^2 & 98 CPS.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 18 m wide TPS Road
• Number of Entry & Exit provided on approach road/s: 1 gate will be provided.
• Width of Entry & Exit provided on approach road/s: 8 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: 8 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>The transformers and motors will be provided having minimum efficiency of 85%. Use of CFL lights in the common area. Use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling. Rain water harvesting through ground water recharge.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 1000 KW
Connected load: -
• Source: Torrent Power Limited
• Energy saving measures: The transformers and motors will be provided having minimum efficiency of 85%. Use of CFL lights in the common area. Use of light colors to reduce the light absorption and minimize the cooling requirement will be used for the walls and ceiling.
• DG Sets:
No. and capacity of the DG sets: 1 × 100 KVA</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fire extinguishers at each floor, underground water tank of 100 KL capacity & overhead tank of 20 KL capacity 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>Max. Travel distance (m)</th></tr>
<tr><td>A</td><td>2B+H.P.+14</td><td>788.74</td><td>2</td><td>2.05</td><td>20</td></tr>
<tr><td>B+C+D</td><td>2B+G+12</td><td>1373.16</td><td>3</td><td>2.05</td><td>20</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 30 m below ground level
• No. & dimensions of RWH tank(s) : 4 no (10.0m x 4.0m x 2.5m)
• No. and depth of percolations wells : 2 nos
• Details on Pre-treatment facilities : No</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2) : 360
• Area covered by shrubs and bushes (m^2): 100
• Lawn covered area (m^2): 200
• Total Green Area (m^2):660
• Green Area % of plot area: 6.0 %
• No. of trees and species to be planted: 104</td></tr>
<tr><td>23.</td><td>Budgetary</td><td>Total Rs. 13 lacs for MSW management, sewage disposal, greenbelt</td></tr>
</table>

	allocation for Environmental Management Plan (Rs. in lacs)	development, rain water harvesting & ground water recharge etc.
24.	Proposed dust control measures during the construction phase	Water spraying, PUC compulsion for vehicles, covered shed for cement loading activity, covering all the loose material with tarpaulin during stacking & transportation etc.
25.	Eco friendly building material usage details.	Use of Ready Mix Concrete (RMC)
26.	Details of basic amenities to be provided to construction workers.	Drinking water, sanitary facility, free of cost doctor service, all the required personal protective equipments etc.
27.	Documents related to land possession	Village form no. 7 & 12 submitted by them shows that the land of the project site is in the name of applicant & his family members. Zoning certificate obtained from AMC shows that the project site falls in the Residential zone – II and Transit Oriented Zone.

During the meeting, the project proponent was suggested to make use of solar energy by providing solar street lights, solar water heaters etc. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Copy of permission obtained from concerned competent authority or authentic supporting documents showing availability of the proposed FSI to the project.
2. Status of availability of the water supply & drainage connection to the project with authentic supporting documents.
3. Copy of permission obtained for non agricultural use of the project site or its status along with the copies of correspondences made in this regard with concerned competent authority.
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.

5.	Kasha Rivera	T.P.S.No.14(Pal), Block No.343, O.P.No.70, F.P.No.134, Paikee Sub Plot No. B, At-Pal, Surat.	Appraisal case

The project was taken up earlier in the meeting of SEAC held on 09/09/2015. During the meeting held on 09/09/2015, after detailed discussion, it was decided to further appraise the project only after submission of the following:

1. Details on the permissible & proposed ground coverage for the proposed project.
2. Details on refuge area / skip floor to be provided in the proposed high rise buildings as per requirement of NBC and GDCR in this regard.
3. 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 copy of agreement made between the land owners & developers (if any).

4. Details of provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar water heater, solar street lighting, LED lighting. Details along with back up calculation showing how the additional energy consumption in such type of high rise buildings will be compensated with the proposed energy conservation measures.
5. Details of seismic zone of the project and design aspects required to be adhered to as per national standards for buildings to make it earthquake proof.
6. A certificate from structural engineer showing the adherence of the relevant norms/ codes for the proposed 24 storied buildings considering the capacity of terrace water tanks, seismic zone, close vicinity of river, wind velocity, maximum intensity of the earthquake recorded in the past etc.
7. Details on provision of ventilation, lighting arrangements, CO sensors & their functioning etc. in basement.
8. Details on the nearest fire station, availability of fire tender/s capable of reaching up to 24th floor, time required by a fire tender to reach the proposed site etc.

Project proponent submitted the above mentioned details vide their letter dated 27/01/2016 and vide online proposal no. SIA/GJ/NCP/37054/2015 dated 30/12/2015.

Project proponent along with their expert / consultant attended the meeting of SEAC held on 10/02/2016. During the meeting held on 10/02/2016, the project was appraised based on the details submitted as well as facts presented before the committee.

During the meeting held on 10/02/2016, it was presented that they have applied to Urban Development & Urban Housing Department, Gandhinagar for additional FSI and copy of the same has been submitted. Provision of refuge cum assembly area has been made at 7th, 14th and 21st floors of all the buildings for gathering in case of emergency. Copy of village form no. 7 submitted by them shows N.A. land for commercial use is in the name of land owners. The land owners have given power of attorney to the applicant. It is proposed to use LED lighting fixtures in the common areas, solar energy in external lighting, reflective / white tiles on terrace floor, maximum utilization of natural light, solar water heaters, solar power panels of 6.0 KWH capacity etc. They have submitted a copy of structural stability certificate stating that the buildings have been designed for 24 stories considering all the relevant IS codes, capacity of terrace water tanks, wind velocity, intensity of earth quake & seismic zone III. Provision of natural & mechanical ventilation system (ventilator at 8 locations with oxygen level sensors), exhaust fans & LED lighting, automatic CO sensors, gas detection system with audible alarm system etc. will be made in basement. The nearest fire station is Adajan Fire station which is 1.10 km away from the project site and a fire tender will take approximately 5 minutes to reach the project site.

During the meeting, it was observed that the project land area also includes some portion of the land of the adjoining commercial building, for which Environmental Clearance has already been accorded. In order to use the land portion of the adjoining commercial project, they have amalgamated the land portion with their project site. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Copy of permission obtained from Urban Development & Urban Housing Department, Gandhinagar for the proposed additional FSI of the project.

2. Details of adjoining commercial building construction project, its environmental clearance and Impact of amalgamation of the adjoining project land with the proposed project site on parking, basic amenities, structure stability of the existing adjoining commercial building etc.
3. Document showing the amalgamation of adjoining land portion with the proposed project site.

Project proponent submitted the above mentioned details vide their letter dated 29/04/2016.

The project proponent was called during the meeting. The project proponent along with their expert / consultant attended the meeting.

It was presented that they have obtained permission from Urban Development & Urban Housing Department for FSI of 3.98, ground coverage of 60% and building height of 86.89 m (podium + tower) for the proposed project and a copy of the same has also been submitted. M/s Marvella Developers submitted a letter to this office on 16/06/2016 stating that due to selling of some portion of their land, plot area of the project became 5,215.0 m^2 and the built up area of the project became 15,895.34 m^2 in place of plot are of 8,574.52 m^2 & built up area of 30,616.77 m^2 as per the Environmental Clearance granted vide order no. SEIAA/GUJ/EC/ 8(a)/325/2012 dated 08/11/2012. As the built up area of the project becomes 15,895.34 m^2, which does not attract the provisions of the EIA Notification – 2006, they now surrender the Environmental Clearance granted vide order SEIAA/GUJ/EC/8(a)/325/2012 dated 08/11/2012. They have submitted a copy of village form no. 6 showing that the land admeasuring 11,883.0 m^2 (3,359.52 m^2 + 8,523.48 m^2) has been purchased by the M/s 134 Infra, a partnership firm, through its authorized partners including the applicant.

During the meeting, the committee noticed that a complaint against the proposed project has been received from the adjoining residential colony wherein It was mentioned that existing structure of the Marvella Mall, on the land portion purchased by the project proponent, has been incompletely demolished and if the proposed 24 storied structure will be erected on the same incompletely demolished structure, the existing foundation will not be adequately sound to bear the load of the proposed high rise building. In the case, the safety of the people residing in the proposed project & in the residential schemes in the vicinity is questionable. It was mentioned that an accident has occurred in the past during construction phase of Marvella mall due to collapsing of the structure and workers were seriously injured. Further the project site is a low lying & flood prone area and whether this aspect has been considered while designing the structural stability of the proposed high rise buildings or not? Whether adequate required margin space have been proposed to provide on all the sides of the proposed project considering the safety of the adjoining building or not?

It was presented that open peripheral margin of 7 m will be provided all along the boundary wall of the proposed project. Further it was presented that they have already submitted a copy of structural stability certificate stating that the buildings have been designed for 24 stories considering all the relevant IS codes, capacity of terrace water tanks, wind velocity, intensity of earth quake & seismic zone III. River Tapi is at a distance of about 305 m from the boundary of the project site.

During the meeting, after detailed discussion regarding the various aspects of the project and the complaint received, it was decided to consider the project only after submission of the following:

1. Details on HFL of the area and measures proposed to avoid/minimize the adverse impacts due to flood in accordance to the requirement of local bye-laws or the other concerned competent authority in this regard.
2. To the scale drawing of the project site showing provision of adequate open margin space on all the sides of the project site based on the requirement of GDCR & NBC norms in this regard.
3. Notarized undertaking stating that the existing structure of Marvella mall will be completely demolished

and the proposed high rise buildings of 24 floors will be erected on the new foundation to be designed considering the structural strength of 24 storied structures.

Following projects were also discussed during the meeting and based on the merits of the projects as well as details submitted by the project proponents, it was decided to recommend the projects to SEIAA Gujarat for grant of Environmental Clearance.

1. **"Polaris Textile Market"** at B.No.225, F.P.No.20, O.P.No.20, T.P.S. No. 35 (Kumbharia-Saroli-Sania Hemad - Devadh), Moje: Kumbhariya, Ta: Choryasi, Dist: Surat proposed by Mr. Dilipbhai Bavchandbhai Bhagat.

This office has received an application for Environment Clearance of the above project vide proposals no. SIA/GJ/NCP/901/2015 on 05/10/2015 and SIA/GJ/NCP/16687/ 2015 dated 07/07/2016.

This is a proposed building construction project having plot area of 7,406.0 m^2, FSI area of 8,886.39 m^2 and the proposed built up area of the project is 22,523.77 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the commercial building construction project with plot area of 7,406.0 m^2, FSI area of 29,622.35 m^2 and the built up area of 45,634.68 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 28/10/2015.

The project proponent along with their expert / consultants attended the SEAC meeting held on 28/10/2015 and made presentation before the committee. During the meeting held on 28/10/2015, the project was appraised based on the details furnished in the Form – 1 & Form – 1A as well as facts presented before the committee.

Based on the appraisal carried out during the meeting of SEAC held on 28/10/2015 and additional details submitted by project proponent vide their letter dated 27/01/2016, the project was recommended by the SEAC vide letter dated EIA-10-2015-7199-E-423 dated 24/02/2016. Based on the recommendation of the SEAC, the project was taken up in the meeting of SEIAA dated 26/02/2016. As per the decision taken during the meeting of SEIAA dated 26/02/2016, the project was referred back to SEAC vide letter No. SEIAA/GUJ/EC/8(a)/183/2016 dated 29/02/2016 for the following reason:

1. "To verify the details of parking area requirement in view of NBC guidelines."

With reference to the letter from SEIAA dated 29/02/2016, the project was taken up in the meeting of SEAC held on 27/04/2016.

The project proponent along with their expert consultant attended the meeting of SEAC held on 27/04/2016 and it was presented that the proposed project is completely planned for textile go-downs and hence they have proposed to provide parking as 1 CPS per 250 m^2 of FSI area of the proposed project as per NBC norms. After discussing the matter, it was decided to recommend the project again to the SEIAA Gujarat for grant of Environmental Clearance only after submission of the following:

1. Notarized undertaking stating that the commercial units of the proposed project are textile go-downs & will be used to store grey & finished fabrics only.

Project proponent vide their letter dated 29/04/2016 submitted above mentioned notarized undertaking

stating that the commercial units of the proposed project will be used to store textile goods & no any mercantile activity will be carried out in the proposed project.

Meanwhile, during the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent submitted revised Form-I & Form IA to this office on 22/06/2016 for the proposed project with the FSI of 1.19 i.e FSI area of 8,886.39 m^2 & built up area of 22,523.77 m^2 on the same land area of 7,406.0 m^2 instead of originally proposed FSI of 3.99. It was mentioned that as the permission from the Urban Development & Urban Housing Department is awaited for FSI of 3.99, till the time they want to develop the project with the FSI i.e 1.19 (8,886.39 m^2) available to the project as per the provisions of the prevailing GDCR and requested to consider the revised application for grant of Environmental Clearance. The proposed commercial building will be of ground floor + 2 floors instead of ground floor + 8 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Online revised Form-1 & Form – 1A has been submitted on 07/07/2016 vide proposal no. SIA/GJ/NCP/16687/2015.

The said submission of the project proponent was considered by the committee during the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 28/10/2015 with FSI of 3.99 and now as the project proponent wants to scale down the project with FSI of 1.19 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [Proposal No. SIA/GJ/NCP/901/2015 & SIA/GJ/NCP/16687/2015]
2.	Type of Project	Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	The Polaris Textile Market
5.	Name of Developer	Mr. Dilipbhai Bavchandbhai Bhagat
6.	Estimated Project Cost (Rs. In Crores)	Rs. 42.0 Crore
7.	Whether	No

<table>
<tr><td></td><td>construction work has been initiated at site? If yes, details thereof</td><td></td></tr>
<tr><td>8.</td><td>Project Details</td><td>
• Land / Plot Area (m^2): 7,406.0
• FSI area (m^2): 8,886.39
• Total BUA (m^2) : 22,523.77
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area (m^2)</td><td>13,330.80</td><td>8,886.39</td></tr>
<tr><td>Ground Coverage (m^2)</td><td>3,332.7</td><td>3,301.86</td></tr>
<tr><td>Common Plot Area (m^2)</td><td>740.60</td><td>747.32</td></tr>
<tr><td>Max. building height (m)</td><td>--</td><td>14.64</td></tr>
</table>
</td></tr>
<tr><td>9.</td><td>Building Details</td><td>
• No. of Buildings: 1 No.
• No. of Blocks: 1 No.
• Scope of buildings/blocks: 2 level basement + ground floor + 2 floors.
• No. & size of Residential Units: --
• No. & type of Commercial Units: 69 Textile Houses
• Details of amenities if any: --
</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Expected residents: --
Expected shop users: 210
Expected visitors:200</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>
• Water requirement (KL/day): 14.0
• Source of water: Borewell water
• Waste water generation quantity (KL/day): 1.60
• Mode of disposal: Into septic tank & soak pit
• Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment.
</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>
• Fresh water requirement (KL/day): 15.0
• Source of water: Water supply from SUDA.
• Waste water generation quantity (KL/day): 9.50
• Mode of disposal: U/G drainage line of SUDA.
</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>The projects site falls in the T.P.Scheme of SUDA and water supply as well as drainage connection of SUDA will be available to the project during the operation phase.</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>424.50</td><td>424.50</td><td>Reuse for developing garden area</td></tr>
<tr><td>Other excavated earth</td><td>46,130.42</td><td>662.42 will be used for raising the plinth level.</td><td>Remaining will be disposed to other project site based on need.</td></tr>
<tr><td>Construction</td><td>480.00</td><td>218.00</td><td>Reused as a filler up</td></tr>
</table>
</td></tr>
</table>

			debris		to plinth level and remaining will be reused for outer road development
			Steel scrap	18.25	-- Sold to local scrap vendors
			Discarded packing materials	11.40	-- Sold to local vendors

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	24.6	Blue colour bucket	Through S.M.C door to door waste collection system
Wet waste	16.4	Green colour bucket	Through S.M.C door to door waste collection system

- Details of segregation if to be done: Separate bins will be provided to collect dry and wet waste.
- Capacity and no. of community bins to be placed within premises: 0.5 m3 in each building
- Landfill site where waste will be ultimately disposed by local authority: Khajod landfill site of S.M.C.

15.	Parking Details	• Total number of CPS requirement for the project as per NBC : 36 • Number of CPS requirement for commercial units as per NBC: 36 • Total Parking area provided (m^2) & No. of CPS: 12,523.0 m^2 & 396 CPS • Parking area provided in basement (m^2) & No. of CPS: 11,881.0 m^2 & 371 CPS • Parking area provided in hollow plinth (m^2) & No. of CPS: 396.0 m^2 & 14 CPS • Parking area provided as open surface (m^2) & No. of CPS: 246.0 m^2 & 11 CPS.
16.	Traffic Management	• Width of adjacent public roads: 30.0 m wide road in W direction • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • 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): 5.0 m • Width of all internal roads: 7.50 m.
17.	Details of Green Building measures proposed.	Use of fly ash based material, provision of rain water harvesting & ground water recharge scheme, provision of flush tank instead of direct flushing in toilets, provision of foam type aerated cock for water usage.
18.	Energy	• Power supply

<table>
<tr><td></td><td>Requirement, Source and Conservation</td><td>Maximum demand: 1500 KVA
Connected load:
• Source: DGVCL
• Energy saving measures: Use of LED lights in common area, solar lights for landscape lighting, maximum use of natural light, reflective /white tiles on terrace, use of aerated blocks etc.
• DG Sets
No. and capacity of the DG sets: 125 KVA x 01
Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & Quantity – 55 L/hr</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• During the operation phase: Fire extinguishers (total 45 nos. of fire extinguishers i.e 15 nos. of fire extinguishers -5 nos. of chemical foam type, 3 nos of CO2 type & 7 nos. of DCP type per floor.), hose reel, wet riser, yard hydrant, automatic sprinkler system in basement & all the passages, manually operated electric fire alarm system, automatic fire detection & alarm system, underground static water storage tank of 165 KL capacity, terrace water tank of 15 KL capacity etc., provision of one electric & one diesel pump of capacity 2280 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm2 at terrace level. It is proposed to conduct mock drill once in a month, refill & check fire extinguishers & maintain records thereof, regular check up of pumps, fire line, fire detectors etc.
• Details of the nearest fire station: Dumbhal fire station
Distance from the project site: 1.97 km
Time required to reach the project site: About 10 minutes.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase
<table>
<tr><th>No. of floor</th><th>Floor Area (m^2)</th><th>No. of staircase</th><th>Width of Staircase (m)</th><th>No. of Fire lift</th><th>No. of passenger Lift</th><th>No. of Goods Lift</th><th>Maximum Travel Distance up to the Staircase < 30 m</th></tr>
<tr><td>2B+ G+2</td><td>3,384. 57</td><td>03</td><td>2.01</td><td>03</td><td>03</td><td>07</td><td>29.41</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 27.0 m
• No. & dimensions of RWH tank(s) : 04 no. of RWH tanks; size: 4m x 3m x 3m
size of Bore: 350 mm dia.
size of pipe: 150 mm dia.
• No. and depth of percolations wells: 04 nos. of percolating wells, depth will be kept 5 m above ground water table.
• Details on Pre-treatment facilities: A de-silting chamber will be provided to de-silt and remove floating material through bar screen.</td></tr>
</table>

	22.	Green area details	• Tree covered area (m^2) : 331.0 • Area covered by shrubs and bushes (m^2): -- • Lawn covered area (m^2): 518.0 • Total Green Area (m^2): 849.0 • Green Area % of plot area: 11.50 % • No. of trees and species to be planted:56 trees of Asopalav, Neem tree, Coconut Palm tree, Gulmohar etc.
	23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Capital cost of Rs. 9.50 lacs and recurring cost of Rs. 6.0 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management etc.
	24.	Proposed dust control measures.	Water sprinkling, covered shed for cement unloading activity, tarpaulin cover on excavated earth & construction material etc.
	25.	Use of Eco – friendly building materials.	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.
	26.	Details on amenities to be provided to construction workers	Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.
	27.	Documents related to land possession.	Village form no. 7 & 12 as on 18/06/15 shows that the N.A land for residential use is in the name of applicant. Applicant has applied for "Hetu Fer" and copy has been submitted.

2. **"Shree Kuberji Textile Deck"** at B.No.265,266,267, F.P.No.200, 213,214/2, T.P.S.No.35 (Kumbhariya Saroli), Dist:Surat proposed by M/s Shree Kuberji Textile Deck.

This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/NCP/2305/2015 on 08/10/2015.

This is a proposed building construction project having plot area of 14,490.0 m^2, FSI area of 17,514.03 m^2 and the proposed built up area of the project is 40,928.10 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the commercial building construction project with plot area of 14,490.0 m^2, FSI area of 57,956.79 m^2 (3.99) and built up area of 86,691.84 m^2. Based on their original application , the project proponent was called for presentation and discussion in the meeting of SEAC held on 29/12/2015.

The project proponent along with their expert / consultants attended the SEAC meeting held on 29/12/2015 and made presentation before the committee. During the meeting, the project was appraised based on the information furnished in Form-1 & Form1A as well as details presented before the committee.

During the meeting held on 29/12/2015, the project proponent was suggested to make use of solar energy and after detailed discussion, it was decided to consider the project only after submission of the following:

1. Details of provisions to make the project energy efficient by use of solar energy in the form of solar water

heater, solar street lighting etc.

2. Details of fire fighting system including location of fire water tanks & capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms & automatic fire extinguishers, location of fire lift and fire retardant staircases, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site etc. Calculation and provision of minimum fire water requirement based on fire study as well as the availability of external fire fighting facility.
3. Details and drawing showing the maximum travel distance of the nearest staircase from the farthest corner of the floor as well as between the two staircases.
4. Detailed Environment Management Plan with respect to various environmental attributes- Water & waste water management including STP, Air, Noise, Solid wastes including Hazardous Wastes, land, tree plantation etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.
5. 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 copy of agreement made between the land owners & developers (if any).
6. Details and specification of the fire proof electrical fittings (switches, wires, MCBs etc.) to be installed, maximum power demand of the project considering the existing as well as future scenario, connected load etc. for the proposed commercial project and how it will be ensured that the proposed electrical fittings and connected load will be adequate enough for the project in order to avoid any chances of fire in future.
7. Complete details on mechanical parking to be provided and parking plan showing in different colour codes the parking area provision in basement, hollow plinth, as open surface parking and mechanical parking.
8. Type of activities to be carried out in the commercial units of the proposed project. Undertaking stating that no any kind of manufacturing activity shall be allowed in the commercial units of the proposed project and any commercial unit shall not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.

Project proponent vide their letter dated 18/02/2016 submitted the above mentioned details & documents. It is proposed to install solar panels and the energy thus generated will be used for emergency lighting. Plan showing fire fighting installations like fire extinguishers (CO_2 & DCP type), fire hydrants, yard hydrant, sprinkler system at each floor, hose reel etc. for the proposed project has been submitted. It is proposed to provide 4 nos. of staircases of 2.01 m width, 12 nos. of goods lifts & b11 passenger lifts on each floor. Further it was mentioned that entire building will be sprinkler proof. Details of mechanical parking, electrical fittings to be provided and EMP with budgetary provisions have also been submitted.

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the

additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent submitted revised Form-I & Form IA to this office on 22/06/2016 for the proposed project with the base FSI of 1.8 i.e FSI area of 17,514.03 m^2 & built up area of 40,928.10 m^2 on the same land area of 14,490.0 m^2 instead of originally proposed FSI of 3.99. The proposed commercial building will be of ground floor + 2 floors instead of ground floor + 8 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc.

The said submissions dated 18/02/2016 & 22/06/2016 of the project proponent was considered by the committee during the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 29/12/2015 for FSI of 3.99 and now as the project proponent wants to scale down the project with base FSI of 1.8 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project details tabulated below:

<table>
<tr><td>S.No.</td><td>Particulars</td><td>Details</td></tr>
<tr><td>1.</td><td>Proposal is for</td><td>New Project (Proposal no.SIA/GJ/NCP/2305/2015)</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Commercial</td></tr>
<tr><td>3.</td><td>Project / Activity No. [8(a) or 8(b)]</td><td>8(a)</td></tr>
<tr><td>4.</td><td>Name of the project</td><td>“Shree Kuberji Textile - Deck”</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>“Shree Kuberji Textile Deck”</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>90.0 Crores</td></tr>
<tr><td>7.</td><td>Whether construction work has been initiated at site? If yes, details thereof</td><td>No.</td></tr>
<tr><td>8.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 14,490.0
• FSI area (m^2): 17,514.03
• Total BUA (m^2): 40,928.10

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>26,082.0</td><td>17,514.02</td></tr><tr><td>Ground Coverage (m^2)</td><td>6,520.5</td><td>6,450.75</td></tr><tr><td>Common Plot Area (m^2)</td><td>1,449.0</td><td>1,451.68</td></tr><tr><td>Max. building height (m)</td><td>---</td><td>14.64</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No./type of Buildings: 01</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• No. of Blocks/units:01.
• Scope of buildings/blocks: 2 level basement + ground floor + 2 floors.
• No. & size of Residential Units: NA.
• No. & type of Commercial Units: 269 Shops .
• 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>Shops & Offices Staff</td><td>351</td></tr><tr><td>Visitors</td><td>3838</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: through local water tanker suppliers.
• Waste water generation quantity (KL/day): 2.4
• Mode of disposal: Into septic tank and soak pit.
• 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>• Total water requirement (KL/day): 80.0
• Fresh water requirement (KL/day): 26.0
• Source of water: Water supply from Surat Urban Development Authority (SUDA).
• Waste water generation quantity (KL/day): 63.0
• Mode of disposal: Sewage to be generated during operational phase will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and remaining quantity of treated sewage will be disposed off through u/g drainage system of SUDA.
• In case of STP provision, capacity of STP: 100 KL/day
• STP Technology: Conventional with biological treatment & disinfection system.
• Purposes for treated sewage utilization: Gardening & flushing.
• Quantity of treated sewage to be reused:1.Gardening (KL/day): 7.0
2. Flushing (KL/day) : 47.0
• Provision of dual plumbing system (Yes/No): Yes.
• Quantity and type (treated/untreated) of sewage to be discharged: Sewage to be generated during operational phase will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and remaining quantity of treated sewage will be disposed off through u/g drainage system of SUDA.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water requirement will be met through water supply from SUDA and drainage system of SUDA will be available to the project during the operation phase of the project.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:<table><tr><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>1500</td><td>1500</td><td>Landscaping development.</td></tr></table></td></tr>
</table>

		Other excavated earth	5000	5000	Leveling of the site, internal roads etc.
		Construction debris	400	-	Will be used for internal road & pavement development.
		Steel scrap	70	-	Will be Sold to scrap dealer
		Discarded packing materials	30	-	Will be Sold to scrap dealer

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	699.0	Will be collected in bins to be provided within premises.	Solid Waste collection will be disposed off into nearby sanitary landfill site of SUDA
Wet waste	350.0	Will be Collected in bins to be provided within premises.	-do-

- Details of segregation if to be done: No.
- Capacity and no. of community bins to be placed within premises: 40 Nos. of bins of 50 L Each.
- Landfill site where waste will be ultimately disposed by local authority: At nearby MSW collection point of SUDA.

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 8757.0 m^2. • Parking area requirement for Commercial units as per GDCR:8757.0 m^2. • Total number of CPS requirement for the project as per NBC: 350 Nos. • Number of CPS requirement for commercial units as per NBC: 350 Nos. • Total Parking area provided (m^2) & No. of CPS: 19,605.0 & 612 CPS. • Parking area provided in basement (m^2) & No. of CPS: 19,605.0 m^2 & 612 CPS.
16.	Traffic Management	• Width of adjacent public roads: 30 m & 18 m. • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • Width of Entry & Exit provided on approach road/s: 6.10 m • Minimum width of open path all around the buildings for easy access

<table>
<tr><td></td><td></td><td>of fire tender (excluding the width for the plantation): 4.0 m
• Width of all internal roads:6 m & 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, local exhaust ventilation to areas where indoor air pollutant build-up could be a problem, dedicated exhaust systems in indentified areas, on-site rainwater recharging systems for storm water control and non-potable water uses, green belt development (11.69% of total plot area)</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 2000 KVA
Connected load: 2500 KVA
• Source: DGVCL (Dakshin Gujarat Vij Co. Limited)
• Energy saving measures: T5/T8 and CFL/LED lighting fixtures for internal common area lighting, maximum use of natural lighting through architectural design of the building & adequate window size etc.
• % of saving with calculations: 35% saving on energy by use of T5/T8 and CFL/LED lighting fixtures
• Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: Yes
<table>
<tr><th>Section No.</th><th>Requirement</th><th>Compliance</th></tr>
<tr><td>7.2</td><td>Lighting controls occupancy/ time switch</td><td>Parking area lighting will be controlled through switch with alternate switching.</td></tr>
<tr><td>7.2.1.4</td><td>Exterior lighting to be photo sensor or time switch</td><td>External lighting will be controlled through timer.</td></tr>
<tr><td>7.3</td><td>Interior lighting power to be within specified limits</td><td>All light in common open area will be ceiling mounted. It illuminates the required area only.</td></tr>
<tr><td>7.4</td><td>Exterior lighting power to be within specified limits</td><td>All lights will be with bracket or arm, so no extra light will be cross boundary limit.</td></tr>
<tr><td>8.2.1.1</td><td>Maximum allowable power lose from transformer</td><td>Shall be used energy efficient transformers as per ECBC Norms.</td></tr>
<tr><td>8.2.2</td><td>Energy efficient motors</td><td>For the common area, all motor will be energy efficient as per ECBC.</td></tr>
<tr><td>8.2.3</td><td>Power factor be maintained between 0.95 and unity</td><td>We will use capacitor bank for common areas load to maintain power factor.</td></tr>
<tr><td>8.2.5</td><td>Power distribution system losses to be maintained less than 1%.</td><td>We will consider low watt loss type MCB in all distribution system.</td></tr>
</table>
• DG Sets:
No. and capacity of the DG sets: 2 Nos. × 125 KVA.
Fuel & its quantity: Diesel, 50lit/hr in case of emergency only.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>• Dumbhal Fire Station, Surat is approximately 4.0 Km away from the project site in W direction and it takes 10 minutes for a fire tender to</td></tr>
</table>

<table>
<tr><td></td><td></td><td>reach the site.
• Details of Fire Fighting System: Fire extinguishers (CO_2 & DCP type), yard hydrant, hose reel, sprinkler system at each floor & basement, fire alarm call point etc.
• Details of Safety measures for the construction workers: Full body harness will be provided to the workers. 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 their usage will be ensured during working hours.</td></tr>
<tr><td>20.</td><td>Details on staircase</td><td>
<table>
<tr><td>Building</td><td>No. of floors</td><td>Floor area (m^2)</td><td>No. of staircases</td><td>Width of staircase.</td></tr>
<tr><td>One Building</td><td>1st and 2nd Basement Parking G+2 floor commercial structure</td><td>6004.04</td><td>Total 04 Nos. of staircases, 12 Nos. of goods lifts & 11 Nos. of passenger lifts</td><td>2.01 m</td></tr>
</table>
</td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 5.0 to 7.0 m
• No. & dimensions of RWH tank(s) : Nil
• No. and depth of percolations wells: 4 nos.
• Details on Pre-treatment facilities: Sand Filter will be used to remove suspended pollutants from the rainwater. After filtration, water will be recharged using percolation pit, filled with pebbles or brick and river sand and covered with perforated concrete slabs. Depth of recharge pit will be designed according to Water table of the area.</td></tr>
<tr><td>22.</td><td>Green area details</td><td>• Tree covered area (m^2): 515.46
• Area covered by shrubs and bushes (m^2): 0
• Lawn covered area (m^2): 1,451.68
• Total Green Area (m^2):1,967.14
• Green Area % of plot area: 13.57 %
• No. of trees and species to be planted: 162 trees of local species</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan (Rs. in lacs)</td><td>Capital cost of Rs. 62.54 lacs and recurring cost of Rs. 18.30 lacs is proposed for sewage & solid waste management, greenbelt development etc.</td></tr>
<tr><td>24.</td><td>Proposed dust control measures during the construction phase</td><td>Water sprinkling on loose tope soil, storing construction material in covered structures / areas, tarpaulin sheet cover on sand during transportation & storage etc.</td></tr>
<tr><td>25.</td><td>Eco friendly building material usage details.</td><td>Eco-Friendly building construction materials like fly ash bricks/AAC block, lead free paints, aluminum windows and bagasse based particle board in doors etc.</td></tr>
<tr><td>26.</td><td>Basic amenities to be provided to construction workers.</td><td>Wash rooms, rest rooms, drinking water facilities etc.</td></tr>
<tr><td>27.</td><td>Documents related</td><td>Village form no. 7 & 12 and N.A order for block no. 265 & 266</td></tr>
</table>

	to land possession.	submitted by them shows that N.A land for commercial use is in the name of Shree Kuberji Textile Deck, a partnership firm. Village form no. 7 & 12 for block no. 267 submitted by them shows that the land is in the name of Shree Kuberji Textile Deck, a partnership firm and N.A permission for residential use has been obtained for the block number 267.	

3. **"Shree Kuberji Textile World"** at B.No.270, F.P.No.209/1, T.P.S.No.35 (Kumbhariya Saroli), Dist:Surat proposed by Mr. Nareshkumar B Agrawal.

This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/NCP/39817/2016 on 03/02/2016.

This is a proposed building construction project having plot area of 14,670.35 m^2, FSI area of 23,171.65 m^2 and the proposed built up area of the project is 41,679.63 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the commercial building construction project with plot area of 14,670.35 m^2, FSI area of 58,130.99 m^2 (3.96) and built up area of 87,169.50 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 18/02/2016.

The project proponent along with their expert / consultants attended the SEAC meeting held on 18/02/2016 and made presentation before the committee. During the meeting, the project was appraised based on the information furnished in Form-1 & Form1A as well as details presented before the committee.

During the meeting held on 18/02/2016, the project proponent presented that flame proof electrical fittings will be installed and also submitted details of the same. Details of mechanical parking submitted by them was discussed and they have also submitted typical floor plan showing that the travel distance of the staircase from the farthest corner of the floor as well as between the two consecutive staircase is less than 25 m. Terrace floor plan showing installation of solar panels, plans showing fire fighting installations at each floor & in basements has also been submitted. After detailed discussion, it was decided to consider the project only after submission of the following:

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

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion

from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent submitted revised Form – 1 & Form – 1A along with project plans and revised project details to this office on 22/06/2016. They have submitted revised Form – 1 & Form – 1A for the proposed project with the base FSI of 1.8 i.e FSI area of 23,171.65 m^2 & built up area of 41,679.63 m^2 on the same land area of 14,670.35 m^2 instead of originally proposed FSI of 3.99. The proposed commercial building will be of ground floor + 6 floors with their respective mezzanine floors instead of ground floor + 6 floors with their respective mezzanine floors + 7th & 8th floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Zoning certificate obtained from SUDA shows that the project site falls in the commercial zone. Revised Form – 1 & Form – 1A has also been submitted online along with the additional details submitted on 04/07/2016.

The said submission of the project proponent was considered by the committee during the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 18/02/2016 with FSI of 3.99 and now as the project proponent wants to scale down the project with base FSI of 1.8 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features tabulated below:

S.No.	Particulars	Details
1.	Proposal is for	New Project[SIA/GJ/39817/2016]
2.	Type of Project	Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Shree Kuberji Textile World
5.	Name of Developer	Mr. Nareshkumar B Agrawal
6.	Estimated Project Cost (Rs. In Crores)	51.50 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No.

<table>
<tr><td>8.</td><td>Project Details</td><td>
• Land / Plot Area (m^2): 14,670.35
• FSI area (m^2): 23,171.65
• Total BUA (m^2): 41,679.63
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area</td><td>23,231.61 m^2</td><td>23,171.65 m^2</td></tr>
<tr><td>Ground Coverage</td><td>3,871.93 m^2</td><td>3,732.60</td></tr>
<tr><td>Common Plot Area</td><td>1,467.03 m^2</td><td>1,520.11 m^2</td></tr>
<tr><td>Max. building height</td><td>60.0 m</td><td>39.20</td></tr>
</table>
</td></tr>
<tr><td>9.</td><td>Building Details</td><td>
• No./type of Buildings: 01
• No. Blocks: 01
• Scope of buildings/blocks: 2 level basement + ground floor to 6th floors with their respective mezzanine floors.
• No. & size of Residential Units: NA.
• No. & type of Commercial Units: 453 shops
• Details of amenities if any: NA
</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>
<table>
<tr><td>Sr. No.</td><td>Users</td><td>Number of Users</td></tr>
<tr><td>1</td><td>Shops & Offices Staff</td><td>464</td></tr>
<tr><td>2</td><td>Total Visitors</td><td>4438</td></tr>
</table>
</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>
• Water requirement (KL/day): 13.0
• Source of water: Water tankers.
• Waste water generation quantity (KL/day): 2.4
• Mode of disposal: The sewage generated will be sent to temporary septic Tank and soak pits.
• Details of reuse of water, if any: ---
</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>
• Total water requirement(KL/day): 97.0
• Fresh water requirement (KL/day): 32.0
• Source of water: Water supply from Surat Urban Development Authority (SUDA).
• Waste water generation quantity (KL/day): 76.0
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SUDA.
• In case of STP provision, capacity of STP: 100 KL/day
• STP Technology: STP comprising of primary + secondary + tertiary treatment facilities.
• Purposes for treated sewage utilization: gardening & flushing.
• Quantity of treated water to be reused:1.Gardening (KL/day): 7.0
2. Flushing (KL/day) : 58.0
• Provision of dual plumbing system (Yes/No): Yes.
• Quantity and type (treated/untreated) of sewage to be discharged: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>underground drainage line of SUDA.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connection will be available from SUDA during the operation phase of the project.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table><tr><th></th><th>Generation (m^3)</th><th>Quantity to be reused (m^3)</th><th>Mode of Disposal / Reuse</th></tr><tr><td>Top Soil</td><td>1,800</td><td>1,800</td><td>Landscaping development.</td></tr><tr><td>Other excavated earth</td><td>4,000</td><td>4,000</td><td>Levelling of the site, internal roads, etc.</td></tr><tr><td>Construction debris</td><td>400</td><td>-</td><td>Will be used for pavement & plinth filling.</td></tr><tr><td>Steel scrap</td><td>70</td><td>-</td><td>Will be Sold to scrap dealer</td></tr><tr><td>Discarded packing materials</td><td>30</td><td>-</td><td>Will be Sold to recycler.</td></tr></table>
Operation Phase:
<table><tr><th>Type of waste</th><th>Generation Quantity (Kg/day)</th><th>Mode of waste collection</th><th>Mode of Disposal / Reuse</th></tr><tr><td>Dry waste</td><td>812.0</td><td>Will be Collected in Bins</td><td>Solid Waste collected will be disposed off into nearby sanitary landfill site of SUDA</td></tr><tr><td>Wet waste</td><td>414.0</td><td>Will be Collected in Bins</td><td>-do-</td></tr></table>• Details of segregation if to be done: Not proposed.
• Capacity and no. of community bins to be placed within premises: 40 Nos. 50 kg Each.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• Landfill site where waste will be ultimately disposed by local authority: Nearby sanitary landfill / dumping site of SUDA.</td></tr>
<tr><td>15.</td><td>Parking Details</td><td>• Total parking area requirement for the project as per GDCR: 11,585.82 m^2
• Parking area requirement for Commercial units as per GDCR: 11,585.82 m^2
• Total number of CPS requirement for the project as per NBC: 464 Nos.
• Number of CPS requirement for commercial units as per NBC: 464 Nos.
• Total Parking area provided (m^2) & No. of CPS: 15,124.99 m^2 & 503 Nos.
• Parking area provided in basement (m^2) & No. of CPS:1st Basement: 6,173.80 m^2 & 192 Nos., 2nd Basement 6,266.89 m^2 & 195 Nos.]
• Parking area provided as open surface (m^2) & No. of CPS: 2,684.31 m^2 & 116 Nos.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 60 m. & 24 m.
• Number of Entry & Exit provided on approach road/s: 2 gates will be provided.
• Width of Entry & Exit provided on approach road/s: 7 m
• Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 7 m
• Width of all internal roads: 7.5 m</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Wall panel fabrics with recycled content, low-VOC emitting and refurbished or bio-harvested renewable material content for flooring. Provision of local exhaust ventilation to areas where indoor air pollutant build-up could be a problem, on-site rainwater recharging systems for storm water control and non-potable water uses, formaldehyde free Medium Density Fibreboard (MDF), use of polyethylene plastic piping in lieu of PVC piping, built-in entry way mats with drop pans and adequate drains to catch dirt off shoes, green belt development (15.08% of total plot area), provision of onsite STP & reuse of treated sewage, solar panels etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply:
Maximum demand: 2000 KVA
Connected load: 2500 KVA
• Source: DGVCL (Dakshin Gujarat Vij Co. Limited)
• Energy saving measures: T5/T8 and CFL lighting in all internal common areas, equivalent size windows to get the sufficient day light, solar panels etc.
• % 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>
</table>
</td></tr>
</table>

		7.3	Interior lighting power to be within specified limits	All light in common open area will be ceiling mounted. It illuminates the required area only.
		7.4	Exterior lighting power to be within specified limits	All lights will be with bracket or arm, so no extra light will be cross boundary limit.
		8.2.1.1	Maximum allowable power lose from transformer	Shall be used energy efficient transformers as per ECBC Norms.
		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 x 125 KVA. Fuel & its quantity: Diesel, 50 lit/hr in case of emergency only.		
19.	Fire and Life Safety Measures	• Nearest fire station: Dumbhal Fire Station, Surat Distance from the project site: approximate at 4 Km Time required for a fire tender to reach the project site: 10 minutes. • Details of Safety measures for the construction workers: Full body harness will be provided to all the workers working at Height. Safety net will also be provided to prevent the fall hazard. All construction workers will be provided appropriate PPEs like dust mask, ear plug, helmet, safety belt etc. and made to wear them during working hours. • During the operation phase: Fire extinguishers (DCP & CO2 type), hose reel, fire hydrants, fire sprinklers automatic type in basement & all the floors of the building, underground fire water storage tank of 200 KL/day, overhead fire water tank of 30 KL/day, manual alarm call point etc.		
20.	Details on staircase	Type of block	Floor area (m^2)	Number of Stair cases	Width of Stair case in m	Distance of stair case from the farthest corner
		2B + G + 6 floors with their mezzanine floors.	3,387.11	11	2.1	<25 m
21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 5.0 to 7.0 m • No. & dimensions of RWH tank(s) : Nil • No. and depth of percolations wells: 4 nos. & 40 m • Details on Pre-treatment facilities: Sand Filter will be used to remove suspended pollutants from the rainwater. After filtration, water will be recharged using percolation pit, filled with pebbles or brick and river sand and covered with perforated concrete slabs. Depth of recharge pit will be designed according to water table of the area.				

22.	Green area details	• Tree covered area (m^2): 495.0 • Area covered by shrubs and bushes (m^2): 0 • Lawn covered area (m^2): 1,520.11 • Total Green Area (m^2): 2,015.11 • Green Area % of plot area: 13.73 % • No. of trees and species to be planted: 210 Trees of 14 local species
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Budgetary provisions for the sewage management system including STP & reuse of treated sewage, solid waste management, green belt development etc. are Rs. 69.81 lacs as capital cost & 18.30 lacs as recurring cost during the operation phase.
24.	Proposed dust control measures during the construction phase	Water sprinkling on loose top soil, all the construction materials shall be stored in covered structures/areas, cement bags will be separately stored under cover in bales, sand will be stacked under tarpaulin cover etc.
25.	Eco friendly building material usage details.	Eco-Friendly building construction materials like fly ash brick/AAC block, lead free paints, aluminum windows and bagasse based particle board in doors will be used.
26.	Basic amenities to be provided to construction workers.	Wash rooms, rest rooms, drinking water etc.
27.	Documents related to land possession	N.A order shows that the land for residential use is in the name of land owner. The land owner has given power of attorney to the applicant, which is registered with District Treasury Office Surat. Zoning certificate of SUDA shows that the project site fall in the commercial zone.

4. **"Shyam Sangini – 2 C"** at T.P.S.No.35, (Kumbharia-Saroli-Hemad-Devadh), B.No- 34/P+35,O.P.No. 178+179, F.P.No.178+179, Moje: Kumbhariya, Dist: Surat proposed by Mr. Vikas H. Ahir & Mr. Dineshbhai Ranchhodbhai.

This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/NCP/33073/2015 on 16/12/2015.

This is a proposed building construction project having plot area of 15,054.0 m^2, FSI area of 17,936.82 m^2 and the proposed built up area of the project is 42,553.58 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the commercial building construction project with plot area of 15,054.0 m^2, FSI area of 59,789.40 m^2 (FSI of 3.97) and built up area of 88,768.56 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 10/02/2016.

The project proponent along with their expert / consultants attended the SEAC meeting held on 10/02/2016 and made presentation before the committee. During the meeting held on 10/02/2016, after detailed discussion, it was decided to further appraise the project only after submission of certain additional details

regarding the project.

Project proponent submitted the details sought during the meeting of SEAC held on 10/02/2016 vide their letter dated 04/04/2016.

The project proponent along with their expert / consultant remained present during the meeting of SEAC held on 04/05/2016 and during the meeting of SEAC held on 04/05/2016, the project was appraised based on the details submitted as well as facts presented before the committee.

During the meeting held on 04/05/2016, it was presented that the water requirement for the project during the operation phase will be met through water supply from Kumbhariya Gram Panchayat. Sewage to be generated will be treated in the proposed onsite STP and treated sewage will be completely used for flushing & gardening purpose within premises & for irrigation purpose in the farms located in the vicinity. During the monsoon season when the treated sewage utilization for gardening & irrigation purpose is not possible, the treated sewage will be stored in the fire water reservoir of 300 KL capacity. They have applied to Urban Development & Urban Housing Department, Gandhinagar for the proposed FSI and the permission is awaited. It was presented that basement ventilation fans with temperature & humidity sensors and adjusted speed level to ensure 2-3 air changes per hour will be provided in basement. It is proposed to provide underground static fire water storage tank of 300 KL capacity & terrace fire water storage tank of 25 KL capacity. The nearest fire station at Magob is at a distance of about 4 km from the project site.

During the meeting held on 04/05/2016, while discussing about the water supply and availability of drainage connection to the project, the project proponent stated that the project site is covered under the draft Town Planning Scheme of SUDA but the water supply & drainage lines of SUDA are at present not available in the area. In future when water supply & drainage connection from SUDA will be available to the project, the facilities of SUDA will be used for the proposed project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Copy of permission obtained from the concerned competent authority for availability of the proposed FSI & ground coverage.
2. Details on status of availability of water supply & drainage connection of SUDA to the proposed project with supporting documents.

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent submitted revised Form-I & Form IA to this office on 20/06/2016 for the proposed project with the FSI of 1.19 i.e FSI area of 17,936.82 m^2 & built up area of 42,553.58 m^2 on the same land area of 15,054.0 m^2 instead of originally proposed FSI of 3.97. It was mentioned that as the

permission from the Urban Development & Urban Housing Department is awaited for FSI of 3.94, till the time they want to develop the project with the FSI available i.e 1.19 (17,936.82 m^2) to the project as per the provisions of the prevailing GDCR and requested to consider the revised application for grant of Environmental Clearance. The proposed commercial building will be of ground floor + 2 floors instead of ground floor + 9 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Revised Form-1 & Form – 1A has also been submitted online vide proposal no. SIA/GJ/NCP/4127/2015 on 04/07/2016.

The said submission of the project proponent was considered by the committee during the meeting. During the meeting, the committee was of the view that the project was appraised during the meetings of SEAC held on 10/02/2016 & 04/05/2016 with FSI of 3.97 and now as the project proponent wants to scale down the project with FSI of 1.19 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features 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/33073/2015]</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Commercial</td></tr>
<tr><td>3.</td><td>Project / Activity No. [8(a) or 8(b)]</td><td>8(a)</td></tr>
<tr><td>4.</td><td>Name of the project</td><td>Shyam Sangini 2-C Warehouse textile market project</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Mr. Vikas Hasmukhbhai Ahir
Mr. Dineshbhai Ranchodbhai</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 30 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): 15,054.0
• FSI area (m^2): 17,936.82
• Total BUA (m^2):42,553.58
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>27,097.20</td><td>17,936.82</td></tr><tr><td>Ground Coverage (m^2)</td><td>7,527.0</td><td>6,602.14</td></tr><tr><td>Common Plot Area (m^2)</td><td>1,952.21</td><td>1,952.21</td></tr><tr><td>Max. building height (m)</td><td>65</td><td>19.44</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 +2 floors.
• No.& size of Residential Units:---</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• No. & type of Commercial Units: 287 nos. of storage type warehouses.
• Details of amenities if any:</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>3654</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 Kumbhariya Gram Panchayat
• Waste water generation quantity (KL/day): 2.28
• Mode of disposal: Details of reuse of water, if any: Soak Pit</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total water requirement (KL/day): 58.0
• Fresh water requirement (KL/day): 35.0
• Source of water: water supply from Surat Urban Development Authority (SUDA).
• Waste water generation quantity (KL/day): 46.0
• 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 and remaining quantity of treated sewage will be discharged into the drainage line of SUDA.
• In case of STP provision, capacity of STP: - 200 KL/day
• STP Technology: - FMR technology
• Purposes for treated sewage utilization: Flushing & gardening.
• Quantity of treated sewage to be reused:1.Gardening (KL/day): 5.0
2. Flushing (KL/day): 18.0
• Provision of dual plumbing system (Yes/No): -Yes
• Quantity and type (treated/untreated)of sewage to be discharged: 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 SUDA.
• Mode of disposal: as above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Water supply & drainage connection of SUDA will be available to the project during operation phase of the project.</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>5,523.5</td><td>800</td><td>800 m^3 of excavated top soil will be utilized for greenbelt development and 4,723.5 m^3 of top soil will be utilized for back filling.</td></tr>
</table></td></tr>
</table>

		Other excavated earth | 88,817.88 | 347.7 | 347.7m^3 of excavated soil will be utilized for back filling within site. Excess soil of 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	244	Into separate bins to be provided within premises.	Final disposal at Khajod Disposal Site
Wet waste	143		

- Details of segregation if to be done: Separate bins will be provided for dry and wet waste for each unit
- Capacity and no. of community bins to be placed within premises:1 bin having capacity of 700 kg for dry waste and 1 bin of 400 kg for wet waste will be provided to building.
- Landfill site where waste will be ultimately disposed by local authority: Khajod disposal site

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 5,380.8 m^2 • Parking area requirement for Commercial units as per GDCR: 5,380.8 m^2 • Total number of CPS requirement for the project as per NBC :359 • Number of CPS requirement for commercial units as per NBC: 359 • Total Parking area provided (m^2) & No. of CPS: 24,311.1 m^2 and 807 CPS • Parking area provided in basement (m^2) & No. of CPS: 20,414.36 m^2 and 638 CPS • Parking area provided as open surface (m^2) & No. of CPS: 3,896.74 m^2 and 169 CPS.
16.	Traffic Management	• Width of adjacent public roads: 45 m wide TP road. • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • Width of Entry & Exit provided on approach road/s:7.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width forthe plantation):5 m • Width of all internal roads: 7.5 m & 9.0 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, proposal of STP & reuse of treated sewage for gardening & flushing purpose within premises etc.
18.	Energy Requirement, Source and Conservation	• Power supply: Maximum demand:4000 KW Connected load:4100 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 × 132 KVA Fuel & its quantity: diesel (10 Litre/h) Note : - D.G. Sets will be used in case of power failure or fire emergency
19.	Fire and Life Safety Measures	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 at Magob is about 4 km away from the project site.
20.	Details on staircase	

Type & no. of buildings	No. of floors	Floor area (m^2)	No. of staircase	Width of the staircase	Travel distance (m)
1	2B+G+2	5,978.94	9	2.01 m	< 30

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 19 m • No. & dimensions of RWH tank(s) :- • No. and depth of percolations wells :4 • Details on Pre-treatment facilities :only roof top rainwater harvesting is proposed
22.	Green area details	• Tree covered area (m^2) :600 • Area covered by shrubs and bushes (m^2): 250 • Lawn covered area (m^2): 400 • Total Green Area (m^2): 1,250.0 • Green Area % of plot area: 7 % • No. of trees and species to be planted: 350
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	• Green belt development : 60Lacs • Drainage and rain water harvesting: 50 lacs • Sewage treatment plant: 200 Lacs • Solar and energy saving: 30Lacs • Total: 340Lacs

24.	Proposed dust control measures during the construction phase	Loading & transportation in covered trucks, covered shed provided for cement unloading activity, temporary wind screen around project site, sprinkling of water on roads and in vicinity of storage area.
25.	Eco friendly building material usage details.	Fly ash brick, aerated block, paving block, RMC (Ready Mix Concrete), lead free paints etc.
26.	Details of the amenities to be provided to the construction labours.	Sanitation facilities, tap water & drinking water, domestic sewage disposal facility, first aid box, free medicine, doctor service, adequate PPEs etc.
27.	Documents related to land ownership.	Village form no. 7/12 for both the block numbers in the name of applicants. Copy of application made for obtaining N.A permission has been submitted.

5. "**Ambika Solitaire**" at B.No.125, T.P.S.No.27[Utran-Kosad], F.P. No. 27, O.P.No.27, At:Utran, Dist:Surat proposed by M/s Bhavani Developers**.**

This office has received an application for Environment Clearance of the above project vide proposals no. SIA/GJ/NCP/51938/2016 on 21/03/2016 and revised application vide proposal no.SIA/GJ/NCP/16693/2016 on 08/07/2016.

This is a proposed building construction project having plot area of 9,864.0 m^2, FSI area of 19,080.78 m^2 and the proposed built up area of the project is 42,473.50 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the residential building construction project with plot area of 9,864.0 m^2, FSI area of 39,306.89 m^2 (3.98) and built up area of 66,597.43 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 31/03/2016.

The project proponent along with their expert / consultants attended the SEAC meeting held on 31/03/2016 and made presentation before the committee. During the meeting, the project was appraised based on the information furnished in Form-1 & Form1A as well as details presented before the committee.

During the meeting held on 31/03/2016, it was presented that they will install solar panels on terrace floor of the buildings. After detailed discussion it was decided to consider the project only after submission of the following:

1. Copy of permission obtained from Urban Development & Urban Housing Department, Gandhinagar for the proposed FSI.
2. A certificate from the approved fire consultant regarding the fire fighting installations in the proposed high rise buildings.
3. Details on solar panels to be installed including their number & capacity, type, location & available space etc. Details on how much of the total energy requirement of the project can be compensated through the proposed energy conservation measures.
4. Copy of partnership deed of M/s Bhavani Developers.
5. Copy of permission obtained from Airports Authority of India for the proposed building height.

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent vide their letters dated 25/05/2016 & 22/06/2016 submitted the additional details sought during the meeting of SEAC held on 31/03/2016 and revised Form – 1 & Form – 1A along with project plans and revised project details. They have submitted revised Form – 1 & Form – 1A for the proposed project with the base FSI of 1.9 i.e FSI area of 19,080.78 m^2 & built up area of 42,473.50 m^2 on the same land area of 9,864.0 m^2 instead of originally proposed FSI of 3.98. The proposed residential buildings will be of hollow plinth + 9 floors & hollow plinth + 10 floors instead of hollow plinth + 18 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Revised Form – 1 & Form – 1A has also been submitted online vide proposal no. SIA/GJ/NCP/16693/2016 dated 08/07/2016. They have submitted a copy of permission obtained from Airports Authority of India for maximum structure height of 80 m. Copy of partnership deed of M/s Bhavani Developers registered with Sub-registrar Surat, has also been submitted. Copy of index of Sub-registrar's office showing that the land is in the name of M/s Bhavani Developers has been submitted. It is proposed to install solar penal of 1.5 KWH per building. Copy of application made for obtaining NOC from Fire Department of SMC & permission for additional FSI has also been submitted.

The said submission of the project proponent was considered by the committee in the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 31/03/2016 with FSI of 3.98 and now as the project proponent wants to scale down the project with base FSI of 1.9 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/50232/2016 & SIA/GJ/NCP/16693/2016]
2.	Type of Project	Residential
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Ambika Solitaire
5.	Name of Developer	Bhavani Developers

<table>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 80.0 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): 9,864.0
• FSI area (m^2): 19,080.78
• Total BUA (m^2) : 42,473.50
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>22,194.0</td><td>19,080.78</td></tr><tr><td>Ground Coverage (m^2)</td><td>2,781.43</td><td>2,759.31</td></tr><tr><td>Common Plot Area (m^2)</td><td>986.40</td><td>987.0</td></tr><tr><td>Max. building height (m)</td><td>--</td><td>40.77</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings: 07 Nos.
• No. of Blocks: 07
• Scope of buildings/blocks: 5 buildings - Basement + hollow plinth + 1st floor parking + 2nd to 9th floors, 2 buildings - Basement + hollow plinth + 1st floor parking + 2nd to 10th floors.
• No. & size of Residential Units: 116 Flats of 3 & 4 BHK
• No. & type of Commercial Units: --
• Details of amenities if any: --</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Expected residents: 1190
Expected visitors: 400</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 15.35
• Source of water: Bore well water.
• Waste water generation quantity (KL/day): 2.88
• Mode of disposal: Into septic tank & soak pit.
• Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment.</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total Water requirement (KL/day): 87.0
• Fresh water requirement (KL/day): 64.0
• Source of water: Water supply from S.M.C
• Waste water generation quantity (KL/day): 65.0
• Mode of disposal: Sewage to be generated will be segregated into the grey & black sewage. Grey sewage will be treated in the proposed onsite STP for grey sewage. Treated grey sewage will be reused for gardening & flushing purpose within premises and only remaining quantity of treated grey sewage along with untreated black sewage will be discharged into the underground drainage line of SMC.
• In case of STP provision, capacity of STP: Yes (Grey water treatment plant – 100 KL/day)
• STP Technology: Grey Sewage Treatment Plant
• Purposes for treated water utilization: Treated sewage will be utilized in gardening and toilet flushing
• Quantity of treated sewage to be reused:
1. Gardening (KL/day): 4.0</td></tr>
</table>

<table>
<tr><td></td><td></td><td>2. Flushing (KL/day): 19.0
• Provision of dual plumbing system (Yes/No): Yes
• Quantity and type (treated/untreated) of sewage to be discharged: Sewage to be generated will be segregated into the grey & black sewage. Grey sewage will be treated in the proposed onsite STP for grey sewage. Treated grey sewage will be reused for gardening & flushing purpose within premises and only remaining quantity of treated grey sewage along with untreated black sewage will be discharged into the underground drainage line of SMC.
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Applied for connection of water supply and drainage connection in S.M.C. and the facilities will be available to the project at the time of getting B.U permission.</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>493.50</td><td>493.50</td><td>Reuse for developing garden area</td></tr>
<tr><td>Other excavated earth</td><td>33,032.46</td><td>913.50 m^3 will be reused for back filling.</td><td>Disposal to other project site in consultation with SMC</td></tr>
<tr><td>Construction debris</td><td>699</td><td>333 m^3 will be reused as a filler up to plinth level.</td><td>Remaining quantity will be reused for outer road development</td></tr>
<tr><td>Steel scrap</td><td>27</td><td>--</td><td>Sold to local scrap vendors</td></tr>
<tr><td>Discarded packing materials</td><td>17</td><td>--</td><td>Sold to local 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</td><td>210</td><td>Blue colour bucket</td><td>Through door to door waste collection system of SMC</td></tr>
<tr><td>Wet waste</td><td>140</td><td>Green colour bucket</td><td>Through door to door waste collection system of SMC</td></tr>
<tr><td>STP Sludge / GWTP Sludge</td><td>15.00</td><td>On SDB</td><td>Reused in gardening as manure within project premises</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: 2,862.11 m^2 • Parking area requirement for residential units as per GDCR: 2,862.11 m^2 • Total number of CPS requirement for the project as per NBC : 116 • Number of CPS requirement for residential units as per NBC: 116 • Total Parking area provided (m^2) & No. of ECS: 16,979.50 m^2 & 564 ECS • Parking area provided in basement (m^2) & No. of ECS: 7,774.50 m^2 & 242 ECS • Parking area provided in hollow plinth (m^2) & No. of ECS: 2,434.00 m^2 & 87 ECS • Parking area provided as open surface (m^2) & No. of ECS: 1,853.50 m^2 & 81 ECS • Parking area provided as 1st floor (m^2) & No. of ECS: 4,917.50 m^2 & 154 ECS
16.	Traffic Management	• Width of adjacent public roads: 30 m wide road in N Direction • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • 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): 5 m • Width of all internal roads: 7.50 m
17.	Details of Green Building measures proposed.	Use of fly ash based material, flush tank instead of direct flushing in toilets, foam type aerated coke, rain water harvesting, use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles in common areas, maximum use of natural light etc.
18.	Energy Requirement, Source and Conservation	• Power supply Maximum demand: 1500 KVA Source: D.G.V.C.L • Energy saving measures: Use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles in common areas, maximum use of natural light, solar water heaters on terrace of each building etc. • DG Sets No. and capacity of the DG sets: 1 x 125 KVA Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & quantity – 55 L/h in each.
19.	Fire and Life Safety Measures	Fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system (basement), manually operated electric fire alarm system, automatic detection& alarm system, underground fire water storage tank (100 KL), terrace tank of 25 KL for each building, provision of pump: one electric & one diesel pump of capacity 1620 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm^2 at terrace level etc.

20. Details on staircase

Bldg. No.	Floor No.	Floor Area (m^2)	No. of Staircase	Width of Staircase (m)	No. of Passenger Lift	No. of Fire Lift	Maximum Travel Distance up to the Staircase (m)
A1 – A5	B+H.P. +9	345.75	02	2.0	01	01	<20
B1 & B2	B+H.P. +10	291.71	02	2.0	01	01	<20

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: about 20 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
22.	Green area details	• Tree covered area (m^2) : 395.0 • Area covered by shrubs and bushes (m^2): -- • Lawn covered area (m^2): 596.0 • Total Green Area (m^2): 991.0 • Green Area % of plot area: 10.00 % • No. of trees and species to be planted: 66 trees of Gulmohar, Neem tree, Coconut palm, Asopalav, Champa etc.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Capital cost of Rs. 40.55 lacs and recurring cost of Rs. 5.95 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management, sewage treatment & reuse etc.
24.	Proposed dust control measures.	Water sprinkling, covered shed for cement unloading activity, tarpaulin cover on excavated earth & construction material etc.
25.	Use of Eco – friendly building materials.	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.
26.	Details on amenities to be provided to construction workers.	Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.
27.	Documents related to land possession.	N.A order for residential & commercial use is in the name of applicant. Copy of partnership deed of M/s Bhavani Developers registered with Sub-registrar Surat, has also been submitted. Copy of index of Sub-registrar's office showing that the land is in the name of M/s Bhavani Developers has been submitted.

6. "**Celebration Homes**" at Block No. 43, O.P. No. 15, F.P. No. 15, TPS No. 21, (Sarthana - Simada), Surat proposed by Mr. Satishbhai Gabhrubhai.

This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/NCP/51938/2016 on 21/03/2016.

This is a proposed building construction project having plot area of 11,181.47 m^2, FSI area of 24,961.22 m^2 and the proposed built up area of the project is 39,332.58 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the residential building construction project with plot area of 11,181.47 m^2, FSI area of 29,457.60 m^2 (2.6) and built up area of 44,420.8 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 27/04/2016.

The project proponent along with their expert / consultants attended the SEAC meeting held on 27/04/2016 and made presentation before the committee. During the meeting, the project was appraised based on the information furnished in Form-1 & Form1A as well as details presented before the committee.

During the meeting held on 27/04/2016, the project proponent was asked to obtain necessary permission before cutting the trees existing at the project site. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Details on the FSI permissible to the project and permission / authentic supporting documents showing availability of the proposed FSI.

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent submitted revised Form – 1 & Form – 1A along with project plans and revised project details to this office on 29/06/2016. They have submitted revised Form – 1 & Form – 1A for the proposed project with the base FSI of 2.23 i.e FSI area of 24,961.22 m^2 & built up area of 39,332.58 m^2 on the same land area of 11,181.47 m^2 instead of originally proposed FSI of 2.6. The proposed residential buildings will be of hollow plinth + 12 floors instead of hollow plinth + 14 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Revised Form – 1 & Form – 1A has also been submitted online along with the additional details submitted on 04/07/2016.

The said submission of the project proponent was considered by the committee in the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 27/04/2016 with FSI of 2.6 and now as the project proponent wants to scale down the project with base FSI

of 2.23 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features tabulated below:

<table>
<tr><th>Sr. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>1.</td><td>Proposal is for</td><td>New Project[SIA/GJ/51938/2016]</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>Celebration Homes</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>Mr. Satishbhai Gabhrubhai</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 90 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): 11,181.47
• FSI area (m^2): 24,961.22
• Total BUA (m^2): 39,332.58

<table><tr><th></th><th>Permissible</th><th>Proposed</th></tr><tr><td>FSI Area (m^2)</td><td>24,990.30</td><td>24,961.22</td></tr><tr><td>Ground Coverage (m^2)</td><td>3,186.43</td><td>2,426.88</td></tr><tr><td>Common Plot Area (m^2)</td><td>1,120.07</td><td>1,120.07</td></tr><tr><td>Max. building height (m)</td><td>65 m</td><td>38.5</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings:8
• No. of Blocks:8
• Scope of buildings/blocks: Basement + hollow plinth + 12 floors.
• No.& size of Residential Units:192 units
• No. & type of Commercial Units:--
• Details of amenities if any: Club house</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>1008</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 15.0
• Source of water: Water supply from SMC.
• Waste water generation quantity (KL/day): 2.1
• Mode of disposal: Into drainage line of SMC.</td></tr>
<tr><td>12.</td><td>Water & waste water</td><td>• Fresh water requirement (KL/day): 125.0
• Source of water: Water supply from SMC.</td></tr>
</table>

<table>
<tr><td></td><td>details during operation phase</td><td>• Waste water generation quantity (KL/day): 92.0
• Mode of disposal: Into drainage line of SMC.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Both drainage and water supply lines are available in the area.</td></tr>
<tr><td>14.</td><td>Solid waste Management</td><td>Construction Phase:
<table>
<tr><td></td><td>Generation (m^3)</td><td>Quantity to be reused (m^3)</td><td>Mode of Disposal / Reuse</td></tr>
<tr><td>Top Soil</td><td>5,590.7 m^3</td><td>500 m^3</td><td>•500 m^3 of excavated Top soil will be utilized for greenbelt development
•5090.7 m^3 of excavated Top Soil will be utilized at other project site after obtaining necessary permission if any</td></tr>
<tr><td>Other excavated earth</td><td>18213 m^3</td><td>6708 m^3</td><td>6708 m^3 of excavated Soil will be utilized for back filling within site. Excess soil of 11,505 m^3 will be utilized at other project site after obtaining necessary permission if any</td></tr>
<tr><td>Construction debris</td><td>15kg/day</td><td rowspan="3">Nil</td><td rowspan="3">Sold off to recyclers</td></tr>
<tr><td>Steel scrap</td><td>15kg/day</td></tr>
<tr><td>Discarded packing materials</td><td>6kg/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</td><td>128 kg/day</td><td rowspan="2">Into separate bins to be provided within premises.</td><td rowspan="2">Will be collected through door to door waste collection system of SMC for final disposal at Khajod disposal site.</td></tr>
<tr><td>Wet waste</td><td>132 kg/day</td></tr>
</table>
• Details of segregation if to be done: Separate bins for dry and wet waste provided to each unit
• Capacity and no. of community bins to be placed within premises: 8 nos. of bins having capacity of 25 kg each for dry waste and 8 nos. of 25 kg for wet</td></tr>
</table>

		waste will be provided to building. • Landfill site where waste will be ultimately disposed by local authority: Khajod Disposal Site
15.	Parking Details	• Total parking area requirement for the project as per GDCR: 3,744.18 m^2. • Parking area requirement for residential units as per GDCR: 3,744.18 m^2. • Total number of CPS requirement for the project as per NBC :192 • Number of CPS requirement for residential units as per NBC: 192 • Total Parking area provided (m^2) & No. of ECS: 8,720.29 m^2 and 278 CPS • Parking area provided in basement (m^2) & No. of ECS: 7,536.08 m^2 and 236 CPS • Parking area provided in hollow plinth (m^2) & No. of ECS: 1,184.21 m^2 and 42 CPS.
16.	Traffic Management	• Width of adjacent public roads:18 m wide TP road • Number of Entry & Exit provided on approach road/s: One Separate entry and exit will be provided • Width of Entry & Exit provided on approach road/s:7.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width forthe plantation):7.5 m • Width of all internal roads: 7.5 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:1100 KW Connected load:1200 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:4 x 60 KVA Fuel & its quantity: diesel (10 Liter/h) Note : - D.G. Sets will be used incase 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 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, hose reel, wet riser, manually operated electric fire alarm system, terrace fire water tank of 20 KL capacity, underground fire water tank of 100 KL capacity, smoke fire detectors etc.

<table>
<tr><td></td><td></td><td>• Nearest fire station: Varachha fire station.
Distance from project site: 2 km.</td></tr>
<tr><td>20.</td><td>Details on staircase
<table>
<tr><th>Type & no. of buildings</th><th>No. of floors</th><th>Floor area</th><th>No. of staircase</th><th>Width of the staircase</th><th>Travel distance (m)</th></tr>
<tr><td>A,C,E,G
4 nos of building</td><td>B+H.P+12 floors</td><td>237.48</td><td>1</td><td>2.0 m</td><td>Less than 15 m</td></tr>
<tr><td>B,D,F,H
4 nos of Building</td><td>B+H.P.+12 floors</td><td>288.87</td><td>1</td><td>2.0 m</td><td>Less than 15 m</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 16 m
• No. & dimensions of RWH tank(s) :-
• 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
• Area covered by shrubs and bushes (m^2): 300
• Lawn covered area (m^2): 400
• Total Green Area (m^2): 1,300
• Green Area % of plot area: 9%
• No. of trees and species to be planted: 300</td></tr>
<tr><td>23.</td><td>Budgetary allocation for Environmental Management Plan(Rs. in lacs)</td><td>Green belt development : 70 Lacs
Drainage and rain water harvesting: 50 lacs
Solar and energy saving: 30lacs
Total: 150Lacs</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>Village form no. 7/12 submitted by them shows that the agricultural land of the project site is in the name of applicant Mr. Satishbhai Gabhrubhai and a copy of application made for obtaining N.A permission has been submitted.</td></tr>
</table>

7. **"Polaris Textile City"** at B.No.77, F.P.No.63 (as per draft), F.P.No.82 (as T.R.), O.P.No.58, T.P.S.No.19 (Parvat-Magob), Moje: Parvat, Ta: Choryasi, Dist: Surat proposed by M/s Sankalp Associates.

This office has received an application for Environment Clearance of the above project vide proposals no.

SIA/GJ/NCP/3240/2015 on 17/10/2015 and SIA/GJ/NCP/16692/ 2015 dated 08/07/2016.

This is a proposed building construction project having plot area of 19,900.0 m^2, FSI area of 24,555.84 m^2 and the proposed built up area of the project is 62,007.17 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the commercial building construction project with plot area of 19,900.0 m^2, FSI area of 79,599.74 m^2 and the built up area of 1,23,546.86 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 27/01/2016.

The project proponent along with their expert / consultants attended the SEAC meeting held on 27/01/2016 and made presentation before the committee. During the meeting held on 27/01/2016, the project was appraised based on the details furnished in the Form – 1 & Form – 1A as well as facts presented before the committee.

During the meeting held on 27/01/2016, the project proponent was suggested to provide flameproof electrical fittings only in the proposed textile market. While discussing about the fire fighting measures, it was presented that MCB & RCB switches will be provided which will be tripped in case of case of fluctuation or higher power load to prevent electric overloading or sparkling. While asking by the committee, it was replied that drinking water facility and separate toilet blocks for male & female will be provided on each floor as common facilities. It was presented that traffic survey was carried out on 60 m wide Surat-Kadodara road which shows that the Level of Service in existing as well as in proposed scenario will remain the same as excellent “A”. They have submitted a copy of notarized undertaking stating that any kind of manufacturing activity will not be allowed in the commercial units of the proposed project and any textile house will not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics. While asking by the committee, it was replied that provision of natural & mechanical ventilation (exhaust fans), LED lights, gas detection system associated with sensors & automatic alarms, two nos. of oxygen level sensors with alarm system will be made in basements. During the meeting, copy of permission obtained from Airports Authority of India for permissible building height of 80 m above the ground level has also been submitted. After discussing the various aspects of the project, it was decided to consider the project only after submission of the following:

1. Copy of permission obtained from the concerned authority for FSI of 4.0
2. Actual parking requirement for the proposed textile market as per the NBC norms and revised details on the parking area provision as per the requirement of NBC norms.

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

Meanwhile, the project proponent vide their letter dated 22/06/2016 submitted revised Form – 1 & Form – 1A along with project plans and revised project details. They have submitted revised Form – 1 & Form – 1A for the proposed project with the base FSI of 1.2 i.e FSI area of 24,555.84 m^2 & built up area of 62,007.17 m^2 on the same land area of 19,900.0 m^2 instead of originally proposed FSI of 3.99. The proposed commercial building will be of ground floor + 2 floors instead of ground floor + 8 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Revised Form – 1 & Form – 1A has also been submitted online vide proposal no. SIA/GJ/NCP/16692/2015 dated 08/07/2016.

The said submission of the project proponent was considered by the committee in the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 27/01/2016 with FSI of 3.99 and now as the project proponent wants to scale down the project with base FSI of 1.2 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features 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/3240/2015 & SIA/GJ/NCP/16693/16]</td></tr>
<tr><td>2.</td><td>Type of Project</td><td>Commercial</td></tr>
<tr><td>3.</td><td>Project / Activity No. [8(a) or 8(b)]</td><td>8(a)</td></tr>
<tr><td>4.</td><td>Name of the project</td><td>“The Polaris Textile City”</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>M/s Sankalp Associates</td></tr>
<tr><td>6.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 150 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): 19,900.0
• FSI area (m^2): 24,555.84
• Total BUA (m^2): 62,007.17
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area (m^2)</td><td>35,820.0</td><td>24,555.84</td></tr>
<tr><td>Ground Coverage (m^2)</td><td>8,955.0</td><td>8,940.22</td></tr>
<tr><td>Common Plot Area (m^2)</td><td>1,991.25</td><td>1,998.00</td></tr>
<tr><td>Max. building height (m)</td><td>45.0</td><td>15.24</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: Commercial Textile Houses. 2 level basement + ground floor + 2 floors.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• No. & size of Residential Units: --
• No. & type of Commercial Units: 340 Textile Houses
• Details of amenities if any: --</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Expected residents: --
Expected shop users: 4380
Expected visitors: 2000</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 14.50
• Source of water: Borewell water
• Waste water generation quantity (KL/day): 2.16
• Mode of disposal: Into Soak pit
• Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment.</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Total water requirement (KL/day): 83.0
• Fresh water requirement (KL/day): 47.0
• Source of water: water supply from Surat Urban Development Authority (SUDA)
• Waste water generation quantity (KL/day): 56.5
• Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening & flushing purpose and only remaining quantity of treated sewage will be discharged into the drainage line of SUDA
• In case of STP provision, capacity of STP: Capacity 200.0 KL/day
• STP Technology: Primary, Secondary & Tertiary Treatment.
• Purposes for treated water utilization: Treated sewage will be utilized in gardening and flushing.
• Quantity of treated water to be reused: 1. Gardening (KL/day): 8.0 KL/day, 2. Flushing (KL/day): 28.0 KL/day
• 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 used for gardening & flushing purpose and only remaining quantity of treated sewage will be discharged into the drainage line of SUDA
• Mode of disposal: As above.</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>The project is covered under the Town Planning Scheme of SUDA and the water supply as well as drainage connection will be available to the project at the time of getting B.U. Permission.</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>999.00</td><td>999.00</td><td>Reuse for developing garden area</td></tr>
<tr><td>Other excavated earth</td><td>1,51,762.29</td><td>1,277.54 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>1297</td><td>618</td><td>Reused as a filler up to plinth level and</td></tr>
</table></td></tr>
</table>

					remaining will be reused in outer road development
			Steel scrap	49	-- Sold to local scrap vendors
			Discarded packing materials	31	-- Sold to local vendors

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	162.0	Blue colour bucket	Through S.M.C's door to door waste collection system
Wet waste	108	Green colour bucket	Through S.M.C's door to door waste collection system
STP sludge	STP sludge will be disposed off through SMC after drying.		

- Details of segregation if to be done: Separate bins will be provided to collect dry and wet waste.
- Capacity and no. of community bins to be placed within premises: Two separate community bins for the building to collect dry & wet waste.
- Landfill site where waste will be ultimately disposed by local authority: Khajod landfill site of S.M.C

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 7,366.75 m^2 • Parking area requirement for Commercial units as per GDCR: 7,366.75 m^2 • Total number of CPS requirement for the project as per NBC : 491 • Number of CPS requirement for commercial units as per NBC: 491 • Total Parking area provided (m^2) & No. of ECS: 36,263.0 m^2 & 1,160 ECS • Parking area provided in basement (m^2) & No. of ECS: 35,155.0 m^2 & 1,068 ECS • Parking area provided as open surface (m^2) & No. of ECS: 2,108.0 m^2 & 92 ECS.
16.	Traffic Management	• Width of adjacent public roads: 45.0 m wide road in W direction • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • Width of Entry & Exit provided on approach road/s: 8.50 m & 7 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3.50 m • Width of all internal roads: 8.5 m, 7.0 m & 4.7 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

<table>
<tr><td></td><td></td><td>& reuse of treated sewage etc.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply
Maximum demand: 1500 KVA
Connected load:
• Source: DGVCL
• Energy saving measures: Use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles on terrace floor, maximum use of natural light etc
• DG Sets
No. and capacity of the DG sets: 03x 125 KVA
Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & quantity 55 L/h in each.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>Fire extinguishers at each floor, hose reel at each floor, wet riser opening at each floor, yard hydrant, automatic sprinkler system for all the passages & basement (3060 nos.), manually operated electric fire alarm system, automatic fire detection & alarm system, underground static fire water storage tanks of 660 KL capacity, terrace tank of 15 KL capacity, one electric & one diesel 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>No. of floor</th><th>Floor Area (m^2)</th><th>No. of staircase</th><th>Width of Staircase (m)</th><th>No. of Fire Lift</th><th>No. of passenger Lift</th><th>Maximum Travel Distance up to the Staircase</th></tr>
<tr><td>2B + G+ 2 floors</td><td>9,106.14</td><td>10</td><td>2.00</td><td>08</td><td>20</td><td>19.29</td></tr>
</table></td></tr>
<tr><td>21.</td><td>Rain Water Harvesting (RWH)</td><td>• Level of the Ground water table: 12.00 m
• No. & dimensions of RWH tank(s) : 10 no. of RWH tanks;
size: 4m x 3m x 3m
size of Bore: 350 mm dia.
size of pipe: 150 mm dia.
• No. and depth of percolations wells: 10 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) : 598.0
• Area covered by shrubs and bushes (m^2): --
• Lawn covered area (m^2): 1400.0
• Total Green Area (m^2): 1,998.00
• Green Area % of plot area: 10.00 %
• No. of trees and species to be planted: 100 trees of Asopalav, Bamboo, Neem, Gulmohar etc. will be planted within premises.</td></tr>
</table>

23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Capital cost of Rs. 103.30 lacs and recurring cost of Rs. 4.85 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management etc.
24.	Proposed dust control measures.	Water sprinkling, covered shed for cement unloading activity, tarpaulin cover on excavated earth & construction material etc.
25.	Use of Eco – friendly building materials.	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.
26.	Details on amenities to be provided to construction workers	Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.
27.	Documents related to land possession	Village form no. 7 & 12 shows that the land is in the name of M/s Sankalp Associates through its partners. N.A permission has been obtained by land owners for residential cum commercial use of the land.

8. **"Raj Textile Market"** Block No. 87, O.P.No.49, F.P.No.54 (as per draft), Block No.87/A, O.P.No.49/1, F.P.No.69 (as per preli.), T.P.S.No.19 (Parvat-Magob), Ta: Choryasi, Dist: Surat proposed by M/s Arihant Associates.

This office has received an application for Environment Clearance of the above project vide proposals no. SIA/GJ/NCP/2357/2015 on 28/09/2015 and SIA/GJ/NCP/16694/ 2015 dated 08/07/2016.

This is a proposed building construction project having plot area of 8,325.0 m^2, FSI area of 9,441.06 m^2 and the proposed built up area of the project is 25,719.76 m^2. As the built up area is >20,000 m^2 and <1,50,000 m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

The project proponent has originally applied for the commercial building construction project with plot area of 8,325.0 m^2, FSI area of 26,105.21 m^2 and the built up area of 44,709.65 m^2. Based on their original application, the project proponent was called for presentation and discussion in the meeting of SEAC held on 29/12/2015.

The project proponent along with their expert / consultants attended the SEAC meeting held on 29/12/2015 and made presentation before the committee. During the meeting held on 29/12/2015, the project was appraised based on the details furnished in the Form – 1 & Form – 1A as well as facts presented before the committee.

During the meeting held on 29/12/2015, it was presented that traffic survey was carried out on a road connecting to the project site and the 60 m wide Surat-Kadodara road and it shows that Level of Service of the road will remain the same as excellent "A" even after the proposed project. The project proponent was suggested to provide flame proof electrical fittings. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Details and specification of the fire proof electrical fittings (switches, wires, MCBs etc.) to be installed,

maximum power demand of the project considering the existing as well as future scenario, connected load etc. for the proposed commercial project and how it will be ensured that the proposed electrical fittings and connected load will be adequate enough for the project in order to avoid any chances of fire in future.

2. Details on traffic movement plan within premises including space for loading-unloading with approach roads & lifts, parking of heavy vehicles, visitors parking, owners parking, sign boards etc.

Project proponent submitted the above mentioned details to this office on 14/03/2016 along with the specifications of the electrical fittings. It was mentioned that MCB & RCB switches will be provided which will be tripped in case of fluctuation or higher power load to prevent electric overloading or sparkling. Provision of 1 MCB switch for each floor & automatic power ON/OFF switch will be provided for entire building. Electrical fittings & wiring of flame proof material approved by IS & DGMS will be used. Further it was mentioned that loading / unloading activity will be carried out at ground floor & upper basement level.

During the meeting of SEAC held on 04/05/2016, it was brought to the notice of the committee that many building construction projects, including the proposed project, falling under the limits of Surat Municipal Corporation & Surat Urban Development Authority have applied for obtaining Environmental Clearance with the additional FSI, which is not available as per the provisions of existing General Development Control Regulation (GDCR) of Surat Urban Development Authority (SUDA) & Surat Municipal Corporation (SMC) and require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the additional FSI with associated additional ground coverage, building height, relaxation in margin etc. The matter was discussed during the meeting of SEAC held on 04/05/2016 and it was decided to seek opinion from SMC & SUDA for processing of applications of such projects which require to obtain permission from Urban Development & Urban Housing Department, Gandhinagar for the FSI which is more than the provisions of existing GDCR of SUDA & SMC. The opinion was sought vide this office letter no. EIA-10-2007-29-P/1290 dated 25/05/2016.

In view of the above, as the permission for the additional FSI for the project has yet not been obtained, the project proponent submitted revised Form – 1 & Form – 1A along with project plans and revised project details to this office on 08/07/2016. They have submitted revised Form – 1 & Form – 1A for the proposed project with the base FSI of 1.13 i.e FSI area of 9,441.06 m^2 & built up area of 25,719.76 m^2 on the same land area of 8,325.0 m^2 instead of originally proposed FSI of 3.13. The proposed commercial building will be of ground floor + 2 floors instead of ground floor + 7 floors as proposed earlier. They have submitted revised project details like water requirement & sewage generation, solid waste generation & management during construction & operation phase of the project, parking area provision, greenbelt development etc. Revised Form – 1 & Form – 1A has also been submitted online vide proposal no. SIA/GJ/NCP/16694/2015 dated 08/07/2016.

The said submission of the project proponent was considered by the committee in the meeting. During the meeting, the committee was of the view that the project was appraised during the meeting of SEAC held on 29/12/2015 with FSI of 3.13 and now as the project proponent wants to scale down the project with base FSI of 1.13 which is available as per the prevailing GDCR of SMC/SUDA as well as the revised project details submitted by them was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the project features tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [Proposal No. SIA/GJ/NCP/2357/2015 & SIA/GJ/NCP/16694/ 2015]
2.	Type of Project	Commercial

<table>
<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>Raj Textile Market</td></tr>
<tr><td>5.</td><td>Name of Developer</td><td>M/s Arihant Associates</td></tr>
<tr><td>6.</td><td>Estimated Project Cost
(Rs. In Crores)</td><td>Rs. 60.0 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): 8,325.0
• FSI area (m^2): 9,441.06
• Total BUA (m^2) : 25,719.76

<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area (m^2)</td><td>14,985.0</td><td>9,441.06</td></tr><tr><td>Ground Coverage (m^2)</td><td>---</td><td>3746.25</td></tr><tr><td>Common Plot Area (m^2)</td><td>832.50</td><td>836.00</td></tr><tr><td>Max. building height (m)</td><td>--</td><td>16.54</td></tr></table></td></tr>
<tr><td>9.</td><td>Building Details</td><td>• No. of Buildings: 1 No.
• No. of Blocks: 1 No.
• Scope of buildings/blocks:.2 level basement + ground floor + 2 floors.
• No. & size of Residential Units: --
• No. & type of Commercial Units: 118 Nos. textile houses.
• Details of amenities if any: --</td></tr>
<tr><td>10.</td><td>No. of expected residents / users</td><td>Expected shop users: 472
Expected visitors: 300</td></tr>
<tr><td>11.</td><td>Water & waste water details during construction phase</td><td>• Water requirement (KL/day): 14.50
• Source of water: Borewell water
• Waste water generation quantity (KL/day): 2.16
• Mode of disposal: Into septic tank/soak pit.
• Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment.</td></tr>
<tr><td>12.</td><td>Water & waste water details during operation phase</td><td>• Fresh water requirement (KL/day): 28.5
• Source of water: Water supply from Surat Municipal Corporation (SMC).
• Waste water generation quantity (KL/day): 20.0
• Mode of disposal: Into U/G drainage line of Surat Municipal Corporation (SMC).</td></tr>
<tr><td>13.</td><td>Status of water supply and drainage line</td><td>Project site is covered under the town planning scheme of SMC and the water supply as well as drainage line will be available to the project at the time of getting B.U. permission.</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></table></td></tr>
</table>

Top Soil	418.0	418.0	Reuse for developing garden area
Other excavated earth	57,825.27	1,438.11 m^3 will be reused for back filling and raising the plinth level.	Disposal at other project site in consultation with SMC.
Construction debris	469	224 m^3 will be reused as a filler up to plinth level.	Remaining quantity will be reused for outer road development
Steel scrap	18	--	Sold to local scrap vendors
Discarded packing materials	11	--	Sold to local vendors

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	54.0	Blue colour bucket	Through door to door waste collection system of SMC.
Wet waste	36.0	Green colour bucket	Through door to door waste collection system of SMC.

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

15.	Parking Details	• Total parking area requirement for the project as per GDCR: 2,832.31 m^2 • Parking area requirement for Commercial units as per GDCR: 2,832.31 m^2 • Total number of CPS requirement for the project as per NBC : 188 • Number of CPS requirement for commercial units as per NBC: 188 • Total Parking area provided (m^2) & No. of CPS: 13,933.0 m^2 &

<table>
<tr><td></td><td></td><td>440 CPS
• Parking area provided in basement (m^2) & No. of CPS: 13,209.0 m^2 & 412 CPS
• Parking area provided in hollow plinth (m^2) & No. of CPS: 441.0 m^2 & 16 CPS
• Parking area provided as open surface (m^2) & No. of CPS: 283.0 m^2 & 12 CPS.</td></tr>
<tr><td>16.</td><td>Traffic Management</td><td>• Width of adjacent public roads: 24.0 m wide road in N direction.
• Number of Entry & Exit provided on approach road/s: 2 gates will be provided
• 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): 6 m
• Width of all internal roads: 7.50 m.</td></tr>
<tr><td>17.</td><td>Details of Green Building measures proposed.</td><td>Use of fly ash based material, rain water harvesting & ground water recharge, provision of flush tank instead of direct flushing in toilet, provision of foam type aerated cock for water usage.</td></tr>
<tr><td>18.</td><td>Energy Requirement, Source and Conservation</td><td>• Power supply
Maximum demand: 2000 KVA
Source: DGVCL
• Energy saving measures: Use of LED light in common area lighting, solar lights for landscape lighting, maximum use of natural light, reflective /white tiles on terrace etc.
• DG Sets
No. and capacity of the DG sets: 1 x 125 KVA
Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & Quantity- 55 L/hr.</td></tr>
<tr><td>19.</td><td>Fire and Life Safety Measures</td><td>During the operation phase: Fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system in passages of building & in basement, manually operated electric fire alarm system, automatic fire detection & alarm system, underground fire water storage tanks of 150 KL × 4, terrace tanks of 15 KL × 4, provision of pump-one electric & one diesel pump of capacity 2280 L/min. & one electric pump of capacity 180 L/min. @ 3.5 kg/cm^2 pressure connected at terrace tank level etc.

The nearest fire station at Dumbhal is at about 1.5 km distance from the project site and a fire tender will take 5-10 minutes to reach the project site.</td></tr>
<tr><td>20.</td><td colspan="2">Details on staircase:
<table>
<tr><th>No. of Floor</th><th>Floor Area (m^2)</th><th>No. of staircase</th><th>Width of Staircase (m)</th><th>No. of Fire Lift</th><th>No. of Lift</th><th>Maximum Travel Distance up to the Staircase < 30 m</th></tr>
<tr><td>2B + G + 2</td><td>3778.58</td><td>04</td><td>2.00</td><td>06</td><td>12</td><td>27.10</td></tr>
</table></td></tr>
</table>

21.	Rain Water Harvesting (RWH)	• Level of the Ground water table: 25.0 m • No. & dimensions of RWH tank(s) : 05 no. of RWH tanks; size: 4m x 3m x 3m, size of bore: 350 mm dia., size of pipe: 150 mm dia. • No. and depth of percolations wells: 05 nos. of percolating wells, depth will be kept 5 m above ground water table. • Details on Pre-treatment facilities: A de-silting chamber will be provided to de-silt and remove floating material through bar screen.
22.	Green area details	• Tree covered area (m^2) : 373.0 • Area covered by shrubs and bushes (m^2): -- • Lawn covered area (m^2): 463.0 • Total Green Area (m^2): 836.0 • Green Area % of plot area: 10.0 % • No. of trees and species to be planted: 63 trees of Asopalav, Bamboo, Coconut palm, Neem tree, Gulmohar etc.
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Capital cost of Rs. 7.75 lacs and recurring cost of Rs. 2.35 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management etc.
24.	Proposed dust control measures.	Barricading the project site, water sprinkling, covered shed for cement unloading activity, tarpaulin cover on excavated earth & construction material etc.
25.	Use of Eco – friendly building materials.	Use of fly ash bricks & aerated blocks for partition, paving blocks for parking areas & walk ways, Portland Pozzolona Cement for RCC structure, plaster & flooring etc.
26.	Details on amenities to be provided to construction workers	Drinking water & tap water, sanitation facilities, lunch space, first aid box, free medicines, doctor service, PPEs etc.
27.	Documents related to land possession.	Village form no. 7/12 submitted by them shows that the land is in the name of applicant & others. Copy of application made for obtaining N.A permission has been submitted.

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.	"Gajanana" at S.No.587/3/A, Ajwa-Namieta Road, Moje-Kumetha, Vadodara proposed by M/s. Mahalaxmi Associates. The submission of the project proponent was considered by the committee during the meeting and as it was found satisfactory as well as the Vaghodia Taluka of Vadodara district falls under Safe category from the ground water availability point of view as per the assessment of Central Ground Water Authority (CGWA), it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with a condition that the necessary permission from Central Ground Water Authority (CGWA) shall be obtained before digging up the borewell within premises as well as abstracting ground water for the proposed project. All the conditions stipulated in the permission of CGWA shall be fulfilled in true spirit.
2.	Building Construction Project at R.S.No.497, F.P.No.17/2, T.P.S.No.72, At Hathijan, Ahmedabad proposed by M/s Karunasagar Infrastructure.
3.	Building Construction Project at S.No.375, F.P.No.1, T.P.S.No.:3, Ranip, Ahmedabad proposed by M/s Nila Infrastructure Limited.
4.	"Parklands Village" at Survey No. 44/1, Village: Balitha , Ta: Pardi, Dist: Valsad proposed by Mr. Tushar Shah.
5.	"The Grand Eastern" at T.P.S.No.119 (Nikol), S.No.452, F.P.No.95/1, Nikol, Dist: Ahmedabad proposed by M/s Pearl Associates.
6.	"Siddharth Icon" at R.S. No.- 29/1,29/2, O.P. No.- 40/1, F.P. No. 40/1, T.P.S.No. 65 (Tragad-Jagatpur-Chandkheda-Chenpur-Ranip), Vill: Tragad, Tal: Ghatlodiya, Dist: Ahmedabad proposed by M/s SNKJ Infra Projects Pvt. Ltd.
7.	Building Construction Project at S No.190, 191/B,207 T.P. 84/B, Makarba, Ahemdabad proposed by M/s Kish Developers.
8.	"Avadh Infracon" at Block No.211, T.P.13, F.P.No.131, Near Shyambaba Temple, V.I.P Road, Vill. Bharthana, Vesu, Surat. proposed by Mr. Ashok Undhad. The submission of the project proponent was considered by the committee during the meeting and as it was found satisfactory it was decided to recommend the project again to the SEIAA Gujarat for grant of Environmental Clearance with FSI area of 13,587.15 m^2 with all the conditions same as mentioned in the recommendation no. EIA-10-2015-7110-E-425 dated 24/02/2016 except the condition no. 22 which shall be changed to read as under: 22. Minimum Parking space of 9,602.41 m^2 [2,419.26 m^2 as open surface parking + 3,333.71 m^2 in upper basement + 3,849.44 m^2 in lower basement] shall be provided as proposed.
9.	"Sankalp In" at S.No.722+799,F.P.No.67+82,T.P.S.No.216, Shilaj, Ahmedabad proposed by Sankalp Recreation Pvt. Ltd.

8	SIA/GJ/IND2/15940/2016	**M/s: Jay Industrial Resins Pvt. Ltd.,** Plot No.: 1502, Phase-I, GIDC- Naroda, Ahmedabad.	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Jay Industrial Resins Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/15940/2016 dated 06/06/2016.

Project status: Existing

Project / Activity Details:

This is an existing unit engaged in manufacturing of Polyurethane Resin and PVA Emulsion since 2001 and now proposes for manufacturing of Synthetic Organic chemicals as tabulated below:

Sr. No.	Name of the products	Quantity (MT/Month)		
		Existing	Proposed	Total
1	Polyurethane Resin	25	--	25
2	PVA Emulsion	25	--	25
3	Unsaturated Polyester Resins	--	205	205
	(i) Orthophthalic Resin	--	150	150
	(ii) Isophthalic Resin	--	40	40
	(iii) Vinyl Ester Resin	--	10	10
	(iv) Gelcoats (Resin Derivatives	--	5	5

Proposed expansion will be carried out within the existing plot with area 968 sq. m.
The total cost of the proposed expansion is Rs. 0.15 Crores. Total water consumption after proposed expansion will be 2 KL/day (Existing- 1.975 KLPD + Proposed- 0.025 KLPD). Fresh water will be sourced from GIDC water supply. Total waste water generation will be 1.21 KL/day (Existing- 0.805 KL + Proposed- 0.405 KL). Industrial waste water (0.410 KL/day) will be treated in primary ETP followed by evaporator to achieve zero liquid discharge. Domestic waste water (0.8 KL/day) will be disposed off into soak pit system. At present NG- 2.34 SCM/hr is used as fuel in one TFH. Unit has proposed DG set (65 KVA) as stand-by facility. Diesel (10 ltrs/hr) is proposed as fuel. No process gaseous emission is envisaged. 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. Committee noted that unit has proposed zero liquid discharge and there will be no waste water discharge to CETP or outside premises. Looking to the small scale of the project, location of the project in GIDC-Naroda and low pollution potential from proposed activities, after detailed deliberation, the project was categorized as B2 and the following additional information was sought from the project proponent for appraisal of the project.

1. Plot holding certificate from the GIDC.
2. Need for the proposed expansion should be justified in detail.
3. 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.

4. Exact details about additional infrastructural facilities, plant machineries etc. required for the proposed expansion.
5. Existing as well as proposed monthly production details with raw material consumption for each product. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc.
6. Chemical name of each proposed product to be manufactured. Details on end use of each product. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from each product.
7. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
8. 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.
9. Qualitative & quantitative analysis of each waste stream (including process water, cooling tower blow down, boiler blow down, washing effluent etc.) to be generated. Characteristics of untreated and treated wastewater. A detailed effluent treat ability study vis-à-vis the adequacy and efficacy of the treatment facilities proposed for the wastewater to be generated. The characteristic on which treatability is based shall also be stated. Segregation of waste streams and details on specific treatment and disposal of each stream.
10. Details of the ETP units including its capacity, size of each unit, retention time and other technical parameters.
11. Technical details of evaporator including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler/TFH to supply heat energy for evaporation in addition to the existing requirement. 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.
12. 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.
13. Impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
14. 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.
15. 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.
16. Membership of Common Environmental Infrastructure including CETP, TSDF, Common MEE, CHWIF

(Whichever is applicable).

17. 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.
18. 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.
19. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
20. 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.
21. 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.
22. MSDS of all the products and raw materials.
23. 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.
24. 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?
25. 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.
26. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
27. 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.
28. Proposal for socio-economic development activities including community welfare program most useful in the project area for the overall improvement of the environment.
29. Compliance status of the existing activity with respect to various conditions given in the CC&A order of the

Gujarat Pollution Control Board (GPCB).

30. Copy of Environmental Clearance obtained 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.
31. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.
32. 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.
33. 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.
34. 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.
35. A tabular chart with index for point-wise compliance of above TORs.

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

9	SIA/GJ/IND2/11141/2015	**M/s: Valiant Organics Pvt. Ltd. ,** Plot no: 2906,752,753, 754,755, GIDC-Sarigam, Ta.: Umbergam, Dist.: Valsad	Screening & Scoping

Project / Activity No.: 5(f)

Project status: Expansion

Chronology of EC Process:

- M/s: **Valiant Organics Pvt. Ltd.** (herein after Project Proponent – PP) has submitted an application vide their online proposal no. SIA/GJ/IND2/11141/2015 dated 22/04/2016 along with final EIA report regarding grant of Environmental Clearance.
- EIA Report is prepared by M/s: Eco Chem Sales & Services, Surat based on the ToR issued to the project proponent in the SEAC meeting dated 19/05/2015.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Synthetic Organic Chemicals and now proposed for expansion of the project as tabulated below:

Sr. no.	Name of the Products	Quantity (MT/Month)		
		Existing	Proposed	Total after proposed expansion
1	Di Chloro Phenol	165	435	600
2	Mono Chloro phenol	235	965	1200
3	2:4:6 Tri Chloro Phenol	0	20	20
4	2 Amino 4:6 Di Chloro Phenol	15	0	15

5	Anisole	55	0	55
	Total	470	1420	1890
6	Purification of Solvents	250	0	250

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 7942 sq. m. Unit has proposed 2619 sq m area for the green belt development/ Tree plantation. Expected project cost for proposed expansion is Rs. 8.68 Crores. Fresh water requirement after proposed expansion will be increased from 55.75 KL/day to 119.3 KL/day. Average 23.34 KL/day of effluent from alkali scrubber, cooling tower blow down and boiler condensate will be directly recycled and reused hence fresh water requirement will be 95.96 KL/day. Fresh water will be sourced through GIDC water supply. Wastewater generation after the expansion will be increased from 13.8 KL/day to 25.94 KL/day. After recycling of 23.34 KL/day of effluent, remaining waste water 2.6 KL/day will be sent to ETP followed by Incinerator (Cap. 1000 Kg/hr. Liquid & 100 Kg/hr Solid). Domestic effluent (10 KL/day) will be disposed off into Septic tank/ soak pit system. At present flue gas generation is from one Boiler (6 TPH) and one DG set (250 KVA). Total coal consumption for existing steam boiler after proposed expansion will be 24 MT/day. Total LDO/FO consumption for existing Incinerator after proposed expansion will be 129 Kgs/hr. Total HSD consumption for DG set after proposed expansion will be 30 Kgs/hr. MDC and Bag filter is provided with Boiler as APCM. Water Scrubber followed by Alkali Scrubber is provided as APCM with Chlorinator & Nitrator for control of HCl, CL2 and NOx. Venture Scrubber followed by Caustic Scrubber is provided with Incinerator for control of PM, SO2 and NOx. Unit has installed three stage graphite type falling film systems which completely absorbs HCl gas and produces 30 % HCl. To reduce chlorine losses, they have introduced two stage phenol trap before scrubber system. The trap contains fresh phenol which reacts with any residual chlorine from chlorinators. Any chlorophenol carried over by HCl gas is again trapped by second trap. This measure has brought down alkali consumption in ventury type alkali scrubber by 90 % and they have been able to recycle this scrubber effluent to HCl scrubber without appreciable effect on quality of 30 % HCl. The Hazardous waste to be generated from the manufacturing activity will be ETP sludge, Discarded containers/Bags/Liners, Spent solvent, Incinerator ash, Process waste and used oil.

Observations / Discussion:

Technical presentation made during the meeting by project proponent. EIA report reveals that baseline environmental study was carried out during the month of October 2015 to December 2015 to determine the prevailing status of ambient air, land use, noise level topography, meteorology, ecology & socioeconomic outline. Baseline ambient air quality was measured at 7 locations including project site for parameters like PM2.5, PM10, SO2, NOx, NH3,CS2, H2S, CL2 and VOC. Results were compared with the standard for ambient air quality monitoring as per the Ministry of Environment, Forest and Climate Change (MoEF&CC). During the study PM2.5 was observed between 30.2–44.0µg/m3. Maximum concentration of PM2.5 was found at Project site. PM10 was observed in the range of 71.3 –96.3µg/m3. Maximum concentration of PM10 was found at Project Site. Average value of PM10 was found well within the prescribed norms. SO2 concentration was observed in the range of 16.3- 24.7 µg/m3, which is well within the standard limit. NOx concentration in Ambient Air quality was between 20.2 – 28.6 µg/m3, which is well within the standard limit. Monitoring and analysis was also carried out for NH3, Cl2, VOC, H2S and CS2. Maximum concentration of VOC was found 4.2 ppm at Project Site. Result for the parameters viz, NH3, H2S, CS2 and Cl2 were found well within the norms. On the basis of test results found during the survey it can be concluded that the ambient air quality of

the study region is quite good as all the results are well within the limit. The impact on air quality due to emissions from single source or group of sources is evaluated by using mathematical models for predicting the Ground Level Concentrations (GLCs). The modeling study proves that the air emissions from the proposed expansion there will be no considerable increment in pollutant due to proposed expansion. Risk assessment along with the onsite emergency plan has been submitted. During the meeting, Committee noted that unit has shown (1) Hydro Chloric acid (30%)*, (2)* Sodium Thio Sulphate (40%) and (3) Sodium Sulphate as By-product, which was not considered and asked to submit revised proposal for the management of hazardous wastes as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 which was agreed to by the PP. On asking about the existing activity of Purification of Solvents, PP informed that they are using distillation column for purification of solvents generated within premises. However, PP could not reply satisfactorily regarding source and quantification of the spent solvents. Committee asked to submit complete details of purification of solvents i.e. Source of the spent solvent, compliance of guidelines for the management of the spent solvent published by GPCB. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

1. Revised proposal with complete management of (1) Hydro Chloric acid (30%)*, (2)* Sodium Thio Sulphate (40%) and (3) Sodium Sulphate as per "the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016". Compliance of ToR no. 28.
2. Details of purification of solvents i.e. Source of the spent solvent, compliance of guidelines for the management of the spent solvent published by GPCB. Records of last 3 years with quantity of hazardous waste generated and its disposal.
3. Source and characteristics of process waste (15 MT/Year).
4. Characteristics of the waste water (23.34 KL/day) to be recycled for HCl/Alkali scrubber and its feasibility to reuse in process.
5. Technical details of existing Incinerator and ensure that the design of Incinerator is as per the prevailing guidelines for Incinerators published by CPCB.
6. Schematic diagram of all APCM including scrubbing systems with mass balance.
7. Valid membership certificate of authorised TSDF site.
8. Copies of analysis reports of the water samples & Air samples collected by GPCB (Last 3 years). Copies of instructions issued by GPCB in last 3 years and point wise compliance thereof.
9. Copy of valid CC&A and its point wise compliance.

10	SIA/GJ/IND2/15971/2015	**M/s: Praharit Pigments LLP.,** Plot No. 38/11, GIDC-Jhagadia, Ta.: Jhaghadia Dist.: Bharuch.	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Praharit Pigments LLp (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/15971/2015 dated 07/06/2016.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic organic chemicals as tabulated below:

Sr. no.	Name of Product/Activity	Quantity MT/Month

1.	Pigment green-7/ Pigment green-36	150
2.	Pigment blue 15:3	100
3.	Pigment alpha blue 15:1	15

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.
Total plot area is 18129.82 sq. m & unit has proposed 5980 sq mtr area for the green belt development/Tree plantation.Expected project cost is INR. 10 Crores. Water requirement for the proposed project will be 517 KL/day (10 KL for Domestic, 15 KL for Gardening, 492 KL for Industrial Purpose) and it will be met through GIDC water supply. Industrial waste water generation will be 395 KL/day. Generated wastewater will be treated in ETP having primary, secondary and tertiary treatment units and finally drain off into GIDC drainage line. Domestic waste water (8 KL/day) will be disposed off into septic tank/soak pit system. NG to the tune of 6200 SCM/day will be used in one Steam Boiler (3.5 T/hr.), one Thermic Fluid Heater (10 lakhs kcal) and one HAG. Unit has proposed Two stage water scrubber followed by alkali scrubber, Alkali scrubber, Bag filter as APCM for control of HCl, Cl_2, HBr /Br_2, PM, SO_2, NO_x. ETP waste (75 MT/Month) will be disposed off at the Common TSDF site. Discarded barrels / containers / bags / liners (5000 no.s/year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (500 Lit./Year) will be sold only to the registered recyclers. Inorganic acid (H_2SO_4) (450 MT/Month) will be sold out to SSP/Alum manufacturers. Inorganic acid (HCl) (75 MT/Month) will be sold out to dyes manufacturers. Halogenated compounds (Aluminum Oxy Chloride) (800 MT/Month) will be sold out to textile mills/paper mills.

Discussions & Observations:

Technical presentation made during the meeting by project proponent. PP has proposed that spent sulphuric acid , Spent hydrochloric acid and mother liquor containing high concentration of AlCl3 will be sold out to actual users. Committee observed that the proposal for treatment of highly concentrated waste water & hazardous waste management are not adequate. Upon asking about the EMS for highly concentrated waste effluent and hazardous wastes, PP could not reply satisfactorily. Committee asked to reuse all the waste streams within premises to convert it into valuable products and not to send any waste streams outside premises. Looking to the product profile and its inadequate EMS, after deliberation, It was unanimously decided to consider the project for TOR/Scoping only after satisfactory submission of the following:

1. Revised proposal with Form-1 & PFR.
2. Sound management of all the hazardous waste streams generated from the proposed activities as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
3. Technical justification for quantity of waste water (Stream wise) to be generated from each product and its specific treatment with mode of disposal.
4. Proposal for Zero Liquid Discharge (ZLD).

11	SIA/GJ/IND2/4257/2015	**M/s: Merino Industries Limited,** Plot no. D2/CH/36, GIDC-Dahej, Phase II, Ta.: Vagra, Dist.: Bharuch.	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Merino Industries Limited (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/4257/2015 dated 18/11/2015.
- PP was called for presentation in the SEAC meeting dated 03/02/2016.
- Technical presentation made during the meeting by project proponent. During the meeting, Committee observed that there are discrepancies observed between details submitted in Form-1, PFR and details presented during meeting regarding water consumption, waste water generation, fuel consumption,

hazardous waste management details etc. Committee felt that PP shall submit the revised proposal with correct data. After deliberation, It was unanimously decided to consider the project for TOR/Scoping only after submission of the following: (1) Revised Form-1 & PFR with relevant details.

- PP has submitted additional details with revised form-1 & PFR vide their letter on 24/05/2016

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic Organic Chemicals as tabulated below:

Sr. no.	Name of Products	Quantity
1	Phenol Formaldehyde Resin	321.5 MT/Month
2	Melamine Formaldehyde Resin	77.5 MT/Month
	Total	390 MT/Month

The manufacturing of Phenol Formaldehyde resin and Melamine Formaldehyde resin falls under the project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 880 sq. m & unit has proposed 260 sq m area for the green belt development/Tree plantation. Expected project cost is INR. 6.25 Crores. Proposed site is located within the GIDC estate. Water requirement for the proposed project will be 1.25 KL/day and it will be met through GWIL water supply. Industrial waste water generation will be NIL. VOC will be scrubbed in water scrubber and that water will be used in process in next batch. There will be no flue gas emission and no hazardous waste generation from the proposed project.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Looking to the small scale of the project, technical aspects of the project, low pollution potential, location of site within GIDC estate and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project. Following additional information was sought for appraisal of the project.

1. Plot holding certificate from the GIDC.
2. 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.
3. Proposed monthly production of each grade of resin and product wise monthly consumption of each raw material.
4. Manufacturing process along with chemical reactions, mass balance for each product.
5. 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 concern authority for drawl of raw water.
6. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
7. 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.
8. Justification regarding no use of water for domestic purpose and no waste water generation from domestic activities.

9. Action plan for 'Zero' discharge of effluent shall be included.
10. Justification and technical details regarding "No generation of industrial effluent from any stage of the proposed manufacturing activities". Ensure that there will be no discharge of waste water in any case. Submit legal undertaking in this regard.
11. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
12. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
13. 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.
14. 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.
15. Details of measures proposed for noise pollution abatement & its monitoring.
16. 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?
17. Methodology of de-contamination and disposal of discarded containers and its record keeping.
18. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
19. 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.
20. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
21. 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.
22. 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.
23. 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?
24. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof

electrical fittings, DCP extinguishers and other safety measures proposed.

25. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
26. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
27. 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.
28. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
29. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).
30. 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.
31. Status of any legal case/cases pending on the existing unit.
32. A tabular chart with index for point-wise compliance of above details.

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

12	SIA/GJ/IND2/15686/2016	**M/s: Trisha Specialty Chemicals Pvt. Ltd.,** Plot No:1015 & 1016, GIDC-Kerala, Near Bavla, Ta.: Dholka, Dist.: Ahmedabad.	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Trisha Specialty Chemicals Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/15686/2016 dated 01/06/2016.

Project status: Expansion

The project has obtained Environmental Clearance from SEIAA, Gujarat vide order number SEIAA/GUJ/EC/5(f)/259/2013 dated 22/07/2013 for manufacturing of Methylene Disodium Napthalene Sulphonate - 300 MT/Month at existing premises and now applied for expansion of the project as tabulated below:

Sr. no.	Name of the products	Existing MT/Year	Proposed MT/Year	Total after proposed expansion MT/Year
1	Methylene di-Sodium Naphthalene Sulfonate - SNF (Liquid)	3600	5400	9000
2	Methylene di-Sodium Naphthalene Sulfonate - SNF (Spray Dried)	-	3870	3870
3	Ceramic Binders	-	2000	2000
4	Concrete Admixture	-	1000	1000
5	Di-Octyl Sulfo Succinate	-	3600	3600

	sodium salt (DOSS)			

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.
Total plot area is 2605 sq. m & unit has proposed 400 sq m area for the green belt development/Tree plantation. Expected project cost is INR. 2 Crores. Water requirement for the proposed project will be 58.6 KL/day (0.9 for Domestic, 57.7 KL for Industrial Purpose) and it will be met through GIDC water supply/ Bore well/Canal water. Industrial waste water generation will be 5.16 KL/day, which will be reused for green belt (1 KL/day) and in process (4.16 KL/day). Domestic waste water will be disposed off into septic tank/soak pit system. Consumption of PNG will be increased from 900 SCM/day to 2475 SCM/day for proposed TFH (Cap. 11 Lac Kcal/hr). During the process, Sulfur dioxide/trioxide fumes generated, scrubbed in Caustic scrubber having water jet vacuum ejector pump technology. It will take care of scrubbing the Sulfur dioxide/trioxide fumes from Esterification Process in DOSS product manufacturing. Bottom sludge of Acid tank 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 / Discussion:

Technical presentation made during the meeting by project proponent. While discussing about the waste water management, Committee asked to reuse waste water for industrial purpose only and to not use for gardening purpose, to which PP was agreed upon. Committee also asked to submit feasibility report to reuse waste water for industrial purpose. After deliberation on various aspects, following additional TOR was prescribed for the EIA study covering 5 km radius of the project boundary.

1. Copy of plot holding certificate obtained from GIDC Kerala.
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. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
8. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities.
9. Chemical name of each proposed product to be manufactured. Details on end use of each product.
10. 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.
11. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
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. Qualitative and quantitative analysis of waste water to be generated from the manufacturing process of each product to be manufactured along with mass balance.
14. Segregation of waste streams and details on specific treatment and disposal of each stream.

15. Feasibility report to reuse waste water for industrial purpose.
16. Action plan for complete “Zero Liquid Discharge” (ZLD).
17. Technical justification for reuse of waste water to be generated from Cooling
18. 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.
19. Technical details of proposed Spray dryer including capacity, fuel to be used, adequacy etc. Control measures proposed for the Spray dryer in order to avoid/reduce gaseous emission/VOC from Spray dryer of industrial effluent containing solvents & other chemicals.
20. Application wise break-up of effluent quantity to be recycled / reused in various applications like sprinkling for dust control and green belt development etc. 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 base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
25. 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.
26. Base line 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. Action plan for odour control to be submitted.
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.
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) 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.
46. Copies of Consent to Establish, Consent to Operate orders obtained in past along with point wise compliance status of all the conditions stipulated therein.
47. Copy of Environmental Clearance obtained 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.
48. Status of compliance of previous Environmental Clearance granted in line to circulars published vide F no. J-11011/618/2010-IA-II (I) dated 30/05/2012 and F no. J-11013/41/2006-IA-II (I) dated 20/10/2009 by MoEF&CC.
49. 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.
50. 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.
51. 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.
52. 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.
53. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
54. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
55. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for 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 12/07/2019.
- 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.

13	SIA/GJ/IND2/16029/2016	**M/s: Mody Chemitech,** Plot no. D-2 CH-107, GIDC Estate, Dahej, Ta.: Vagra, Dist. Bharuch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Mody Chemitech, (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16029/2016 dated 08/06/2016.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product	Capacity (MT/Month)
1.	Alkyd Resin [Vegetable oil based]	150
2.	Alkyd Resin [Fatty acid based]	100
3.	Amino Resin [Melamine Formaldehyde Resin]	150
4.	Amino Resin [Urea Formaldehyde Resin]	100
5.	Epoxy Resin	100
6.	Epoxy Lacquer	100
7.	Urea Formaldehyde Resin(Water soluble)	100
	Total	800

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.
Total plot area is 5000 sq. m & unit has proposed 1322 sq m area for the green belt development/Tree plantation. Expected project cost is INR. 2.8 Crores. Water requirement for the proposed project will be 14 KL/day (1 KL for Domestic, 4.5 KL for Gardening, 8.5 KL for Industrial Purpose) it will be met through GIDC water supply/ Bore well. Industrial waste water generation will be 1.9 KL/day, which will be treated in proposed effluent treatment plant followed by Thermic Fluid based Evaporator to achieve Zero Liquid Discharge. The condensate water (1.10 KL/day) will be generated from manufacturing process of Alkyd Resin and Amino Resin and the same will be used for synthesis of urea formaldehyde resin as solvent. Domestic waste water (1 KL/day) will be disposed off into septic tank/soak pit system. LDO/ HSD- 60 lit/hr OR Natural Gas- 60 SCM//hr will be used as a fuel for Thermic Fluid Heater (1 Lac kcal/hr) Thermic Fluid Heater (3 Lac kcal/hr- 2 nos.). HSD to the tune of 20 ltrs/day shall be used in the stand-by DG set (63 KVA Capacity). ETP Sludge and Evaporation residue (1 MT/Year) will be disposed off at the Common TSDF site. Spent carbon & Distillation residue will be disposed off at the CHWIF. Off specification / discarded Resin/ Filtration residue (5 MT/Year) will be disposed off at the CHWIF. Discarded barrels / containers / bags / liners 0.2 MT/day will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.01 MT/Year) will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Committee noted that PP has proposed for zero liquid discharge (ZLD) and there is no any discharge from the proposed project. Looking to the location of the project, low pollution potential in terms of air & water, the following additional information was sought for appraisal of the project.

1. Copy of plot holding certificate obtained from GIDC - Dahej.

2. Demarcation of proposed activities in lay out plan. Exact details about infrastructural facilities, plant machineries etc. required for the proposed project.
3. 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. Give full name and chemical formula of all the raw materials and products.
4. Copy of permission obtained from concern authority for water supply.
5. Water consumption and consumption of each raw material per MT of each product.
6. 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.
7. Technical justification for reuse of condensate water (1.1 KL/day) to be generated from process with characteristics of waste water.
8. Technical details of the ETP/Evaporator including size of each unit, retention time etc.
9. Action plan for 'Zero' discharge of effluent shall be included. Give qualitative and quantitative data with feasibility report for reuse of Mother Liquor in process again. Submit an undertaking in this regard.
10. Plan for management and disposal of waste streams to be generated from spillage, leakages, occasional reactor washing and exhausted media from Scrubber etc.
11. 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.
12. 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.
13. 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. Explore the possibilities for co-processing of the Hazardous waste/Solid waste prior to disposal into TSDF/CHWIF. Methodology of de-contamination and disposal of discarded containers and its record keeping.
14. Membership of Common Environmental Infrastructure including TSDF, Common Hazardous Waste Incineration Facility (CHWIF) along with an assessment to accommodate the additional quantity of wastes to be generated.
15. Complete Management plan for By-products/spent acid to be generated, (if any) from the project including their quantity, quality, characteristics, end use etc. 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 by-products/spent acids from the proposed project.
16. 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.
17. Data on air emissions, wastewater generation and solid / hazardous waste generation and management for the existing plant should also be incorporated. (Comparative data in tabular format).
18. Details of measures proposed for the noise pollution abatement and its monitoring.
19. 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.

20. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment (PPE) 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.
21. 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. MSDS of all the products and raw materials to be used. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
22. 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 (MSIHC) Rules of major hazardous chemicals.
23. 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.
24. 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.
25. 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.
26. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
27. 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.
28. A tabular chart with index for point-wise compliance of above.

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

14	SIA/GJ/MIS/16120/2016	**M/s: En-Cler Bio Medical Waste Pvt. Ltd.,** Plot no: 310/1 & 2, Phase 2, GIDC-Vapi, Dist.: Valsad	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: En Cler Bio Medical Waste Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/MIS/16120/2016 dated 10/06/2016.

Project status: New

Project / Activity Details:

This unit has proposed to set up a Common Bio-Medical Waste Treatment Facility (CBWTF) for collection, transportation & its management as per the Bio-Medical Waste (Management and Handling) Rules, 1998 as

amended. Proposed capacity of the project is illustrated below:

Facility	Capacity
Incinerator	150 Kg/hr each
Autoclave	125 kg/hr per cycle.
Shredder	200 Kg/ hr

The project falls under Category B of project activity 7(da) as per the schedule of EIA Notification 2006.
Total land area of 4180 sq. m will be utilized for the proposed Centralized Bio-Medical Waste Treatment Facility (CBWTF). Unit has proposed 1388 sq m area for the green belt development/Tree plantation. Expected project cost is Rs.7.45 Crores. The location of the site is within the Vapi-GIDC area. Wastes shall be collected from various Hospitals, Clinics and Health Care units (UCHs) located in the surrounding area of South Gujarat.
Total water consumption for proposed project will be 18.80 KL/day (6.5 KL for Domestic & Gardening, 12.30 KL for Industrial). Industrial waste water generation will be 10 .5 KL/day from Washing and scrubber, which will be treated in proposed ETP (Primary treatment plant) followed by Multiple Effect Evaporator (MEE) to achieve Zero Liquid Discharge (ZLD). The salt generated from the bottom of evaporator will be sent to nearby TSDF site for final disposal and condensate from evaporator will be reused as shown in water balance diagram. Unit has proposed to reuse 10 KL/day treated waste water. Hence, fresh water requirement will be 8.8 KL/day only, which will be sourced from GIDC water supply.. Domestic waste water (1.8 KL/day) will be disposed off into soak pit system.
Anticipated BMW is @ 2 MT/day. Unit has proposed one Incinerator with capacity 150 Kg/hr. Lime & carbon injector, Multi cyclone Separator, Ventury Scrubber with Droplet Separator will be provided as APCM with the Incinerator. Natural gas - 60 SCM/hr will be used as a fuel for Incinerator. Cyclone separator followed by water scrubber is proposed as APCM. The capacity of autoclave will be 125 kg/hr. After disinfection of BMW in autoclave, it will be loaded into shredder machine for shredding process. The proposed shredder will have the capacity of 200 Kg/ hr. The shredded waste will be collected in plastic bags and then will be send to authorized recycler. Unit has proposed one DG set having capacity 150 KVA. Diesel (55 Lit./hr) will be used as a fuel for DG set. ETP waste (2.4 MT/Year), MEE salt (12.6 MT/Year) & Incinerator ash (7 MT/Year) will be disposed off at the nearby common TSDF. Disinfected and shredded plastic materials (260 MT/Year) will be sold out to authorised recyclers. Plastic Waste will be given to authorized recycler approved by GPCB. Glass waste will be given to authorized recycler approved by GPCB/disposed to nearby sanitary land fill facilities. Needle waste (40 MT/Year) will be disposed to in-house Sharp Pit. Used oil (100 Lit./Year) will be sold only to the registered recyclers.

Discussions & Observations:

Technical presentation made during the meeting by project proponent. During the meeting, guidelines published by Central Pollution Control Board (CPCB) for Common Bio-Medical Waste Treatment Facility (CBWTF) were discussed in detail. On asking about the justification regarding the site selection for proposed project of CBWTF in context of CPCB guidelines, PP could not furnish factual data for justification for the selection of proposed site. Committee found that there are CBWTF sites existing within the 150 km radial distance from the proposed site. In view of above, Committee unanimously decided to consider the proposal for screening & scoping only after satisfactory submission of the justification of selection of site with relevant factual data as per the sitting criteria for CBWTF published by CPCB.

15	SIA/GJ/IND2/16166/2016	**M/s: Somnath Boards Pvt Ltd.,** Plot/Survey No-131/3, Village: Varshamedi, Ta.: Anjar, Dist.: Kutch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Somnath Boards Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16166/2016 dated 13/06/2016.

Project status: Existing Unit.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Flush door, Block board & Veneer and proposed for manufacturing of Synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product, units	Capacity per Month		
		Existing	Proposed	Total
Existing products/ processes				
1	Plywood, Flush door, Block board & Veneer	30000 m^2	-	30000 m^2
Proposed products/ processes				
2.	Phenol Formaldehyde Resin	NIL	120.00 MT	120.00 MT
3.	Urea Formaldehyde Resin			
4.	Melamine Urea Formaldehyde Resin			
5.	Melamine Formaldehyde			

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 M^3/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 presentation, PP informed that water requirement is 5.4 KL/day. Fuel requirement is 1.5 MT/day (<25 MT/day) and Chemicals to be used are not covered in MAH category. Hence, the proposed products of resin manufacturing falls under Category B of project activity 5(f) as per the EIA Notification 2006. Total plot area is 17671 sq. m & unit has proposed 1000 sq mtr area for the green belt development/Tree plantation. Expected project cost is INR. 0.14 Crores. Nearest residential area of village Modvadar is @ 1.83 km from the project site. Water requirement for the proposed project will be 5.4 KL/day (2.5 KL for Domestic, 2 KL for Gardening, 0.4 KL for Industrial Purpose) and it will be met through GWIL water supply. Industrial waste water generation will be 0.4 KL/day. This waste water generated from washing having rich glue content will be reused for Glue mixing purpose. There will be no discharge of any industrial waste water from the factory premises. Domestic waste water (1.8 KL/day) will be disposed off into septic tank/soak pit system. Briquettes of Bio-coal to the tune of 1.5 MT/day will be used as a fuel for TFH (15 Lakh Kcal/hr). Multi Cyclone dust collector will be provided as APCM for TFH. Diesel to the tune of 15 ltrs/hr will be used in the stand-by DG set (125 KVA Capacity). No process emission is envisaged. Discarded barrels / containers / bags / liners (1.5 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.15 MT/Year) will be sold only to the registered recyclers.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, plant layout, raw material & resource consumption, manufacturing process, water balance diagram & waste water treatment scheme, hazardous waste generation and its disposal etc. While discussing about waste water generation and its management, PP informed that there is no generation of waste water from manufacturing process. Whatever effluent generated from the washing activity will be reused completely in process. Committee asked to submit complete details regarding reuse of industrial effluent and Zero discharge scheme. Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project. Following

additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site.
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. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area (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 5 KM radius.
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.
7. 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.
8. Proposed monthly production of each grade of resin and product wise monthly consumption of each raw material.
9. Manufacturing process along with chemical reactions, mass balance for each product.
10. 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 concern authority for drawl of raw water.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
12. 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.
13. Action plan for ‘Zero’ discharge of effluent shall be included.
14. Justification and technical details regarding “No generation of industrial effluent from any stage of the proposed manufacturing activities”. Ensure that there will be no discharge of waste water in any case. Submit legal undertaking in this regard.
15. Details of the collection cum reuse tank for waste water generated from the washing activity. Feasibility report with characteristics of waste water for complete reuse in glue making process.
16. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
17. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
18. 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.

19. 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.
20. Details of measures proposed for noise pollution abatement & its monitoring.
21. 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?
22. Methodology of de-contamination and disposal of discarded containers and its record keeping.
23. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
24. 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.
25. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
26. 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.
27. 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.
28. 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?
29. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
30. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
31. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
32. 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.
33. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.

34. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).

35. 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.

36. Status of any legal case/cases pending on the existing unit.

37. A tabular chart with index for point-wise compliance of above details.

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

16	SIA/GJ/IND2/16154/2016	**M/s: Penguin Plywood Pvt. Ltd.,** Survey No 107/1, 107/4, Village Kabraou, Ta.: Bhachau, Dist.: Kutch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Penguin Plywood Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16154/2016 dated 13/06/2016.

Project status: Existing Unit.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Flush door, Block board & Veneer and proposed for manufacturing of Synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product, units	Capacity per Month		
		Existing	Proposed	Total
Existing products/ processes				
1	Plywood, Flush door, Block board & Veneer	66,500 m^2	NIL	66,500 m^2
Proposed products/ processes				
2.	Phenol Formaldehyde Resin	NIL	120 MT	120 MT
3.	Urea Formaldehyde Resin			
4.	Melamine Urea Formaldehyde Resin			
5.	Melamine Formaldehyde			

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 M^3/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 presentation, PP informed that water requirement is 9 KL/day. Fuel requirement is 3 MT/day (<25 MT/day) and Chemicals to be used are not covered in MAH category. Hence, the proposed products of resin manufacturing falls under Category B of project activity 5(f) as per the EIA Notification 2006. Total plot area is 16390 sq. m & unit has proposed 600 sq m area for the green belt development/Tree plantation. Expected project cost is INR. 0.16 Crores. Aerial distance of nearest residential area of village Kabrau is @ 0.5 km from the project site. Water requirement for the proposed project will be 9 KL/day (2.5 KL for Domestic, 1.9 KL for Gardening, 4.6 KL for Industrial Purpose) and it will be met through GWIL water supply. Industrial waste water generation will be 0.6 KL/day. This waste water generated from washing having rich glue content will be reused for Glue mixing purpose. There will be no discharge of any industrial waste water from the factory

premises. Domestic waste water (1.0 KL/day) will be disposed off into septic tank/soak pit system. Briquettes of Bio-coal to the tune of 3 MT/day will be used as a fuel for TFH (25 Lakh Kcal/hr). Multi Cyclone dust collector will be provided as APCM for TFH. Diesel to the tune of 40 ltrs/hr will be used in the stand-by DG set (200 KVA Capacity). No process emission is envisaged. Discarded barrels / containers / bags / liners (1 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.15 MT/Year) will be sold only to the registered recyclers.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, plant layout, raw material & resource consumption, manufacturing process, water balance diagram & waste water treatment scheme, hazardous waste generation and its disposal etc. While discussing about waste water generation and its management, PP informed that there is no generation of waste water from manufacturing process. Whatever effluent generated from the washing activity will be reused completely in process. Committee asked to submit complete details regarding reuse of industrial effluent and Zero discharge scheme. Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project. Following additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site.
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. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area (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 5 KM radius.
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.
7. 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.
8. Proposed monthly production of each grade of resin and product wise monthly consumption of each raw material.
9. Manufacturing process along with chemical reactions, mass balance for each product.
10. 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 concern authority for drawl of raw water.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
12. 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.

13. Action plan for 'Zero' discharge of effluent shall be included.
14. Justification and technical details regarding "No generation of industrial effluent from any stage of the proposed manufacturing activities". Ensure that there will be no discharge of waste water in any case. Submit legal undertaking in this regard.
15. Details of the collection cum reuse tank for waste water generated from the washing activity. Feasibility report with characteristics of waste water for complete reuse in glue making process.
16. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
17. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
18. 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.
19. 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.
20. Details of measures proposed for noise pollution abatement & its monitoring.
21. 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?
22. Methodology of de-contamination and disposal of discarded containers and its record keeping.
23. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
24. 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.
25. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
26. 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.
27. 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.
28. 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?

29. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
30. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
31. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
32. 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.
33. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
34. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).
35. 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.
36. Status of any legal case/cases pending on the existing unit.
37. A tabular chart with index for point-wise compliance of above details.

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

17	SIA/GJ/IND2/16148/2016	**M/s: Ambaji Plywood Industries,** Survey No. 112 paiky, Village:Varshamedi, Taluka: Anjar, Dist: Kutch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Ambaji Plywood Industries (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16148/2016 dated 13/06/2016.

Project status: Existing Unit.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Face/Core, Veneer /Ply, Wood/Flush, Door/Block Board and proposed for manufacturing of Synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product, units	Capacity per Month		
		Existing	Proposed	Total
Existing products/ processes				
1	Face/Core, Veneer /Ply, Wood/Flush, Door/Block Board	125 MT	-	125 MT
Proposed products/ processes				
2.	Phenol Formaldehyde Resin	NIL	140.00 MT	140.00 MT
3.	Urea Formaldehyde Resin			
4.	Melamine Urea Formaldehyde Resin			

5.	Melamine Formaldehyde			

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 M^3/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 presentation, PP informed that water requirement is 4.4 KL/day. Fuel requirement is 2 MT/day (<25 MT/day) and Chemicals to be used are not covered in MAH category. Hence, the proposed products of resin manufacturing falls under Category B of project activity 5(f) as per the EIA Notification 2006. Total plot area is 7439.79 sq. m & unit has proposed 400 sq mtr area for the green belt development/Tree plantation. Expected project cost is INR. 0.14 Crores. Aerial distance of nearest residential area of village Modvadar is @ 1.87 km from the project site. Water requirement for the proposed project will be 4.4 KL/day (2.0 KL for Domestic, 1.5 KL for Gardening, 0.9 KL for Industrial Purpose) and it will be met through GWIL water supply. Industrial waste water generation will be 0.4 KL/day. This waste water generated from washing having rich glue content will be reused for Glue mixing purpose. There will be no discharge of any industrial waste water from the factory premises. Domestic waste water (1.4 KL/day) will be disposed off into septic tank/soak pit system. Briquettes of Bio-coal to the tune of 2 MT/day will be used as a fuel for TFH (6 Lakh Kcal/hr). Multi Cyclone dust collector will be provided as APCM for TFH. Diesel to the tune of 10 ltrs/hr will be used in the stand-by DG set (50 KVA Capacity). No process emission is envisaged. Discarded barrels / containers / bags / liners (0.5 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.08 MT/Year) will be sold only to the registered recyclers.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, plant layout, raw material & resource consumption, manufacturing process, water balance diagram & waste water treatment scheme, hazardous waste generation and its disposal etc. While discussing about waste water generation and its management, PP informed that there is no generation of waste water from manufacturing process. Whatever effluent generated from the washing activity will be reused completely in process. Committee asked to submit complete details regarding reuse of industrial effluent and Zero discharge scheme. Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project. Following additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site.
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. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area (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 5 KM radius.
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.

7. 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.
8. Proposed monthly production of each grade of resin and product wise monthly consumption of each raw material.
9. Manufacturing process along with chemical reactions, mass balance for each product.
10. 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 concern authority for drawl of raw water.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
12. 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.
13. Action plan for 'Zero' discharge of effluent shall be included.
14. Justification and technical details regarding "No generation of industrial effluent from any stage of the proposed manufacturing activities". Ensure that there will be no discharge of waste water in any case. Submit legal undertaking in this regard.
15. Details of the collection cum reuse tank for waste water generated from the washing activity. Feasibility report with characteristics of waste water for complete reuse in glue making process.
16. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
17. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
18. 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.
19. 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.
20. Details of measures proposed for noise pollution abatement & its monitoring.
21. 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?
22. Methodology of de-contamination and disposal of discarded containers and its record keeping.
23. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.

24. 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.
25. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
26. 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.
27. 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.
28. 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?
29. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
30. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
31. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
32. 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.
33. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
34. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).
35. 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.
36. Status of any legal case/cases pending on the existing unit.
37. A tabular chart with index for point-wise compliance of above details.

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

18	SIA/GJ/IND2/16152/2016	**M/s: Jindal Ply (India) Pvt. Ltd.,** Plot/Survey No. 114 Paiky, Varasamedi, Ta.: Anjar, Dist.: Kutch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Penguin Plywood Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16152/2015 dated 13/06/2016.

Project status: Existing Unit.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Flush door, Block board & Veneer and proposed for manufacturing of Synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product, units	Capacity per Month		
		Existing	Proposed	Total
Existing products/ processes				
1	Plywood, Flush door, Block board & Veneer	25000 m^2	-	25000 m^2
Proposed products/ processes				
2.	Phenol Formaldehyde Resin	NIL	120.00 MT	120.00 MT
3.	Urea Formaldehyde Resin			
4.	Melamine Urea Formaldehyde Resin			
5.	Melamine Formaldehyde			

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 M^3/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 presentation, PP informed that water requirement is 5.8 KL/day. Fuel requirement is 1 MT/day (<25 MT/day) and Chemicals to be used are not covered in MAH category. Hence, the proposed products of resin manufacturing falls under Category B of project activity 5(f) as per the EIA Notification 2006. Total plot area is 44115 sq. m & unit has proposed 800 sq mtr area for the green belt development/Tree plantation. Expected project cost is INR. 0.16 Crores. Aerial distance of nearest residential area of village Modvadar is @ 1.85 km from the project site. Water requirement for the proposed project will be 5.8 KL/day (1.5 KL for Domestic, 1.5 KL for Gardening, 2.8 KL for Industrial Purpose) and it will be met through GWIL water supply. Industrial waste water generation will be 0.3 KL/day. This waste water generated from washing having rich glue content will be reused for Glue mixing purpose. There will be no discharge of any industrial waste water from the factory premises. Domestic waste water (0.5 KL/day) will be disposed off into septic tank/soak pit system. Briquettes of Bio-coal to the tune of 1 MT/day will be used as a fuel for TFH (8 Lakh Kcal/hr). Multi Cyclone dust collector will be provided as APCM for TFH. Diesel to the tune of 10 ltrs/hr will be used in the stand-by DG set (125 KVA Capacity). No process emission is envisaged. Discarded barrels / containers / bags / liners (0.5 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.15 MT/Year) will be sold only to the registered recyclers.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, plant layout, raw material & resource consumption, manufacturing process, water balance diagram & waste water treatment scheme, hazardous waste generation and its disposal etc. While discussing about waste water generation and its management, PP informed that there is no generation of waste water from manufacturing process. Whatever effluent generated from the washing activity will be reused completely in process. Committee asked to submit complete details regarding reuse of industrial effluent and Zero discharge scheme. Looking to the

small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project. Following additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site.
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. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area (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 5 KM radius.
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.
7. 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.
8. Proposed monthly production of each grade of resin and product wise monthly consumption of each raw material.
9. Manufacturing process along with chemical reactions, mass balance for each product.
10. 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 concern authority for drawl of raw water.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
12. 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.
13. Action plan for ‘Zero’ discharge of effluent shall be included.
14. Justification and technical details regarding “No generation of industrial effluent from any stage of the proposed manufacturing activities”. Ensure that there will be no discharge of waste water in any case. Submit legal undertaking in this regard.
15. Details of the collection cum reuse tank for waste water generated from the washing activity. Feasibility report with characteristics of waste water for complete reuse in glue making process.
16. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
17. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.

18. 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.
19. 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.
20. Details of measures proposed for noise pollution abatement & its monitoring.
21. 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?
22. Methodology of de-contamination and disposal of discarded containers and its record keeping.
23. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
24. 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.
25. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
26. 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.
27. 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.
28. 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?
29. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
30. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
31. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
32. 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.
33. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility

staff for safety related measures.

34. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).

35. 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.

36. Status of any legal case/cases pending on the existing unit.

37. A tabular chart with index for point-wise compliance of above details.

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

19	SIA/GJ/IND2/16156/2016	**M/s: Royal Wood Pvt. Ltd.,** Survey No. 129, Village.: Modvadar, Ta.: Anjar, Dist.: Kutch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Royal Wood Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16156/2016 dated 13/06/2016.

Project status: Existing Unit.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Flush door, Block board & Veneer and proposed for manufacturing of Synthetic organic chemicals as tabulated below:

Sr. No.	Name of Product, units	Capacity per Month		
		Existing	Proposed	Total
Existing products/ processes				
1	Plywood, Flush door, Block board & Veneer	30,00,000 m^2	NIL	30,00,000 m^2
Proposed products/ processes				
2.	Phenol Formaldehyde Resin	NIL	90.00 MT	90.00 MT
3.	Urea Formaldehyde Resin			
4.	Melamine Urea Formaldehyde Resin			
5.	Melamine Formaldehyde			

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 M^3/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 presentation, PP informed that water requirement is 7.0 KL/day. Fuel requirement is 8.0 MT/day (<25 MT/day) and Chemicals to be used are not covered in MAH category. Hence, the proposed products of resin manufacturing falls under Category B of project activity 5(f) as per the EIA Notification 2006. Total plot area is 11603.62 sq. m & unit has proposed 600 sq mtr area for the green belt development/Tree plantation. Expected project cost is INR. 0.12 Crores. Aerial distance of nearest residential area of village Padana is @ 1.06 km from the project site. Water requirement for the proposed project will be 7.0 KL/day (1.5 KL for Domestic, 1.5 KL for Gardening, 4.0 KL for Industrial Purpose) and it will be met through GWIL water supply. Industrial waste

water generation will be 0.4 KL/day. This waste water generated from washing having rich glue content will be reused for Glue mixing purpose. There will be no discharge of any industrial waste water from the factory premises. Domestic waste water (0.4 KL/day) will be disposed off into septic tank/soak pit system. Briquettes of Bio-coal to the tune of 8 MT/day will be used as a fuel for TFH (20 Lakh Kcal/hr). Multi Cyclone dust collector will be provided as APCM for TFH. Diesel to the tune of 55 ltrs/hr will be used in two stand-by DG sets (125 KVA & 180 KVA Capacity). No process emission is envisaged. Discarded barrels / containers / bags / liners (1 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.17 MT/Year) will be sold only to the registered recyclers.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, plant layout, raw material & resource consumption, manufacturing process, water balance diagram & waste water treatment scheme, hazardous waste generation and its disposal etc. While discussing about waste water generation and its management, PP informed that there is no generation of waste water from manufacturing process. Whatever effluent generated from the washing activity will be reused completely in process. Committee asked to submit complete details regarding reuse of industrial effluent and Zero discharge schemes. Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project. Following additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site.
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. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area (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 5 KM radius.
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.
7. 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.
8. Proposed monthly production of each grade of resin and product wise monthly consumption of each raw material.
9. Manufacturing process along with chemical reactions, mass balance for each product.
10. 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 concern authority for drawl of raw water.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of

each waste stream to be generated.

12. 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.
13. Action plan for 'Zero' discharge of effluent shall be included.
14. Justification and technical details regarding "No generation of industrial effluent from any stage of the proposed manufacturing activities". Ensure that there will be no discharge of waste water in any case. Submit legal undertaking in this regard.
15. Details of the collection cum reuse tank for waste water generated from the washing activity. Feasibility report with characteristics of waste water for complete reuse in glue making process.
16. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
17. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
18. 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.
19. 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.
20. Details of measures proposed for noise pollution abatement & its monitoring.
21. 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?
22. Methodology of de-contamination and disposal of discarded containers and its record keeping.
23. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
24. 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.
25. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
26. 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.
27. 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.

28. 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?
29. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
30. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
31. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
32. 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.
33. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
34. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).
35. 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.
36. Status of any legal case/cases pending on the existing unit.
37. A tabular chart with index for point-wise compliance of above details.

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

20	SIA/GJ/IND2/16225/2016	**M/s: Meghmani Industries Limited,** Plot no. Z-6, SEZ, Dahej, Ta.: Vagra, Dist.: Bharuch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Meghmani Industries Limited (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/16225/2016 dated 14/06/2016.

Project status: Expansion

Project / Activity Details:

This unit is engaged in manufacturing of Chemical, Agrochemical and Intermediates products. Now project proponent has proposed for addition of new plat for manufacturing of Petroleum Dyes as tabulated below:

Sr. no.	Name of the products	Quantity
1.	**Petroleum Dyes** • Petromate Orange 16 • Petromate Green 12 • Petromate Yellow 07	100 MT/Month

	• Petromate Yellow 14 • Petromate Yellow 15 • Petromate Red 7 Petromate Red 13 • Petromate Red 11 • Petromate Blue 14 • Petromate Blue 18 • Petromate Blue 16	

Total plot area of existing premises is 76908 sq. m & unit has allocated 25371 sq m area for the green belt development/Tree plantation. Area of proposed petroleum dyes plant will be 292 sq. m. Expected project cost is INR. 11 Crores. Water requirement for the proposed project will be 18 KL/day (2 KL for Domestic, 16 KL for Industrial Purpose) and it will be met through GIDC water supply/ Bore well/Canal water. Industrial waste water generation will be 6.2 KL/day, which will be treated in proposed ETP followed by evaporation system. Domestic waste water (1.5 KL/day) will be disposed off into septic tank/soak pit system. Unit has proposed solvent recovery set – up followed by cold water, chilled water as well as chilled brine condenser system with process vent for control of traces of VOCs. Bag filter is proposed with spray dryer and Hot air generator. Additional fuel (Coal) requirement for the proposed expansion will be 3.5 KL/day. ETP waste/Evaporation residue will be disposed off at the Common TSDF site. Discarded barrels / containers / bags / liners (0.1 MT/Month) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.5 Kg/Month) will be sold only to the registered recyclers. Spent solvent (0.30 Kg/Month) will be sent to authorised CHWIF. Spent catalyst will be sent back to authorized re-processors for regeneration / reactivation.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, while discussing about the waste water management system, PP informed that the waste water generated from the proposed activity will be treated separately & zero liquid discharge will be maintained and there will be no additional discharge from the premises. Looking to the use of various solvents as raw materials for proposed project, Committee asked PP to ensure compliance of guidelines for the management of the spent solvent published by GPCB. 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 10 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 manufacturing plant 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. Complete waste water management plan for existing as well as proposed production. Detailed effluent treatment scheme and disposal method. Technical details of the ETP 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.
11. Undertaking stating that a separate electric meter will be provided for the ETP & Evaporator.
12. Technical details of proposed Evaporator/Spray dryer 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.
13. Plan for management and disposal of waste streams to be generated from spillage, leakages, occasional reactor washing and exhausted media from Scrubber etc.
14. 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.
15. One season site-specific meteorological data including temperature, relative humidity, hourly wind speed and direction and rainfall shall be provided.
16. 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 10 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
17. 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 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.
18. 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.
19. 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.
20. 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.
21. Type of fuel to be used for the project and copies of confirm fuel linkage/agreement.
22. 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.

23. 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.
24. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. Compliance of guidelines for the management of the spent solvent published by GPCB.
31. Data on air emissions, wastewater generation and solid / hazardous waste generation and management for the existing plant should also be incorporated.
32. Details of measures proposed for the noise pollution abatement and its monitoring.
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. 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.
35. MSDS of all raw materials and products.
36. 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.
37. 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.
38. 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.

39. 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.
40. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
41. 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.
42. 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.
43. Copies of analysis report of the water samples of final outlet of ETP collected by GPCB.
44. Consent to Establish, Consent to Operate orders obtained in past along with point wise compliance status of all the conditions stipulated therein.
45. 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.
46. Status of compliance of previous Environmental Clearance granted in line to circulars published vide F no. J-11011/618/2010-IA-II (I) dated 30/05/2012 and F no. J-11013/41/2006-IA-II (I) dated 20/10/2009 by MoEF&CC.
47. 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.
48. 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.
49. 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.
50. (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.
51. (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.
52. 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.
53. 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.
54. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
55. 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).
56. A tabular chart with index for point-wise compliance of above TORs.

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

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 12/07/2019.
- 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.

21	SIA/GJ/IND2/53222/2016	**M/s: Atlas Life Sciences,** Plot no. C-1, 360, 361, GIDC Estate, Odhav, Dist.: Ahmedabad	Appraisal

Project / Activity No.: 5(f)

- M/s: Atlas Life Sciences, (herein after Project Proponent – PP) submitted Application vide their online proposal no. SIA/GJ/IND2/53222/2016 dated 27/05/2016.
- Earlier, project proponent was called for presentation in the SEAC meeting dated 27/11/2015.
- During the meeting, looking to the zero effluent discharge and low air pollution potential and its location in the industrial estate of Chhatral, the project was categorized as B2 category project and the additional information was sought for appraisal of the project.

Project Status: New

Project / Activity Details:

This is a new unit proposes for manufacturing of Synthetic Organic Chemicals as tabulated below:

Sr. No.	Name of Products	Qty. (MT/month)
1.	Phenylephrine HCl	4.0
2.	Pregabalin	6.0
3.	Levosulpiride	1.0
4.	Linezolid	2.0
5.	Olmesartan Medoxomil	1.0
6.	Gabapentin	5.0
7.	Levetirecetam	2.0
8.	Pantoprazole Sodium Monohydride	3.0
9.	Sucralfate	10.0
10.	Montelukast sodium	2.0
11.	Telmisartan	2.0
12.	Amlodipine Besylate	3.0
13.	Silodosin	0.1
14.	Olenzapine	1.0
15.	Glimepride	2.0
16.	Chlorthalidone	2.0

17.	Tapentadol HCl	0.5
18.	Voricanazole	0.25
Total		46.85

The proposed products fall under Category B of project activity 5(f) as per the EIA Notification 2006.

Total plot area is 1321 sq. m & unit has proposed 200 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs. 4.5 Crores. Total water consumption for proposed project will be 15 KL/day (13 KL Fresh water + 2 KL recycle water). Fresh water will be sourced from Bore well. Industrial waste water generation will be 2.2 KL/day, which will be treated in proposed Primary treatment with followed by Evaporator. Condensate from evaporator will be utilized for greenbelt development.

Domestic waste water (5 KL/day) will be disposed off into soak pit system. It is proposed to install one Boiler (1.5 TPH) and one TFH (1 Lac Kcal/hr). Natural gas (3000 SCM/day) will be used as fuel for Boiler and TFH. No process gas emission is envisaged. One DG set (25 KVA) will be provided as standby facility for emergency purpose. Hazardous waste generated from the manufacturing activity will be ETP sludge (0.025 MT/Month), Evaporation residue (0.25 MT/Month), Distillation residue (0.15 MT/Month), Spent Carbon (0.1 MT/Month), Discarded containers/Bags/Liners and used oil. ETP waste & Evaporation residue will be disposed off at the nearby common TSDF. Distillation residue & Spent carbon will be disposed off at the nearby CHWIF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

During meeting, Committee reviewed point wise reply submitted. As per the submission, the exact aerial distance of the project site from the nearest boundary of the Vatva-Narol CEPI area is 5.13 km. Upon asking about the aerial distance of nearest residential area from the boundary of the project site, PP could not reply satisfactorily. With reference to the processing of application for obtaining Environmental clearance by PP, Committee observed that proposed site is located in industrial estate which is already surrounded by habitats/residential houses, hence, many instances have come to the notices regarding air pollution complaints. Committee felt to visit location of the proposed site so as to evaluate possible impact of upcoming unit. Committee unanimously decided to consider the case after site visit of the aforementioned proposed project.

22	**Cluster Enviro Pvt. Ltd.**	S no. 352,464a,464b,-472,482-486,478-480,489-492,495 Vill. Tranja.s.no.51p,52-55,58-61 of vill. Nagrama matar, Kheda.	Appraisal

Project / Activity No.: 7 (d)

Project status: New

Chronology of EC Process:

Chronology of EC Process:

- This project proposed by M/s: Cluster Enviro Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 27/05/2014.
- The project was considered for TOR finalization in the meeting of the SEAC held on 28/08/2014.
- Public hearing was conducted by Gujarat Pollution Control Board on 29/05/2015 at project site.
- Final EIA Report prepared by San Envirotech Pvt. Ltd. in Association with EQMS India Pvt. Ltd. was submitted project proponent vide their no. NIL dated 22/06/2015.
- During the meeting held on 30/07/2015, the project was appraised based on the information furnished in the EIA Report and the details presented before the committee.

- Technical presentation during the meeting included the Point wise ToR compliance including technical details. Issues raised during the public hearing were discussed in detail. The Committee deliberated upon the issues raised during the Public hearing meeting conducted by the Gujarat Pollution Control Board. The issues were raised regarding benefits to the local villagers due to this project, impact to the ground water, long term effects of the project, affect to the nearby land, water level increase in the area, infrastructure for transportation etc.

- While discussing about the buffer zone of 500 meter from the periphery of the proposed site, PP informed that they will submit the No objection certificates from the surrounding land owners within 500 m adjacent to the boundary of the site. Committee asked to give complete details of land covered within 500 m buffer area with survey no.s, ownership of the land along with lay out plan. Committee noted that Pariej lake which is located within the 10 KM radius from the proposed site is not covered in EIA study. Committee also took note of a letter received from District Collector & District Magistrate, Kheda vide letter no. GPCB/RO-NAD/PH-15/229/2015 dated 01/06/2015 regarding Wetlands of National Conservation significance of Pariej lake. Committee also noted that the detail of Sarus Cranes – an endangered species in this area is not covered in the EIA report. On asking, PP could not reply satisfactorily. While discussing about the site evaluation criteria, Committee asked to submit flood plain report of this area for 100 years. On asking about accreditation of the consultant, representative of San Envirotech Pvt. Ltd. has informed that San Envirotech Pvt. Ltd. in association with EQMS India Pvt. Ltd. has prepared this EIA report and EQMS India Pvt. Ltd. has obtained accreditation from QCI/NABET for category 7(d). At this, Committee noted that representative from the EQMS India Pvt. Ltd. remain not present during meeting. Also name of the experts involved in preparation of EIA report are not declared in the EIA report and there is no documents regarding the association of two consultants. Committee asked to submit all the relevant details regarding accreditation of the Consultant and undertaking as per the MoEF&CC OM dated 04/08/2009. During presentation representative of EQMS India Pvt. Ltd. During reviewing the EIA report, it was observed that there are so many contradictions in the EIA report. The Committee noted that approach of PP and the Environmental Consultant was casual in preparation of EIA report. After detailed deliberations the Committee sought following additional information for further consideration of the proposal:

  1. Submit the EIA report with complete details for following TORs which were found not addressed properly in the EIA report.

TOR no.	Details to be covered in EIA report.
1	Study area shall be 10 KM from the boundary of the proposed project.
2	Page 2-3 & 2-4 of EIA report does not cover the all details as asked in ToR. Give satellite image with exact distance.
3	Method of data preparation is not given. Forest land is not shown in Table no. 3.24. Figure 3.11 is related to Soil sampling. Satellite image is not given.
4	Rejection or Knock out criteria shall be completely covered. Site Investigation and Evaluation, Assigning weightages and scaling, Impact prediction, Impact analysis, Mitigation measures shall be covered as per the CPCB Guidelines (DOCUMENT SERIES HAZWAMS/25/2002-2003)
6	Point wise compliance of all the Guidelines given in the “TGM FOR COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES”

	published by MoEF&CC shall be submitted.
8	Readable lay out plan with proper demarcation shall be submitted. Also cover 500 m buffer area outside the boundary of the proposed site.
10	Details regarding concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, natural resource conservation, Co-processing etc. Shall be submitted.
12	Details related to transportation of the Hazardous waste shall be covered as per the prevailing environmental laws and guidelines.
13	Detailed manifest system, typical analysis protocol for hazardous waste treatment/stabilization, frequency of calibration of weighing machine, system for sampling, testing parameters, analysis methods, time lags, criteria for identifying the wastes which require stabilization prior to the landfill, no. of people, qualifications, manifestation systems, etc shall be covered properly.
14	Statement on adequacy including proposals for accreditation etc. shall be given.
15	Protocol for storing the segregated hazardous waste, compliance to the statutory requirements and proposed safety precautions shall be covered. Point wise compliance of guidelines published by Ministry of Environment Forest (MoEF&CC and CPCB) for designing of the TSDF site shall be submitted.
16 &17	Detailed information and proposal regarding hazardous waste treatment & Stabilization process along with typical analysis protocol for waste treatment/ stabilization shall be submitted.
18 to 22	Ensure that these points are fully covered as per the prevailing guidelines by MoEF&CC and CPCB.
24	Give complete details with the lay out plan as well as site plan with surrounding roads/walkways.
25	Base line status of the existing traffic, impact on it due to the project activities (prior to construction, during construction and at full site operation), carrying capacity of the existing roads and details of traffic management in and outside the project during construction and operation phase of the project.
26	Give relevant details regarding proposed financial model.
27	Air Pollution Control Measures proposed along with its adequacy, List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it.
28	Details regarding fugitive emissions and VOC shall be covered properly.
29	Handling method and storage area details shall be submitted with period of Storage.
30 &	Submit the details as per ToRs.

31	
33 & 37	Justification for (1) Baseline study carried out for 5 KM instead of 10 KM (2) Pariyej Lake is not considered within study area.(3) Information/details of Sarus Cranes is not covered within study area. • Floral & Faunal diversity shall be covered properly. • Distances from project site with direction, type of area of sampling locations not shown. • Conclusion for ambient air quality survey is not given.
38	The input parameters used for modeling shall 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.
40,41, 43	Ensure that all the Valued Environmental Components (VECs) within 10 KM study area are properly covered. Give specific details for all VECs.
46	Give specific details regarding existing trees and its Planning.
47	Detailed quantification and completed management plan of top soil shall be submitted.
48 & 49	Ensure that Table no. 6.1 & 6.2 covering all the parameters/points are as per prevailing guidelines.
50	Cover all the parameters of leachate quality as per prevailing guidelines.
51, 52	Give exact location of the sampling points on satellite image.
59, 60 & 61	Natural hazards and its control measures shall be covered.
69	Documents regarding association of San Envirotech Pvt. Ltd. & EQMS India Pvt. Ltd. to prepare this EIA report. Give documents from concern authority regarding any provision for such type of association is valid.
65	Give specific information for future planning for reuse / recycling of hazardous waste.

2. Clarification regarding discrepancy in survey no.s of proposed site mentioned in Form-1 & EIA report. (As per Form-1 : S. no. 352, 464a, 464b, 465-472,482-486, 478-480, 489-492, 495 of Village – Tranja & S. No. 52 – 55, 58 – 61 of Village – Nagrama and as per final EIA Report S. No. 466, 467, 468, 469, 470, 471, 472, 474, 475, 476, 481, 482, 484, 485, 486, 489 of Village: Tranja and S. No. 58, 59 of Village Nagrama, Ta.: Matar, Dist.: Kheda. Give land possession documents and NA permission letter from concern authority.

3. Clarification about the survey no. 495 of vill. Tranja, for which owner Shri Rameshbhai Solanki has raised the question, Show the exact location of this survey no. on layout plan.

4. Revised Form-1 & PFR covering all the discrepancies between Form- 1 and EIA report.

5. Technical justification for leachate generation rate. Quantity of leachate generation per day and the characteristic on which leachate generation is based shall also be stated.

6. Stream wise qualitative and quantitative assessment of the wastewater. A detailed treatability study vis-à-vis the adequacy and efficacy of the treatment facilities proposed for the wastewater to be generated.

7. Plan for management and disposal of waste streams to be generated from spillage, leakages etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.

8. Details of the ETP including size of each unit, retention time, other technical parameters etc. and its adequacy and efficacy report.

9. 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.

10. Undertaking stating that a separate electric meter will be provided for the ETP & MEE.

11. Treated effluent management plan during monsoon season when utilization of treated effluent for gardening & plantation purpose is not feasible. Detailed study report considering Percolation rate of the land available for gardening & plantation. Ensure that land is suitable for plantation & gardening.

12. Installation of weather station to determine wind direction & to maintain wind rose.

13. Soil analysis report of proposed project location at different places covering response level of contaminants including heavy metals. Ensure that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

14. Monitoring program during Post-monsoon season after TSDF becomes operational especially fluctuation of u/g water table with reference to leachate well/wells, air vent monitoring after closure of the cell, details of deposition of Escrow fund.

15. 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. The name of the Consultants / Consultancy firm along with their complete details shall be incorporated in EIA report.

16. Summary & Conclusion as per the generic structure given in Appendix III A of the EIA Notification 2006.

- PP has submitted point wise reply of above mentioned details vide their letter dated 23/10/2015.

- During the SEAC meeting dated 27/11/2015, Project proponent presented that there is no National park or Wild life sanctuary within the 10 km radius from the proposed project site. Committee noted that there are reported literatures of breeding of Sarus bird and Pariage lake, which is Wetland of National Conservation significance. After elaborate discussion, it was decided to seek the opinion / NOC from

the Forests Department with respect to impacts of the proposed Common TSDF site on ecological sensitive areas. After deliberation, It was unanimously decided to consider the project for appraisal only after getting Opinion / NOC for proposed project from the concern authority.

- This office has received a letter from the Office of the Principal Chief Conservator of Forests (PCCF), Wildlife and Chief Wildlife Warden, Aranya Bhavan, B – Wing, 1st floor, Sector 10-A, Gandhinagar on 28/06/2016.

- Project proponent was called for further appraisal on 13/07/2016.

- During the SEAC meeting dated 13/07/2016, project proponent remained present. Committee observed that PP has submitted point wise reply of queries raised during SEAC meeting dated 30/07/2015 vide their letter on 16/10/2015. Committee found this reply in line with the queries. PP has submitted Revised EIA report with revised Form-1 & revised PFR, which was considered by the Committee. A Letter received from the office of the PCCF was discussed at length. As per the said letter the Annexure – IV of the EIA report which is regarding the flora/fauna study report. In the said letter it was mentioned that "The short comings in the EIA report, though of serious nature, it does not materially affect the main issue of impact upon Sarus Crane. It is felt that revised prefeasibility report at Annexure VII, which contains design detail of the land fill, and various aspects and details provided in the EIA, is felt adequate as far as likely impacts of the project upon Sarus". Further it was mentioned that Matar Taluka supports highest density and number of Sarus Cranes in the state. Buffer zone of the project area considered as moderately affected area, which calls for monitoring the post project impacts, and mitigation of impacts, if any. As no immediate impacts are foreseen, with a view to monitor as well as for improvement / betterment of the species, i.e. Sarus, if following conditions / activities are incorporated, it will be benefit Sarus population. (1) As a part of the environmental monitoring, the report includes continuous environmental awareness programmes in surrounding villages. Such awareness programme should also include Sarus conservation awareness amongst villagers. (2) The post project environmental monitoring programme should also include monitoring of Sarus population in the region through university or reputed NGO. (3) They will carry out activities related to the preservation of the environment and to the sustainable development as mentioned in the EIA report. Such activity should include support for Sarus and wetland conservation within the zone of influence. Committee was of view that project proponent should submit compliance of the letter received from the Office of the Principal Chief Conservator of Forests (PCCF), Wildlife and Chief Wildlife Warden, Gujarat. After deliberation, Committee unanimously decided to consider the proposal after satisfactory submission of compliance report for letter received from the Office of the Principal Chief Conservator of Forests (PCCF), Wildlife and Chief Wildlife Warden, Gujarat.

Project / Activity Details:

- M/s: Cluster Enviro Pvt. Ltd. has proposed to establish a common TSDF (Treatment Storage and Disposal Facility) site in two phases. They will develop site for 6 ha. (Cap.: 540000 MT) in each phases. Total capacity of the site will be 1080000 MT. Life of each cell of landfill will be approximately 5 years to accommodate 540000 Tons of waste. The proposed site is located at 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.

- The total land area of the proposed site is 124150 sq. meter. Total greenbelt proposed is 30555 sq. m.
- Cluster Enviro Pvt. Ltd. will install the landfill site in two phases. The Secured Landfill shall be spread over approximately 12 ha of Land having a total Landfill capacity of 10,80,000 Tons of Landfill Waste. The Landfill will be developed in two Phases. In first phase they will develop the site for 6.0 ha (Cap: 5,40,000 MT) and in second phase they will develop the site for 6.0 ha (Cap: 5,40,000 MT). So, the total capacity of site will be 10,80,000 MT.
- Proposed secured land fill is designed to handle waste at the rate of 108000 Tons/Annum. Proposed facility will have two cell landfill. Life of each cell of landfill will be approximately 5 years to accommodate 540000 Tons of waste.
- The landfill will be provided coverage system as per CPCB Guideline and will be maintained for 30 years after closure.
- For the establishment of proposed project PP has evaluated proposed site as per the "Rejection or Knock Out Criteria" given in guideline of Central Pollution Control Board (CPCB) for site selection for Common Hazardous Waste Management Facility.
- Proposed land fill project will be designed as per the Ministry of Environment Forest (MoEF) and Central Pollution Control Board (CPCB) Guidelines.
- Expected project cost is Rs. 23.50 Cr. Total capital cost for environmental pollution control measures will be Rs. 2.5 Crores and recurring cost per annum will be @ Rs. 1 Crore.
- Nearest human habitation of village Nagrama is @ 0.8 km from the project site.
- It is reported that there are no ecologically sensitive areas like national parks, sanctuaries, reserve forest etc. are exists within 10 km radius of the proposed site.
- There is one wetland "Pariej Wetland falls at distance of 8.5 km from the project boundary & it is not a protected wetland area but it is Wetlands of national conservation significance.
- Nearest State Highway (Kheda-Khambhat Road) is at 2.2 km and nearest National Highway (NH-8) is at 12 km from the project site.
- Nearest water body is Nagrama Pond which is located at a distance 0.9 km.
- The site is evaluated as per the site evaluation criteria of CPCB.
- Ground water table is @ 11 m BGL.
- Water requirement will be 10 KL/day for construction phase and 154.5 KL/day for operation phase. Source of the water will be ground water.
- Industrial Waste water (30 KL/day) generated from the activities (2.5 KL Laboratories, 0.5 KL water treatment DM, 1 KL Boiler, 5 KL Cooling, 6 KL Truck washing & 15 KL Leachate from TSDF) will be treated in proposed ETP comprises of primary effluent treatment plant followed by Multiple Effect Evaporator. Condensate (25 KL/day) will be reused.
- Domestic waste water (4 KL/day) will be disposed off into septic tank followed by soak pit system.
- Unit has proposed ETP (Cap. 30 KL/day) comprises of Primary treatment plants and double effect evaporator (Cap. 2000 Kg/hr)
- There will be no discharge of waste water outside premises.
- Hazardous waste suitable for landfill will be received, weighed, sampled and then sent inside TSDF cell for unloading. Compaction and leveling will be carried out regularly. Leachate collection system will be provided. Vents will be provided at suitable locations within the cell for venting of accumulated gas.

- The estimated power requirement for the proposed TSDF is 125 KW which will be sourced from Gujarat Electricity Board. One DG Sets of 125 KVA capacity will be kept for meeting emergency. HSD (40 Lit/Hr) will be used as fuel for DG set.
- Hazardous wastes to be generated from their own activities are as follows:
- ETP sludge (5 MT/Month) and Salts from MEE (15 MT/Month) will be disposed in the secured landfill (TSDF) site.
- Used oil (0.5 KL/Year) will be sold only to the registered recyclers.
- Capacity of the Secured Landfill facility for Hazardous waste will be 10.80 Lac MT. Total no. of cells will be two (02).
- The proposed project will provide direct/indirect employment to 26 persons.
- Operational methodology of the proposed TSDF will be as follows :

1) Waste Acceptance Criteria

- ✓ The generator should have Authorization for disposal as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and its amendment thereof.
- ✓ At the time of taking membership, the company will carry out comprehensive analysis of solid waste and the same sample will be preserved for further physical verification.
- ✓ As the dumper/truck/vehicle arrive to the TSDF site, it will be weighed and samples will be taken from 3 different locations and composite sample will be made and analyzed for main parameters of quick test.
- ✓ If the sample passes finger print analysis, then only, the vehicle will be allowed to go to the landfill area and dispose the wastes.
- ✓ In case the sample fails in finger print analysis, then investigation will be done and the waste will be given required treatment before disposal to the landfill.

2) Manifest System

- ✓ In order to track the generation and movement of Hazardous waste from the source of generation to secured landfill facility, a reporting and record keeping system will be maintained along with manifest system. Manifest system will be as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and amendment made thereof and GPCB online manifest system for waste management.

3) Transportation of Hazardous Solid Waste from Generation Site to TSDF

- ✓ As per guidelines of CPCB.
- ✓ Transportation of hazardous waste will be carried out through transporters with dedicated vehicles having TREM Card and manifest system as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and amendment made thereof.
- ✓ Containers will be closed from all sides and covered from top in order to avoid littering of the waste on the road.
- ✓ Vehicles for the transportation of hazardous waste with hydraulic unloading mechanism will be used.
- ✓ Regular training to drivers will be given to handle emergency situation during transportation of waste.
- ✓ The inner surface of each Vehicle (trolley/truck) will be coated with epoxy resin and in order to

avoid spillage during transportation a free board of about 15 cm will be maintained between the surface of the waste and the top edge of the trolley's/truck's sidewalls.

4) Weighing and Sampling of Waste

- ✓ As the vehicle enters the premises of TSDF site, weighing will be done and samples will be drawn from three different locations and a composite sample will be made.
- ✓ Once a waste is received at the site, a sample of waste will be collected, at the sampling bay/temporary storage facility and will undergo laboratory analysis based on which its pathway of treatment/ disposal will be determined.
- ✓ Once the quick tests will over, vehicle will be allowed to enter the premises and will be sent to dumping site or temporary hazardous waste storage area.
- ✓ If any waste consignment will not meeting the acceptance criteria, it will be either returned to the waste generator or taken for appropriate treatment (like neutralization / stabilization etc).
- ✓ The frequency of weighing machine calibration will be as per rules and regulation.

5) Operation at TSDF disposal area

- ✓ Once the waste consignment meets the acceptance criteria, then the vehicle will be allowed to go to the operational area of the landfill.
- ✓ The waste will be unloaded from the vehicle/ hook loader at the operational area. Manual handling will be avoided.
- ✓ The landfill will be staged in cells so that the minimum practical area of waste is exposed and maximum practical area of waste has the final cap in place i.e., progressive filling and capping of the landfill ensuring minimization of infiltration of wastes.
- ✓ Compaction of hazardous waste will be carried out as per Central Pollution Control Board (CPCB) specification.
- ✓ The Weigh Bridge at the main entrance will record all movements and weights and receive waste tracking receipt as required by the waste manifest system.
- ✓ The standpipe forming part of the leachate collection system will be checked regularly for the presence of leachate. Once leachate is detected it will be regularly pumped out and transferred to the leachate treatment facility on-site. The level of leachate in the standpipe will not be allowed to rise above the level of the leachate collection system.

6) Ground Water Sampling and Analysis

- ✓ Provide monitoring wells (Piezometric) at the site for ground water monitoring. (In upstream and at the downstream of Landfill site).

7) Leachate Management System

- ✓ Landfill site will have leachate collection wells.
- ✓ HDPE perforated pipe will be used for efficient conveyance of leachate of secured landfill site. Any leachate generated in the cell will be pumped into effluent treatment plant with the help of submersible pump.

8) Gaseous Emission Management

- ✓ Unit will provide air vents at the closed portion of the land fill.
- ✓ They will carry out regular monitoring of work zone area and vents during active and post

closure period as per the prevailing guidelines.

9) Closure and post closure maintenance details for closed cells including vegetative stabilization:

- ✓ Coverage system will be as per CPCB criteria for entire landfill.
- ✓ The closed portion will be given proper landscape.
- ✓ No disposal operation will be performed during monsoon.
- ✓ The main operational site will be kept cover by HDPE sheets with separate rain water collection system during monsoon and it will be ensured that no water comes in contact with the waste.
- ✓ An access road will be provided on the landfill cover to enable easy approach for routine inspection of the landfill cover.

10) Surface Water Drainage System

- ✓ The storm water drainage system will be provided at site.
- ✓ The surface water generated during monsoon season will be collected through storm water system and after filtration, water will be recharged using percolation pit.
- ✓ Own laboratory equipped with required analytical facilities will be provided. Basic analytical facility for finger-printing of wastes is proposed to be done on daily basis. Hazardous waste to be transported from member industries will be first analyzed and tested for acceptance criteria as per CPCB guidelines. Once the quick tests are over, vehicle will be allowed to enter the premises and will be sent to site or temporary hazardous waste storage area. If any waste consignment is not meeting the acceptance criteria, it will be either returned to the waste generator or taken for appropriate treatment (like neutralization / stabilization etc). Hazardous waste storage area having pucca bottom and roof cover will be provided. Only during monsoon season, waste will be stored in temporary hazardous waste storage area as per requirements. Design of the proposed TSDF site will be as per guidelines published by the Ministry of Environment Forest & Climate Change (MoEF&CC) and Central Pollution Control Board (CPCB) for designing of the TSDF site.

- Design details of the proposed secured landfill is given in table below:

Sr no.	Particulars	Details
1	Area of Land	124150 sq.m.
2	Size	60,000 sq. m.
3	Total Capacity	10.80 Lacs MT
4	Total no. of Cell	02 (Two)
5	Side Slope	Inside(1V:2H), Outside(1V:2.5H)

6	Bottom Liner	First from (TOP)	:	450 mm thick clay layer.
		Second Layer	:	300 mm thick sand layer.
		Third Layer	:	1.5 mm thick HDPE geomembrane lining.
		Fourth Layer	:	300 mm thick sand layer (Leachate collection layer).
		Fifth Layer	:	1.5 mm thick HDPE geomembrane lining.
		Sixth Layer	:	450 mm thick clay layer.
	Top Liner	First from (TOP)	:	450 mm thick vegetative layer to support natural plant growth and to minimize erosion.
		Second Layer		150 mm thick drainage layer.
		Third Layer	:	1.5 mm thick HDPE geomembrane lining.
		Fourth Layer	:	600 mm of clay layer or amended soil with permeability co efficient less than 1×10^{-7} cm/sec.
	Side Liner System	First Layer	:	450 mm thick clay layer.
		Second Layer	:	1.5 mm thick HDPE geomembrane lining.
		Third Layer	:	450 mm thick clay layer having permeability 1×10^{-7} cm/sec.
		Fourth Layer	:	1.5 mm thick HDPE geomembrane lining.
		Fifth Layer	:	450 mm thick clay layer.
7	No. of Leachate collection wells	4 (Four) :Two Primary and Two Secondary		
8	Leachate drainage slope	Inner side Slopes of Embankment :- 1.3 (V:H) Outer side Slopes of Embankment :- 1.2 (V:H)		
9	Size of the leachate collection sump	3 m dia, 1 m liquid depth		

- Proposed measures for control of odour from TSDF include adoption of odor control practices, Odour suppression chemicals like foaming around a landfill site to control the odour, use of covering the waste with soil periodically to reduce odors from newly deposited wastes and acceptance of odour-free materials for land filling. In case of odorous material, treatment to be done at the industry level to resolve the problem.
- It is proposed to spend Rs. 47 Lacs per annum for the social welfare/upliftment of the nearby Villagers.
- The samples of ambient air, ground and surface water and soil are collected and analyzed as per the standard methods for establishing the baseline data and to determine the impact of proposed activity on the same.
- The study period considered for EIA was October 2014 to December 2014 for 10 km radial distance around the project site. The predominant wind directions are NE, NNE, ENE and E implying that winds come from these directions for most of the time during the period.
- Ambient Air Quality Monitoring (AAQM) was carried out at 6 locations for parameters such as Particulate Matter (PM10 and PM2.5), Sulphur Dioxide (SO2), Oxides of Nitrogen (NOx), Carbon Dioxide (CO2), Carbon monoxide (CO), Methane and Volatile organic matter (VOC).It is observed that PM10, PM2.5, SO2, NOx, CO2, CO, Methane and VOC concentrations were found well below the stipulated standards of CPCB.
- Impacts on ambient air during operation phase would be due to emissions from the stacks attached to boiler of MEE. Emissions from the sources were analyzed for their impacts on the Ground Level Concentration (GLC) for various distances using the dispersion modeling guidelines given by the Central Pollution Control Board, New Delhi and the Industrial Source Complex Short Term Model (ISCST3) of the United States Environment Protection Agency (USEPA). It is predicted that the maximum contribution in GLCs, with units operating at full capacity, is 0.843 µg/m3, 0.349 µg/m3 and 0.237 µg/m3 for SPM, SO2 and NOx respectively 1.41 km away from Project Site (Source) in SE direction. With this marginal contribution due to the proposal of the project, the levels of PM, SO2, NOx, will remain well below the 24-hourly ambient air quality standards for SO2 & NOx (80 µg/m3), PM10 (100 µg/m3), PM2.5 (60 µg/m3) prescribed by CPCB.
- To ascertain the baseline status of existing surface water and ground water bodies. Samples were collected during the study period. Groundwater and surface water samples from different villages in the project area were collected and analyzed. Heavy metals concentrations were found within permissible limits. As per the preliminary studies ground water table at project site was observed at about 11 m depth below EGL.
- They will construct four monitoring wells (piezometric) around the TSDF i.e. one on up gradient of the groundwater flow and other three on the down gradient side of the ground water flow atleast up to first layer aquifer. They will monitor water level as well as quality of water to ascertain any contamination by leaching of hazardous waste. Frequency of monitoring will be once in a quarter till designed life span of the TSDF or as per consent of GPCB, during active and post closure period. Regarding air vent monitoring, they will monitor air vent which will be vent out from capped of SLF, once in a month till designed life span of the TSDF or as per consent of GPCB, during active and post closure period. Parameters of vent will be Total VOCs and H2S or as per consent of GPCB. they will earmark respective calculated amount for maintenance and monitoring of post closure TSDF site. Earmarked amount will be separately deposited as reserve fund for above purpose.

- During decomposition of hazardous waste, VOC and H2S may be generated and hence preventive measures will be taken by installing of gas control facility, which collects and extracts gas from within and from the top of the landfill. Unit has also included Risk Assessment, Disaster Management Plan, Occupational Health and Safety program for the project in EIA report.

Observations/Discussions:

During the meeting, project proponent remained present. Committee observed that PP has submitted point wise reply of queries raised during SEAC meeting dated 30/07/2015 vide their letter on 16/10/2015. Committee found this reply in line with the queries. PP has submitted Revised EIA report with revised Form-1 & revised PFR, which was considered by the Committee. A Letter received from the office of the PCCF was discussed at length. As per the said letter the Annexure – IV of the EIA report which is regarding the flora/fauna study report. In the said letter it was mentioned that "The short comings in the EIA report, though of serious nature, it does not materially affect the main issue of impact upon Sarus Crane. It is felt that revised prefeasibility report at Annexure VII, which contains design detail of the land fill, and various aspects and details provided in the EIA, is felt adequate as far as likely impacts of the project upon Sarus". Further it was mentioned that Matar Taluka supports highest density and number of Sarus Cranes in the state. Buffer zone of the project area considered as moderately affected area, which calls for monitoring the post project impacts, and mitigation of impacts, if any. As no immediate impacts are foreseen, with a view to monitor as well as for improvement / betterment of the species, i.e. Sarus, if following conditions / activities are incorporated, it will be benefit Sarus population. (1) As a part of the environmental monitoring, the report includes continuous environmental awareness programmes in surrounding villages. Such awareness programme should also include Sarus conservation awareness amongst villagers. (2) The post project environmental monitoring programme should also include monitoring of Sarus population in the region through university or reputed NGO. (3) They will carry out activities related to the preservation of the environment and to the sustainable development as mentioned in the EIA report. Such activity should include support for Sarus and wetland conservation within the zone of influence. Committee was of view that project proponent should submit compliance of the letter received from the Office of the Principal Chief Conservator of Forests (PCCF), Wildlife and Chief Wildlife Warden, Gujarat.

23	SIA/GJ/IND2/10748/2016	**M/s: Matrix Pharma Chem,** Plot no.90/1& 91/1, GIDC Estate, Odhav, Dist.: Ahemdabad	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Matrix Pharma Chem (herein after Project Proponent – PP) submitted Application vide their online proposal no. SIA/GJ/IND2/10748/2016 dated 16/03/2016.
- Project proponent was called for presentation in the SEAC meeting dated 27/04/2016.
- During the meeting, it was presented that the project site is located within the GIDC estate of Odhav, which falls within the Ahmedabad city limit. On asking, project proponent could not reply about the exact distance of proposed site from the Critically Polluted area of Vatva-Narol. Committee noted that some part of the GIDC-Odhav is located within the 5 km radius from the boundary of the Vatva GIDC. Considering the applicability of the General Condition of EIA Notification 2006 as amended time to time, the project

proponent was asked to submit the exact aerial distance of the proposed project site from the nearest boundary of the Vatva-Narol CEPI area along with the satellite image reflecting the same. Committee also observed that the existing unit was not in compliance as they have been issued 3 times closure notice from GPCB for violation under the Water act. After detailed discussion, It was decided to consider the project only after the satisfactory submission of the following: (1) The exact aerial distance of the proposed project site from the nearest boundary of the Vatva-Narol CEPI area along with the satellite image reflecting the same. (2) Aerial distance of nearest residential area from the boundary of the project site along with satellite image. (3) Details of CETP- OEPL (i) Total capacity of the CETP (ii) Total booked capacity and actual load received at present (Qualitative and Quantitative) (iii) CETP performance including Last 1 year analysis reports of GPCB for Inlet and outlet of CETP (iv) Recommendations and suggestions of the last two Environment Audit reports of CETP- OEPL-Odhav and its compliance report. (v) Latest copy of membership certificate from CETP authority for additional effluent load. (4) 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.

- PP submitted reply vide their letter on 04/06/2016.

Project Status: Expansion

Project / Activity Details:

This unit is engaged in manufacturing of Vat Indigo Blue and now proposes for expansion of the project as tabulated below:

Sr. no.	Name of proposed product	Quantity MT/Month
Existing Product		
	Vat Indigo Blue	1
Proposed Product		
1	Indigo Carmine	3
2	Ponceau 4R	5
3	Tartrazine	14
4	Sunset Yellow	14
5	Carmoisine	6
6	Brillaint Blue FCF	5
7	Acid Blue 25	5
8	Acid Blue 40	3
9	Acid Blue 324	3
10	Acid Green 25	3
11	Acid Violet 43	3
	TOTAL	64 MT/M

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 1249 sq. m & unit has proposed 80 sq. m area in addition to existing 20 sq. m area for the green belt development/tree plantation. Estimated cost of proposed expansion is Rs. 0.40 Crores. Fresh water

requirement after proposed expansion will be increased from 7.1 KL/day to 19.1 KL/day (3 KL Domestic & 16.1 KL Industrial) which will be supplied by the GIDC. Wastewater generation after the expansion will be increased from 6.5 KL/day to 16.15 KL/day [13.85 KL/day industrial + 2.3 KL/day domestic]. Domestic waste water (2.3 KL/day) will be disposed off into septic tank/soak pit system. Agro waste (6 MT/Month) or Natural gas (500 SCM/Month) will be used as fuel for two Boilers (0.3 TPH existing and 0.5 TPH proposed). Unit has proposed MDC as APCM for Boilers. No process gaseous emission is envisaged. ETP waste 1.01 (MT/Month) 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/Discussion:

During meeting, Committee reviewed point wise reply submitted vide their letter dated 04/06/2016. As per the submission, the exact aerial distance of the project site from the nearest boundary of the Vatva-Narol CEPI area is 5.239 km. Aerial distance of nearest residential area from the boundary of the project site is 178 m. PP has submitted CETP details viz. analysis reports of treated waste water, observations & suggestions of last audit report and membership certificate of CETP. With reference to the processing of application for obtaining Environmental clearance by PP, Committee observed that proposed site is located in industrial estate which is already surrounded by habitats/residential houses, hence, many instances have come to the notices regarding air pollution complaints. Committee felt to visit location of the proposed site so as to evaluate possible impact of upcoming unit. Committee unanimously decided to consider the case after site visit of the aforementioned proposed project.

24	SIA/GJ/IND2/16037/2015	M/s: Universal Organics, Plot no. 124/9, GIDC-Nandesari, Dist.: Vadodara	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- M/s: Universal Organics (herein after Project Proponent – PP) has submitted an application vide their online proposal no. SIA/GJ/IND2/16037/2015 dated 08/06/2016 along with final EIA report regarding grant of Environmental Clearance.
- EIA Report is prepared by M/s: Envisafe Environment Consultants, Ahmedabad, Ahmedabad based on the ToR issued to the project proponent in the SEAC meeting dated 19/08/2015.

Project / Activity Details:

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

Sr. no.	Name of the Products	Capacity MT/Month
1	4-Methyl Cyclohexanone	6.00
2	Trans-4-Methyl Cyclohexyl Amine HCL	3.00
3	Trans-4-Methyl Cyclohexyl Isocynate	1.50
4	Glimepiride	0.50
5	Benzothonium Chloride	0.50

6	2,5-Dimethyl-2, 5-di (tert-butylperoxy) haxane	5.00
7	Meta chloro perbenzoic acid	8.00
	Total	**24.50**
By-Products		
1	Caustic Lye	**18**
2	Dilute Hydrochloric acid	**6**

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area 1500.53 sq. m. Unit has proposed 350 sq. m area for the green belt development/ Tree plantation. Expected project cost is Rs. 3.80 Crores. The capital cost of the project is INR. 3.8 Crores and the capital cost for environmental protection measures is proposed as INR. 40 Lacs. The annual recurring cost towards the environmental protection measures is proposed as INR. 19.2 Lacs. Total water consumption for proposed project will be 58 KL/day (2 KL for Domestic, 2.5 KL for Gardening and 53.5 KL for Industrial use) which will be sourced from GIDC water supply system. Total waste water generation will be 28.7 KL/Day. Domestic waste water (1.6 KL) will be discharged in to soak pit through septic tank and Industrial waste water will be segregated as (1) High COD/TDS stream and Phenolic effluent (6.8 KL/day) from process, (2) Low COD/TDS stream (3.2 KL/day) from process and (3) other stream (19 KL/day) from WTP, Cooling, Washing & Boiler section. High COD/TDS concentrated effluent and Phenolic effluent generated from process 6.8 KL/day will be sent to stripper followed by MEE. MEE condensate @ 6.5 KL/day along with low COD/TDS stream @ 3.2 KL/day and other streams like from boiler @ 4.5 KL/day, cooling @ 0.5 KL/day, washing @ 4.0 KL/day and WTP Reject @ 10.0 KLD will be sent to ETP comprises of primary, secondary and tertiary treatment units for further treatment. Treated effluent conforming to the CETP inlet norms prescribed by GPCB will be sent to the CETP-Nandesari further treatment and final disposal to estuary of River Mahi. It is proposed to install two Steam Boilers (0.5 TPH & 5 THP) and one D.G. Sets (20 KVA). Bio fuel/ Agricultural waste & coal (6.5 TPD or 165 MT/Month) will be used as fuel for Boilers. Diesel (1.25 Lit./hr) will be used as fuel for stand-by D.G.Set. Multi Cyclone separator is proposed as APCM for flue gas emission control and Water scrubber followed by alkali (NaOH) scrubber will be installed for process gas control. The Hazardous waste to be generated from the manufacturing activity will be ETP Sludge (20 MT/Annum), Inorganic waste (48 MT/Annum), Distillation Residue (73 MT/Annum), Spent Catalyst (0.5 MT/Annum), Spent Solvent (1500 KL/Annum), Discarded Containers/Bags (3 MT/Annum) and Spent oil/Used oil (0.5 KL/Annum). ETP waste, Inorganic waste and spent catalyst will be disposed off at the nearby common TSDF. Spent solvent will be recovered in-house and reused. Distillation residue will be sent to CHWIF. 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. Caustic Lye (48 %) to be generated from the manufacturing process of Trans-4-Methyl Cyclohexyl Amine HCl will be used for captive use in manufacturing of Inorganic Products & utilization for neutralization in ETP. Hydrochloric acid (30%) to be generated from APCE of manufacturing process of Trans-4-Methyl Cyclohexyl Isocynate will be used for captive use in manufacturing of Inorganic Products.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. EIA report reveals that baseline environmental study was carried out during the month of November 2015 to January 2016 to determine the prevailing status of ambient air, land use, noise level topography, meteorology, ecology & socioeconomic

layout. Baseline ambient air quality was measured at 5 locations. The maximum concentrations of PM2.5, PM10, SO2, NOx and NH3 at each ambient air monitoring locations were compared with National Ambient Air Quality Standards (NAAQS) for industrial, residential, rural and other areas. All the parameters are well within the NAAQS except for PM2.5 and PM10. PM10 concentration was found higher than NAAQS near Project site and village Karadiya since both locations are surrounded by industrial area and heavy traffic load during peak hours was observed. PM2.5 concentration was found higher than NAAQS near Project site since, it is located in industrial area and heavy traffic load during peak hours was observed. HCl, NH3 & VOC (as Isobutylene) concentration were below detectable limit (BDL) at all locations. Software modeling is carried out for predicting the Ground Level Concentration [GLC] of SPM, SO2, NOx. The GLC values show negligible increase due to the projected emission from the proposed project. The maximum 24-hourly average ground level concentration for pollutant due to proposed project calculated using mathematical model (ISCST3) for PM10, SO2, NO2, and NH3 is 01.276 µg/m3, 1.159 µg/m3, and 0.860 µg/m3 respectively which is very negligible even for the worst case scenario. Moreover, this will occur at a distance of only 250 meter from the source, which falls within the GIDC industrial estate only where there is no permanent habitat exists. Risk assessment along with the onsite emergency plan has been submitted. During the meeting, Committee noted that PP has incorporated Inorganic products which are not covered in the ambit of EIA Notification. However, PP has covered cumulative impacts and its mitigation measures in the EIA report. Committee also observed that manufacturing process of Inorganic products is not covered in the EIA report and there are discrepancies regarding water balance, fuel consumption etc. due to addition of In-organic products. Committee asked to consider Hydrochloric acid (30 %) generated from APCM of manufacturing process of Trans-4-Methyl Cyclohexyl Isocynate as Hazardous waste as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, which was agreed to by PP. While discussing about the generation of Phosgene and its control system, PP informed that they will remove the product namely Trans-4-Methyl Cyclohexyl Isocynate from which Phosgene is generated. Committee asked to submit revised EIA report along with revised Form-1 & PFR considering all relevant changes. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

1. Give technical justification regarding generation of salt (0.3 KL/day) from MEE concentrate. Give physical status of the MEE salt.
2. Complete management of Caustic Lye (48 %) and Hydrochloric acid (30%) to be generated from process.
3. Management of Hazardous waste as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time
4. Revised Form-1, PFR & Revised EIA report regarding discrepancy in water balance, Fuel consumption etc. due to addition of In-organic products and due to removal of product namely Trans-4-Methyl Cyclohexyl Isocynate.
5. Proposal for adequate APCM for 5 TPH steam Boiler. Give separate fuel consumption in MT/day & MT/hr for 5 TPH Boiler.

25	SIA/GJ/IND2/4819/2014	**M/s.: Swastik Laminates** , S. no.. 203/15, B/H. Shaktiman Rotawetar, NH-8 b, Vill. Bhunava, Ta. Gondal, Dist. Rajkot	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- M/s: **Swastik Laminates** (herein after Project Proponent – PP) has submitted application online proposal no. SIA/GJ/IND2/4819/2014 on 18/12/2015 along with additional details sought regarding grant of Environmental Clearance.
- EMP report & Risk assessment Report is prepared by M/s: Envisafe Environment Consultants, Ahmedabad based on the additional details sought in the SEAC meeting dated 10/03/2015.
- 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 M^3/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.
- Project proponent presented that water requirement is 17.5 KL/day, Fuel requirement is 6 MT/day (<25 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.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project.

Project / Activity Details:

This is a new unit proposes the manufacturing of following items.

Sr. no.	Name of Product	Quantity (MT/Month)
1	Phenol Formaldehyde Resin	300 MT/Month
2	Melamine Formaldehyde Resin	
3	Phenol Urea Formaldehyde Resin	
4	Laminated Sheets	400 MT/Month (100000 no.s/Month)

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.
Total plot area is 8966.24 sq. m. Unit has proposed 1700 sq. m area for the green belt development/ Tree plantation. Expected project cost is Rs.9.04 Crores. Total water consumption for proposed project will be 11.5 KL/D (2.5 KL for Domestic & 9 KL/day Industrial) which will be sourced from Bore well. Industrial waste water generation will be 3.2 KL/day, which will be treated in proposed Primary treatment plant including Photo Fenton reactor and treated waste water will be used for gardening. Industrial effluent from process (2.5 KL/day) will be given photo phenton treatment for degradation of phenolic compound. Further, treated effluent from process will be sent to thermic fluid based forced evaporator along with other waste streams like boiler & cooling where it will be completely evaporated. Composite effluent 3.2 KL/day including Boiler-Cooling blow down will be subjected to TFH based evaporator. Unit has proposed 2 KL/day of RO reject of raw water RO system will be reused for green belt development along with 6 KL/day of fresh water. Domestic waste water (2 KL/day) will be disposed off into soak pit system. Flue gas generation will be from Steam Boiler (3 TPH), one TFH (12 Lac Kcal/hr) and one D.G. set (125 KVA). Bio-fuel/Agro waste (150 MT/Month or 6 MT/day) will be used as a fuel for Boiler (3 TPH) & TFH (12 Lac Kcal/hr). Unit has proposed separate Cyclone Separator

followed by Bag filter as APCM. Diesel to the tune of 7 Lit./hr will be used as fuel for stand-by D.G. set (125 KVA). Unit has proposed separate Multi Cyclone Separator for Boiler & TFH. No process gas emission is envisaged. ETP waste (5 MT/Annum) will be disposed off at the Common TSDF site. Process waste (Waste residue) will be disposed off at the CHWIF. Discarded barrels / containers / bags / liners (10 MT/Annum) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (60 Lit./Annum) will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee asked to not use lignite as a fuel, which was agreed to by PP. Committee observed that PP has proposed to reuse treated waste water for gardening /plantation. Committee asked to submit the revised proposal for waste water management including stage wise characteristics of waste water. After detailed deliberations the Committee sought following additional information for further consideration of the proposal:

1. Complete water balance diagram including reuse of treated waste water into process instead of gardening-plantation, stage wise characteristics of waste water during treatment process.
2. Quantity of off specification / discarded Resin to be generated in MT/Annum.

The additional information received from the project proponents M/s: Rushil Décor Ltd., for setting up of expansion in manufacturing of Synthetic Organic Chemicals at Plot no. 607,608, GIDC-Mansa, Ta.: Mansa, Dist.: Gandhinagar, which was sought during SEAC meeting dated 13/04/2016 for further consideration of the proposal. The said submission by the project proponent was considered by the committee. Committee noted that in the SEAC meeting dated 13/04/2016, PP was agreed to use only Briquettes of Bio Coal or Agro waste as a fuel and in no case coal/lignite shall be used as a fuel. However, in the reply letter dated 04/06/2016, PP stated that they have replaced the steam boiler of fluidized bed type Boiler with solid fuel to meet the additional steam requirement. They are using imported coal & Indian coal/Lignite as a fuel for Boiler. The additional steam requirement was for increased laminated sheet manufacturing from 70 thousands to two lacs was planned and installed at site before applying the EC. They do not required additional heat for proposed expansion of resin products except for the heat required for the effluent evaporation in thermal evaporation system. Also reply regarding justification of reuse of 5.96 KL/day waste water generated from PF resin into UF resin and reply regarding adequacy & efficacy report for waste water treatment was not convinced. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

1. Technical justification of reuse of 5.96 KL/day effluent generated from PF resin into UF resin. Give characteristics of effluent.
2. Details of the ETP including size of each unit, retention time, other technical parameters etc. and its adequacy and efficacy report.
3. Copy of CTE and CC&A for increased capacity of laminated sheets and compliance thereof.
4. Requirement of additional heat for proposed expansion and fuel consumption thereof.
5. Copies of analysis reports of the water samples & Air samples collected by GPCB (Last 3 years). Copies of instructions issued by GPCB in last 3 years and point wise compliance thereof.
6. Revised Form-1, PFR if any change in proposal.

The following project proponent did not remain present during the meeting. 1. Saransh Ambience (Chanchal Infrastructure Ltd.), F.P.No.41, Village: Vasna, Ahmedabad. It was decided to call them in one of the upcoming meetings of the SEAC
The following project proponent has requested to withdraw the application through their email dated 12/07/2016. 1. Vishal Developers S.No.186/1/1+186/1/2+186/2/1+232/3+233/1/P+233/2, Kalana, Sanand, Ahmedabad. It was decided to consider the project in one of the upcoming meetings of SEAC.
The project of IT Park and Mall project at S.No.4,5,6,7,8,9,10, Village: Koba, District: Gandhinagar by M/s Aqualine Properties Private Limited was recommended by SEAC vide letter dated EIA-10-2007-167-E-1002 dated 26/04/2016 for validity extension of the Environmental Clearance dated 10/10/2008. The project was referred back by SEIAA based on the decision taken during the meeting of SEIAA dated 30/04/2016 to verify the details of application with respect to OM No.22-27/2015-IA-IIIdated 12th April, 2016 published by MoEFCC, New Delhi. The project was discussed during the meeting with reference to the above mentioned O.M of MoEFCC and it was found that the project proponent will have to apply afresh for getting Environmental Clearance.

Meeting ended with thanks to the Chair and the Members.

Minutes approved by:

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