

Minutes of the 304th meeting of the State Level Expert Appraisal Committee held on 07/09/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 304th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 7th September, 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. *Dr. V. K. Jain, Member, SEAC*
4. *Dr. Mayuri Pandya, Member, SEAC*
5. *Shri Hardik Shah, IAS, Secretary, SEAC.*

The agenda of TOR/Scoping/Category 8 (a) cases, Appraisal & EC amendment cases was taken up. Five (05) cases of TOR/Scoping/Category 8 (a), Six (06) cases of Appraisal and 1 EC amendment case 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.	Happy Benchmark Textile Hub	T.P.S.No.33 (Dumbhal), F.P.No.13, O.P.No.8/1, R.S.No.8/P, Moje Dumbhal, Choryasi, Surat.
The project proponent did not remain present during the meeting. It was decided to call them in one of upcoming meetings of SEAC.		
2.	International Textile Market	T.P.S.No.: 61(Parvat-Godadara), Block No. 38 + 46, O.P. No.: 38+46, F.P.No.: 38/B + 46, Moje: Parvat, Dist: Surat.
The project was earlier taken up in the meeting of SEAC held on 07/05/2016. During the meeting held on 07/05/2016, it was presented that the traffic survey was carried out on the adjacent roads and it shows that the existing road network is adequate enough to cater the existing as well as additional traffic load due to the proposed project. After detailed discussion, it was decided to appraise the project further only after submission of the following:		
<ol style="list-style-type: none"> 1. Copy of permission obtained from the concerned competent authority for the proposed FSI. 2. Details of mechanical parking to be provided (also including its operation, maintenance, energy consumption, appointing trained personnel's etc.) in the basement along with the feasibility of providing mechanical parking considering the basement height. 3. 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. 4. Details on provision to be made for minimum fire water storage based on the fire study. Certificate from the authorized fire consultant regarding provision flame proof electrical fitting and all the requisite fire facilities for the proposed project. 5. Type of activities to be carried out in the proposed commercial units. Undertaking stating that no any kind of manufacturing activity shall be allowed in the commercial units of the proposed project and they will not sold / allot any commercial unit for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics. 		

6. Details on ventilation, lighting arrangements and CO sensors to be provided in the basements. Details on provision to be made for natural lighting & ventilation in the proposed commercial units.
7. Detailed plan for loading / unloading of goods, movement plan, space designated for it, parking area designated for trucks/tempo etc.
8. Details on common amenities like drinking water facility, sanitary blocks, first aid facilities etc. to be provided at each floor.
9. Details on solar energy utilization for the proposed project and how much of the total energy requirement for the project will be compensated/reduced by the proposed energy conservation measures.
10. Details & plans showing floor wise emergency evacuation for the proposed project.

Project proponent submitted the above mentioned details along with the undertaking to this office on 30/07/2016.

Project proponent along with their expert / consultant attended the meeting for appraisal of the project. During the meeting, the project was appraised further based on the additional details submitted as well as facts presented before the committee.

It was presented that they have applied for built up area of 1,48,941.47 m² & FSI area of 1,05,829.20 m² (i.e FSI of 5.4) but now they want use FSI of 3.99 instead of 5.4 and hence built up area of the project will decrease to 1,18,423.98 m² & FSI area will be 78,391.92 m². Scope of the proposed commercial building will be 2 level basement + ground floor + 8 floors. Number of commercial units will be 1033 instead of 1602 nos. of commercial units as per the original proposal.

It was presented that they have applied to Urban Development & Urban Housing Department for the proposed FSI & the permission is awaited. Details of mechanical parking has been submitted and presented that both the level basements will be provided with height of 4.88 m. Details of the proposed Environment Management Plan including the Environment Management Cell and the budget allocation thereof has been submitted. A certificate from a fire consultant, also endorsed by the Fire & Emergency Services of SMC, has been submitted which shows that 200 KL capacity of static fire water storage tank and flame proof electrical fittings will be provided in the proposed project. 24 nos. of carbon cleaners, 5 nos. of air ducts, air pump (15 HP) & blower will be provided for ventilation in the basements. Plans showing places designated for loading / unloading of goods & emergency evacuation plans has been submitted. It was presented that drinking water facility, sanitary blocks & first aid facility will be provided on each floor. It is proposed to provide LED lights in common building areas.

Salient features of the project are as under:

Sr. No.	Particulars	Details
1.	Proposal is for	New Construction Project [SIA/GJ/NCP/52073/2016]
2.	Type of Project	Commercial
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	International Textile Market
5.	Name of Developer	ITM Infra
6.	Estimated	160 crore

	Project Cost (Rs. In Crores)																
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction activity started															
8.	Project Details	<ul style="list-style-type: none"> • Land / Plot Area (m²) : 19,598 • FSI area (m²): 78,391.92 • Total BUA (m²): 1,18,423.98 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>78,392.0</td> <td>78,391.92</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>----</td> <td>10,475.41</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>----</td> <td>1,959.80</td> </tr> <tr> <td>Max. building height (m)</td> <td>---</td> <td>45.0</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area (m ²)	78,392.0	78,391.92	Ground Coverage (m ²)	----	10,475.41	Common Plot Area (m ²)	----	1,959.80	Max. building height (m)	---	45.0
	Permissible	Proposed															
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Ground Coverage (m ²)	----	10,475.41															
Common Plot Area (m ²)	----	1,959.80															
Max. building height (m)	---	45.0															
9.	Building Details	<ul style="list-style-type: none"> • No. of Buildings: 1 • Scope of buildings/blocks: 2 level basement + ground floor + 8 floors • No. & size of Residential Units: -- • No. & type of Commercial Units: 1033 Shops • Details of amenities if any: - ---- 															
10.	No. of expected residents / users	3204															
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> • Water requirement (KL/day): 20.25 • Source of water: Local water tankers • Waste water generation quantity (KL/day): 10.53 • Mode of disposal: Into septic tank & soak pit. • Details of reuse of water, if any: 4 KL/day for curing 															
12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> • Total water requirement (KL/day): 189.18 • Fresh water requirement (KL/day): 79.08 • Source of water: Water supply from Surat Municipal Corporation (SMC). • Waste water generation quantity (KL/day): 160.0 • 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 only remaining quantity of treated sewage will be discharged into the drainage line of SMC. • In case of STP provision, capacity of STP: 200 KL/day. • STP Technology: MBBR • Purposes for treated sewage utilization: Flushing and Gardening • Quantity of treated water to be reused: 1. Gardening (KL/day): 8 2. Flushing (KL/day): 125 • Provision of dual plumbing system (Yes/No): Yes • Quantity and type (treated/untreated) of water to be discharged: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purpose within premises and only remaining quantity of treated 															

		sewage will be discharged into the drainage line of SMC • Mode of disposal: as above																																
13.	Status of water supply and drainage line	SMC drainage and water supply lines are available at site																																
14.	Solid waste Management	<p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>6,500</td> <td>6,500</td> <td>Greenbelt development</td> </tr> <tr> <td>Other excavated earth</td> <td>1,23,500</td> <td>65,000</td> <td>Internal roads and other paved area, back filling</td> </tr> <tr> <td>Construction debris</td> <td>450</td> <td>350</td> <td>Back filling and internal road development</td> </tr> <tr> <td>Steel scrap</td> <td>20</td> <td>---</td> <td>Sold to vendors</td> </tr> <tr> <td>Discarded packing materials</td> <td>15</td> <td>----</td> <td>Sold to vendors</td> </tr> </tbody> </table> <p>Remaining quantity of excavated earth and construction debris will be used for back filling for the other projects in the vicinity as well as road development outside the premises.</p> <p>Operation Phase:</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Dry & wet waste</td> <td>1,200</td> <td>Into separate bins to be provided to each individual unit.</td> <td>Bio degradable waste will be disposed into nearby bins and non biodegradable waste will be sold to vendors</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: Green bin for bio degradable waste & White bin for non-biodegradable waste. • Capacity and no. of community bins to be placed within premises: Total 3300 bins with 5 litre to 25 litre capacity will be provided. • Landfill site where waste will be ultimately disposed by local authority: At the nearest municipal solid waste dumping / landfill site of SMC . 		Generation (m ³)	Quantity to be reused (m ³)	Mode of Disposal / Reuse	Top Soil	6,500	6,500	Greenbelt development	Other excavated earth	1,23,500	65,000	Internal roads and other paved area, back filling	Construction debris	450	350	Back filling and internal road development	Steel scrap	20	---	Sold to vendors	Discarded packing materials	15	----	Sold to vendors	Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse	Dry & wet waste	1,200	Into separate bins to be provided to each individual unit.	Bio degradable waste will be disposed into nearby bins and non biodegradable waste will be sold to vendors
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Dry & wet waste	1,200	Into separate bins to be provided to each individual unit.	Bio degradable waste will be disposed into nearby bins and non biodegradable waste will be sold to vendors																															
15.	Parking Details	<ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 52,837.24 m² • Parking area requirement for Commercial units as per GDCR: 52,837.24 m² • Total number of CPS requirement for the project as per NBC: 1568 CPS • Number of CPS requirement for commercial units as per NBC: 1568 CPS 																																

		<ul style="list-style-type: none"> • Total Parking area provided (m²) & No. of CPS: Area –68,583.63 m² , CPS - 2179 • Parking area provided in basement (m²) & No. of CPS: Area – 31,808.94 m² , CPS - 994 • Parking area provided in hollow plinth (m²) & No. of CPS: CPS: Area – 1,165.75 m² , CPS - 42 • Parking area provided as open surface (m²) & No. of CPS: Area – 3,420.0 m² , CPS – 149 • Parking area provided as mechanical parking in basement (m²) & No. of CPS: Area – 31,808.94 m² , CPS - 994
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads: 45 m and 18 m • Number of Entry & Exit provided on approach road/s: 2 gates will be provided • Width of Entry & Exit provided on approach road/s: 6.0 m • Minimum width of open path all around the buildings for easy access of fire tender(excluding the width for the plantation): 6.0 m • Width of all internal roads: 6.0 m
17.	Details of Green Building measures proposed.	Maximum use of natural light through architectural design, use of energy efficient motor and pumps, maximum use of aerated blocks, use of LED & low voltage lighting, solar lighting in open and landscape areas, rooftop thermal insulation, ground water recharge through rain water harvesting, provision of STP & reuse of treated sewage for gardening & flushing within premises etc.
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply: Maximum demand: 8500 KVA Connected load:---- • Source: Dakshin Gujarat Vij Company Ltd • Energy saving measures: Maximum use of natural light through architectural design, use of energy efficient motor and pumps, maximum use of aerated blocks, use of LED & low voltage lighting, solar lighting in open and landscape areas, rooftop thermal insulation etc. • DG Sets: No. and capacity of the DG sets: 1 X 125 KVA Fuel & its quantity: HSD 25 litre/hr
19.	Fire and Life Safety Measures	<ul style="list-style-type: none"> • Fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system (to be installed in entire building), manually operated electric fire alarm system, automatic detection & alarm system, underground fire water storage tank of 200 KL, terrace tanks of 20 KL, provision of pump: electric & one diesel pump of capacity 2850 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm² at terrace level etc. • Name of the nearest fire station: Dumbhal Distance from the project site: About 1.2 Km Time required by the fire tender to reach the project site: 15 minutes
20.	Details on staircase	

	Type & no. of buildings	No. of floors	Floor area	Floor Ht.	No. of staircase	Width of the staircase	Travel distance (m)
	1 building	B1 + B2 + G + 8	10,475.41	45.0	8	2.0	31
21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the Ground water table: ---- • No. & dimensions of RWH tank(s) : ---- • No. and depth of percolations wells : 5 • Details on Pre-treatment facilities: Desilting cum filter chamber 					
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) : 800 • Area covered by shrubs, bushes and lawn (m²): 1,159.8 • Total Green Area (m²): 1,959.8 • Green Area % of plot area: 10 • No. of trees and species to be planted: 400 					
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Rs. 11.5 lacs as annual recurring cost & Rs. 50.5 lacs as capital cost will be used for sewage treatment, solid waste management, environment monitoring, rain water harvesting, green belt development etc.					
24.	Proposed dust control measures during the construction phase	Dust suppression by spraying of water, peripheral barricading the project site, covering the construction material during transportation and storage, compaction of soil during various construction activities					
25.	Eco friendly building material usage details.	Fly ash bricks/fly ash blended concrete blocks, fly ash paving blocks.					
26.	Details of amenities to be provided to the construction workers.	Welfare facility will be provided as per Gujarat Building and Other Construction Worker Rules and Regulations including provision of first aids, sanitation facilities, drinking water etc.					
27.	Documents related to land possession.	Copy of N.A order for F.P.No. 46 submitted by them shows that the land for commercial use is in the name of M/s I.T.M.Infra. Copy of index of Sub-Registrar's office for F.P.No. 38 submitted shows that the N.A land for commercial use is in the name of M/s I.T.M.Infra, a partnership firm.					
<p>During the meeting, the project proponent was suggested to provide maximum possible number of solar lights in open & landscape areas and after detailed discussion, it was decided to consider the project only after submission of the following:</p> <ol style="list-style-type: none"> 1. Revised Form – 1 & Form – 1A, revised project plans showing the proposed changes in built up area, FSI area, ground coverage, revised project details like building height, water requirement & sewage generation, municipal solid waste generation, parking requirement & parking area provision etc. after the proposed changes. 2. Copy of permission obtained from the concerned competent authority for the proposed FSI. 							
3.	The Boulevard	F.P.No.:65, O.P.No.:76, Block No.: 349, T.P.S.No.: 14 (Pal), At Pal, Surat.					

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

Sr. No.	Particulars	Details															
1.	Proposal is for	New Project [SIA/GJ/NCP/57977/2016]															
2.	Type of Project	Commercial															
3.	Project / Activity No. [8(a) or 8(b)]	8(a)															
4.	Name of the project	Boulevard															
5.	Name of Developer	Mr. Ashvinbhai Balubhai Babariya															
6.	Estimated Project Cost (Rs. In Crores)	Rs. 45 crores															
7.	Whether construction work has been initiated at site? If yes, details thereof	No															
8.	Project Details	<ul style="list-style-type: none"> • Land / Plot Area (m²): 8,272.0 • FSI area (m²):17,606.78 • Total BUA (m²):30,818.76 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area</td> <td>18,612.0</td> <td>17,606.78</td> </tr> <tr> <td>Ground Coverage</td> <td>3,722.40</td> <td>3,711.03</td> </tr> <tr> <td>Common Plot Area</td> <td>827.2</td> <td>827.2</td> </tr> <tr> <td>Max. building height</td> <td>45</td> <td>17.68</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area	18,612.0	17,606.78	Ground Coverage	3,722.40	3,711.03	Common Plot Area	827.2	827.2	Max. building height	45	17.68
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Common Plot Area	827.2	827.2															
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9.	Building Details	<ul style="list-style-type: none"> • No. of Buildings:1 • No. of blocks: 2 • Scope of buildings/blocks: 2 level basement + ground floor + 4 floors • No.& size of Residential Units: --- • No. & type of Commercial Units: 321 units • Details of amenities if any:- -- 															
10.	No. of expected residents / users	1450															
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> • Water requirement (KL/day):15.0 • Source of water: Water supply from Surat Municipal Corporation (SMC) • Waste water generation quantity (KL/day):2.1 • Mode of disposal: Into drainage line of Surat Municipal Corporation 															

		(SMC)																														
12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> Water requirement (KL/day):134.0 Source of water: Water supply from Surat Municipal Corporation (SMC) Waste water generation quantity (KL/day): 104.0 Mode of disposal: Into drainage line of Surat Municipal Corporation (SMC) 																														
13.	Status of water supply and drainage line	Both drainage and water supply lines are available in the area.																														
14.	Solid waste Management	<p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>827.2</td> <td>400</td> <td>400 m³ of excavated top soil will be utilized for greenbelt development .</td> </tr> <tr> <td>Other excavated earth</td> <td>33,541.71</td> <td>10,091.84</td> <td>427.2 m³ of top soil and 23,449.87 m³ of other excavated earth will be utilized for other project after payment of necessary royalty if any.</td> </tr> <tr> <td>Construction debris</td> <td>15 kg/day</td> <td rowspan="3">Nil</td> <td rowspan="3">Sold off to recyclers</td> </tr> <tr> <td>Steel scrap</td> <td>15 kg/day</td> </tr> <tr> <td>Discarded packing materials</td> <td>6 kg/day</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Dry waste</td> <td>200</td> <td rowspan="2">Into bins to be provided within premises.</td> <td rowspan="2">Disposal through door to door waste collection system of SMC.</td> </tr> <tr> <td>Wet waste</td> <td>235.5</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Details of segregation if to be done: Separate bins will be provided for dry and wet waste to each unit and wet waste will be processed 		Generation (m ³)	Quantity to be reused (m ³)	Mode of Disposal / Reuse	Top Soil	827.2	400	400 m ³ of excavated top soil will be utilized for greenbelt development .	Other excavated earth	33,541.71	10,091.84	427.2 m ³ of top soil and 23,449.87 m ³ of other excavated earth will be utilized for other project after payment of necessary royalty if any.	Construction debris	15 kg/day	Nil	Sold off to recyclers	Steel scrap	15 kg/day	Discarded packing materials	6 kg/day	Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse	Dry waste	200	Into bins to be provided within premises.	Disposal through door to door waste collection system of SMC.	Wet waste	235.5
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		<p>within premises using OWC. Recyclable material will be disposed as per the practice of SMC.</p> <ul style="list-style-type: none"> • Capacity and no. of community bins to be placed within premises:1 bin having capacity of 250 kg capacity for dry waste and 250 kg for wet waste will be provided for the proposed commercial building. • Landfill site where waste will be ultimately disposed by local authority: at Khajod Disposal Site
15.	Parking Details	<ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 5,282.03 m² • Parking area requirement for Commercial units as per GDCR: 5, 282.03 m² • Total number of CPS requirement for the project as per NBC :352 • Number of CPS requirement for commercial units as per NBC:352 • Total Parking area provided (m²) & No. of CPS:12,116.33 m² and 386 CPS • Parking area provided in basement (m²) & No. of CPS:11,464.83 m² and 358 CPS • Parking area provided as open surface (m²) & No. of CPS:651.50 m² and 28 CPS
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads:24 m, 18 m and 15 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:6.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation):3 m • Width of all internal roads: 6.5 m
17.	Details of Green Building measures proposed.	<p>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, LED 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.</p>
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply: Maximum demand: 1605 KW Connected load:1700 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:2 × 132 KVA Fuel & its quantity:diesel (10 Liter/h) Note : - D.G. Sets will be used in case of power failure or fire emergency

19.	Fire and Life Safety Measures	<ul style="list-style-type: none"> • 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: Sprinkler per 6.9 m² area of basement & the areas having storage of combustible material, fire extinguishers on each floor & in both the level basements, wet riser opening at each floor, manually operated electric fire alarm system, hose reel, terrace water tanks of 15 KL capacity, underground water tank of 300 KL etc. • Nearest fire station: Adajan fire station. Distance from project site: 4 km. 				
20.	Details on staircase					
	Type & no. of buildings	No. of floors	Floor area	No. of staircase	Width of the staircase	Travel distance (m)
	AB (1)	2B + G+4	3510.32	5 staircases upto 2 nd floor & 4 staircases on 3 rd & 4 th floor.	1.52 m	<25
21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the Ground water table:11m • 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 				
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) :450.0 • Area covered by shrubs and bushes (m²):200.0 • Lawn covered area (m²):350 .0 • Total Green Area (m²):800.0 • Green Area % of plot area:9.67% • No. of trees and species to be planted:200 				
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	<ul style="list-style-type: none"> • Green belt development : 40Lacs • Drainage and rain water harvesting: 40lacs • Solar and energy saving: 30lacs • Total: 110Lacs 				
24.	Proposed dust control measures during the construction phase	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.				

25.	Eco friendly building material usage details.	Fly ash brick, aerated blocks, paving blocks, RMC, lead free paints etc.
26.	Basic amenities to be provided to construction workers.	Drinking water & tap water, sanitation facilities, first aid box, free medicines, doctor service, PPEs etc.
27.	Documents related to land possession.	Copy of N.A order obtained for commercial use & village form no. 7 & 12 submitted by them show that the land is in the name of father of the applicant & others. Copy of undertaking submitted by all the land owners stating that development of the project & all necessary permissions including Environment Clearance will be obtained by Mr. Ashvinbhai Balubhai Babariya on behalf of them.

During the meeting, it was presented that the wall mounted ventilation fans with automatic temperature & humidity sensors & having 5 CFM will be provided in basements. Speed level of the fans will be adjusted to ensure 2-3 air changes per hour. It was also presented that provision of high level glass louvers to allow natural cross ventilation & cooling of the common spaces, sky domes to illuminate the corridor & internal spaces in the building, a clerestory in the foyer area to maximize natural light & ventilation above stair of foyer will be made. It is proposed to install organic waste convertor for kitchen waste having capacity of 250 kg/day. It was observed by the committee that the two out of the total five staircases to be provided are round staircases protruding outside the building and looking to the safety point of view the project proponent was suggested to provide regular staircases instead of round staircase. It was presented that separate sanitation blocks for male & female, first aid facilities and drinking water facility will be provided on each floor. They have submitted an undertaking stating that any kind of manufacturing activity will not be allowed in the commercial units of the proposed project and any commercial unit will not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Revised plans showing the provision of staircases as per suggestion of the Committee.
2. Base line status of the existing traffic, impact on it due to the project activities, carrying capacity of the existing roads and details of traffic management in and outside the project during construction and operation phase of the project.
3. Details on provisions to be made for cross ventilation & natural lighting in the commercial units of the project.

4.	Pramukh Aranya proposed by M/s Pramukh Aranya Developers.	at F.P.No. 57, TPS. No. 19, Vill: Parvat-Magob, Tehsil: Choryasi, Dist: Surat
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The SEIAA, Gujarat has accorded environmental clearance to M/s Pramukh Aranya Developers for the Residential Building Construction Project at F.P.No. 57, TPS. No. 19, Vill: Parvat-Magob, Tehsil: Choryasi, Dist: Surat vide order no. SEIAA/GUJ/EC/8(a)/6/2014 dated 08/07/2014 for the built up area of 46,526.34 m².

M/s Pramukh Aranya Developers vide proposal no. SIA/GJ/NCP/58063/2016 dated 24/08/2016

along with revised Form-I & Form-IA applied for amendment in the Environmental Clearance order dated 08/07/2014 for the proposed changes.

The request for the proposed changes was considered during meeting and the project proponent presented the previous and the revised project details before the committee. It was presented that due to increase in the basement area from 5,117.94 m² to 6,875.07 m² and addition of built up area of stair cabin (332.82 m²) + security cabin & electric room (87.6 m²), the built up area of the project is increasing from 46,526.34 m² to 48,703.89 m². Number of building/ blocks & number of floors, number of residential units, FSI area and ground coverage will remain the same as mentioned in the environmental clearance obtained and hence there will not be any change in resource requirement & parking requirement for the project. The basement area to be increased will be used for parking purpose only. Total parking area provision for the project after the proposed increase in basement area will be 12,318.58 m² [including 6,875.07 m² in basement, 3,248.02 m² in hollow plinth and 2,195.49 m² as open surface parking] which is equivalent to 361 CPS.

During the meeting, it was found that proposed changes in terms of increase in basement area will provide more parking space for the proposed project and will not result into additional environmental impacts. After detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of amendment in the environmental clearance order No. SEIAA/GUJ/EC/8(a)/6/2014 dated 08/07/2014.

5.	Neetaben K. Shah	F.P.No.31, T.P.S.No.34, Jagatpur, Ahmedabad.
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The project was earlier taken up in the meeting of SEAC held on 25/05/2016. During the meeting held on 25/05/2016, after detailed discussion, it was decided to appraise the project only after submission of certain additional details regarding the project.

Project proponent submitted the above mentioned details vide their letter dated 02/07/2016.

A person authorized by the project proponent along with their expert / consultant attended the meeting and presented the details sought during the meeting of SEAC held on 25/05/2016. During the course of discussion, it was mentioned that they want to revise the planning by making some changes in the proposed project in near future. The project proponent was suggested to apply afresh with revised planning & changes in the proposed project to which the project proponent was also agreed. The committee unanimously decided to delist the application of the proposed project (i.e proposal no. SIA/GJ/NCP/53085/2016) from the list of applications pending with SEAC and to close the file of the proposed project.

6.	Purna Aartika	S.No.- 695/2, O.P. No.- 150/2, F.P. No. 150/2, Taluka- Sanand, District- Ahmedabad.
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The project was taken up in the meeting of SEAC held on 18/05/2016. During the meeting held on 18/05/2016, it was observed that they have submitted details of Environment Management Plan with its budgetary allocation but not considered the financial provision to be made for the proposed onsite STP. Further it was observed that the parking area requirement for the project was calculated considering the population of Sanand taluka. It was presented that CO sensors at all the corners & in centre of the basement and ventilators (natural & mechanical) will be provided in the basement. After detailed discussion, it was decided to appraise the project further only after submission of the following:

1. Exact details on availability of water supply, drainage connection & municipal solid waste collection facility during operation phase of the proposed project. Copy of receipt obtained from concerned authority against the charges paid by them or permission / letter of intent from

- concerned competent authority showing the availability of these facilities to the project.
2. Details on municipal solid waste & E-waste management & disposal plan.
 3. Details on parking area provision for the project, based on the actual parking area requirement for the project as per the NBC norms, along with back up calculation and parking plan. Details of mechanical parking to be provided (also including its operation, maintenance, energy consumption, appointing trained personnel's etc.) in the basement along with the feasibility of providing mechanical parking considering the basement height.
 4. Details on operation & maintenance of STP during operation phase of the project along with financial provision made for its installation, operation & maintenance.
 5. Details of the D.G. sets including fuel, quantity, stack height, location as well as the acoustic measures proposed to abate noise pollution.
 6. Perspective view of the building(s) to be constructed along with the materials used such as fibers, glass, etc. on the facades or external walls and the impacts thereof on the nearby buildings / residents due to heat island effect and emissions from the air conditioning systems.
 7. Details on common amenities like drinking water facility, sanitary blocks, first aid facilities etc. to be provided at each floor.
 8. Type of activities to be carried out in the proposed commercial units. Undertaking stating that no any kind of manufacturing activity shall be allowed in the commercial units of the proposed project and they will not sold / allot any commercial unit for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.
 9. Detailed plan for loading / unloading of goods, movement plan, space designated for it, parking area designated for trucks/tempo etc.

Project proponent submitted the above mentioned details vide their letter dated 19/07/2016.

Project proponent along with their expert / consultant attended the meeting for appraisal of the project. During the meeting, the project was appraised further based on the additional details submitted as well as facts presented before the committee.

It was presented that the municipal solid waste from the proposed project will be collected by the Sanand Nagarpalika for its final disposal at the municipal solid waste landfill site and a letter, obtained from Sanand Nagarpalika in this regard, has been submitted. They have submitted a letter from Sanand Nagarpalika stating that project of water supply pipeline & underground drainage network in the area of Sanand Nagarpalika has been approved under Satellite Town Planning and the project implementation work has been assigned to Ahmedabad Municipal Corporation, which may complete in the next 2 years. Providing water supply & drainage connection to the project can be considered only after completion of the above mentioned project work. Total parking area of 12,224.94 m² [10,772.36 m² in 2 level basements + 10,772.36 m² as mechanical parking in 2 level basements + 1,335.43 m² as open surface parking] equivalent to 730 CPS will be provided. It was presented that parking area provision for the project has been provided considering its location in the Sanand Taluka. It was presented that the operation & maintenance of STP will be outsourced through contract. A D.G set of 350 kVA to be installed will be used at the time of power failure during operation phase. It was committed to provide drinking water facility, sanitary blocks & first aid facility on each floor of the building. It was presented that loading / unloading of the goods will be carried out during the time of early morning in order to avoid traffic congestion during the operating hours of the project. It was undertaken that any kind of manufacturing activity shall not be allowed in the

commercial units of the proposed project and any commercial units will not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.

Salient features of the project are as under:

Sr. No.	Particulars	Details															
1.	Proposal is for	New Project [SIA/GJ/NCP/53003/2016]															
2.	Type of Project	Commercial project															
3.	Project/Activity No. [8(a) or 8(b)]	Category 'B', 8(a)															
4.	Name of the project	"Prerna Aartika"															
5.	Name of Developer	"M/s. Prerna Infrabuild Ltd."															
6.	Estimated Project Cost (Rs. in Crores)	43 Crores															
7.	Whether construction work has been initiated at site? If yes, details thereof	No any construction activity has been initiated at site.															
8.	Project Details	<ul style="list-style-type: none"> • Land / Plot Area (m²): 9,534.0 • FSI area (m²): 21,447.73 • Total BUA (m²): 36,730.21 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>21,451.50</td> <td>21,447.73</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>5,756.14</td> <td>5,756.14</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>953.40</td> <td>1,091.62</td> </tr> <tr> <td>Max. building height (m)</td> <td>45</td> <td>20.28</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area (m ²)	21,451.50	21,447.73	Ground Coverage (m ²)	5,756.14	5,756.14	Common Plot Area (m ²)	953.40	1,091.62	Max. building height (m)	45	20.28
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Common Plot Area (m ²)	953.40	1,091.62															
Max. building height (m)	45	20.28															
9.	Building Details	<ul style="list-style-type: none"> • No. of Buildings: 1 • No. of Blocks: 1 • Scope of buildings/blocks: 2 level basement + ground floor + 4 floors. • No. & size of Residential Units: --- • No. & type of Commercial Units: Shops (113), Office (376) and Theatre (4 screens x 120 seats = 480 seats) 															
10.	No. of expected residents / users	Fixed Population considered for the project: 3435 Floating population: 978															
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> • Water requirement (KL/day): 18 • Source of water: Local water tankers • Waste water generation quantity (KL/day): 2 • Mode of disposal: Septic tank / soak pit system • Details of reuse of water, if any: None 															
12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> • Total water requirement (KL/day): 106.0 • Fresh water requirement (KL/day): 29.0 • Source of water: Water supply from Sanand Nagarpalika / 															

		<p>Ahmedabad Urban Development Authority.</p> <ul style="list-style-type: none"> • Waste water generation quantity (KL/day): 83.0 • Mode of disposal: Sewage to be generated during the operation phase of the project will be treated in the proposed onsite STP. Treated sewage will be completely used for flushing purpose within premises. • In case of STP provision, capacity of STP: STP Capacity – 100 KL/day • STP Technology: comprising of primary + secondary + tertiary treatment facilities. • Purposes for treated sewage utilization: Treated sewage will be utilized for flushing. • Quantity of treated water to be reused: Flushing (KL/day): about 83.0 • Provision of dual plumbing system (Yes/No): Yes • Quantity and type (treated/untreated) of sewage to be discharged: Sewage to be generated during the operation phase of the project will be treated in the proposed onsite STP. Treated sewage will be completely used for flushing purpose within premises. • Mode of disposal: As above. 																						
13.	Status of water supply and drainage line	<p>Source of water: Sanand Nagarpalika/ AUDA</p> <p>Sewage will be treated in the proposed onsite STP and treated sewage will be 100% reused in flushing.</p> <p>In case of emergency, treated sewage will be discharged into proposed Sanand Nagarpalika / AUDA drainage system.</p>																						
14.	Solid waste Management	<p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>4,000</td> <td>4,000</td> <td>Will be stored onsite and used for development of greenbelt.</td> </tr> <tr> <td>Other excavated earth</td> <td>36,000</td> <td>36000 m³ will be reused for re-filling of foundation & plinth, green belt and levelling low lying areas at project site itself.</td> <td>Excess (if any) will be sent to other site where need may be exist.</td> </tr> <tr> <td>Construction debris</td> <td>300</td> <td>300</td> <td>Will be used for levelling, roads, pavements etc.</td> </tr> <tr> <td>Steel scrap</td> <td>Whatsoever</td> <td>--</td> <td>Will be returned to supplier or sold to</td> </tr> </tbody> </table>				Generation (m ³)	Quantity to be reused (m ³)	Mode of Disposal / Reuse	Top Soil	4,000	4,000	Will be stored onsite and used for development of greenbelt.	Other excavated earth	36,000	36000 m ³ will be reused for re-filling of foundation & plinth, green belt and levelling low lying areas at project site itself.	Excess (if any) will be sent to other site where need may be exist.	Construction debris	300	300	Will be used for levelling, roads, pavements etc.	Steel scrap	Whatsoever	--	Will be returned to supplier or sold to
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Steel scrap	Whatsoever	--	Will be returned to supplier or sold to																					

			scarp dealer / end users.
Discarded packing materials	Whatsoever	--	Will be returned to supplier / sold to authorized recycler
Operation Phase:			
Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	427	Two separate bins (one for dry and one for wet waste) each of 10 L capacity will be provided to each unit. These bins will be emptied in to community bins provided at various locations.	The said common community bins will be regularly emptied by Sanand Nagarpalika
Wet waste			
STP Sludge	What so ever	Will be properly collected in HDPE bags and stored in a separate designated place.	Will be used as low grade soil conditioner within the premises.
<ul style="list-style-type: none"> • Details of segregation if to be done: Two separate bins (one for dry and one for wet waste) each of 10 L capacity will be provided to each unit. • Capacity and no. of community bins to be placed within premises: 40 community 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	<ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 10,723.8 m² • Parking area requirement for Commercial units as per GDCR: 10,723.8 m² • Total number of CPS requirement for the project as per NBC : 217 CPS • Number of CPS requirement for commercial units as per NBC: 217 CPS • Total Parking area provided (m²) & No. of CPS: 22,880.15 m² & 730 CPS • Parking area provided in basement (m²) & No. of CPS: Basement-1 : 5,448.19 m² & 170 CPS and Basement-2: 5,324.17 m² & 166 CPS 	

		<ul style="list-style-type: none"> • Parking area provided as open surface (m²) & No. of CPS: Open space margin: 1,335.43 m² & 58 CPS. • Parking area provided as mechanical parking in basement (m²) & No. of CPS: Basement-1: 5,448.19 m² & 170 CPS and Basement-2: 5,324.17 & 166 CPS.
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads: 40 m wide Viramgam - Sanand highway in South direction of project site and 30 m wide TPS road in East direction of the project site. • Width of Entry & Exit provided on approach road/s: 9 m & 3 m. • Number of Entry & Exit provided on approach road/s: 3 gates including one gate of 9 m width, one 3 m entry / exit & one basement entry. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m • Width of all internal roads: Main internal approach road 9 m & 3 m.
17.	Details of Green Building measures proposed.	<p>Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash, PVC electrical boards, aluminium window frame & marble door frame instead of wood, ground water recharge through rain water harvesting with the help of 3 percolation wells, maximize the use of light colours in the building envelope - to reduce heat absorption and associated cooling requirements, solar lights in common sunlit areas etc.</p>
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply: M/s. UGVCL. Maximum demand: Estimated requirement During construction phase: 100 kW and During operation phase: 2.5 MW. Connected load: Will be applied once EC will be granted • Source: M/s.UGVCL. • Energy saving measures: Use of solar lighting in common sunlit areas, maximum use of LED lights in each block, use of variable frequency drives motors to optimize power consumption, the individual building block has been oriented so as to have maximum natural daylight as well as ventilation, use of building material having lower U-value and the insulating material having higher R-value to have optimum energy performance, maximum the use of light and silent colours in the building envelope so that UV absorption is reduced and associated cooling requirements are minimized etc. • DG Sets: No. and capacity of the DG sets: 1 x 350 kVA Fuel & its quantity: HSD. 75 lit/hr.
19.	Fire and Life Safety Measures	<ul style="list-style-type: none"> • Nearest fire station is Bodakdev fire station which is approx. 14 km. Time required for a fire tender to reach at the project site is 30

		<p>-35 minutes.</p> <ul style="list-style-type: none"> • During operation phase: 2 underground water storage tanks. One of 100 KL capacity and the other one of 165 KL capacity will be provided. Fire extinguishers will be provided • During the construction phase: Fire extinguishers in common areas, personal protective equipments like earplugs, dust masks, safety shoes, helmets, hand gloves, etc will be provided to all workers, all workers will be trained to use welding shields and follow safe practices, provision of first aid facilities & related training to the construction workers, maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition, "H" frame scaffolds & ladders made of mild steel, completely concealed copper wiring, all electrical fittings / equipments used will meet the relevant IS standards etc. 										
20.	Details on staircase											
	<table border="1"> <thead> <tr> <th>No. of floors</th> <th>Maximum floor area (m²)</th> <th>No. of staircase / Lifts</th> <th>Width of the staircase (m)</th> <th>Travel distance (m)</th> </tr> </thead> <tbody> <tr> <td>2B+G+4</td> <td>3445.13</td> <td>8 staircases 8 lifts</td> <td>1.52 – 2.0</td> <td>Approx. 20</td> </tr> </tbody> </table>	No. of floors	Maximum floor area (m ²)	No. of staircase / Lifts	Width of the staircase (m)	Travel distance (m)	2B+G+4	3445.13	8 staircases 8 lifts	1.52 – 2.0	Approx. 20	
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2B+G+4	3445.13	8 staircases 8 lifts	1.52 – 2.0	Approx. 20								
21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the Ground water table: depth of water level 40 m as per CGWB report • No. & dimensions of RWH tank(s): 3 RWH structures of 0.25 m dia. will be provided. • No. and depth of percolations wells: 3 RWH structures • Details on Pre-treatment facilities: Before recharging rain water, suitable arrangements of filtering (preferably sand filtration media) will be provided. Gratings at mouth of each drainpipe will be provided on terraces to trap leaves, debris and floating materials. Filter media will be cleaned before every monsoon season. First rain separator will be provided to flush off first rains. During rainy season, the whole system (roof catchment, pipes, screens, first flush and filters) will be checked before and after each rain and preferably cleaned after every dry period exceeding a month. 										
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) : 513 • Area covered by shrubs and bushes (m²):-- • Lawn covered area (m²): -- • Total Green Area (m²): 513 • Green Area % of plot area: 5.3% • No. of trees and species to be planted: Local species such as Ashok, Sevan, Jambu, Guava, Kadam etc. will be preferred for plantation. 										

23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Budgetary allocation of Rs. 4.0 lacs & Rs. 65.0 lacs (including Rs. 40 lacs for installation of the onsite STP & about Rs. 10 lacs per annum of O&M cost of STP) has been proposed for Environmental Management Plan during the construction phase & operation phase respectively.
24.	Dust control measures	Temporary windshield barriers, regular water sprinkling, tarpaulin sheet cover on the material during the transportation, maximum use of Ready Mix Concrete (RMC), uniform piling of sand and proper storage to avoid dusting.
25.	Eco friendly building materials	Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash.
26.	Facilities to be provided to the construction workers	Sanitation facilities, drinking water, municipal solid waste collection facility etc.
27.	Documents related to land possession.	Village form no. 7 & 12 and N.A order submitted by them shows that N.A land for commercial use is in the name of land owner Ms. Shradhha Kothari. Registered copy of sale deed between the land owner & Ms. Nalini Shah has been submitted. M/s Prerna Infrabuild has entered into the development agreement with Ms. Nalini Shah for the proposed project and a copy of the same has been submitted.

During the meeting, the committee found that from the details presented before the committee, the exact source of water supply & drainage connection is not clear. Further it was presented that due to increase in basement area, built up area of the project is increasing from 36,730.21 m² to 37,092.54 m² (i.e increase of 362.33 m²). After detailed discussion, it was decided to consider the project only after submission of the following:

1. Revised Form – 1 & Form – 1A for the proposed changes in the built up area of the project.
2. Exact source of water supply & drainage connection for the project during operation phase along with the authentic supporting documents.

7.	Aqua	R. S. No.129/P, T.P.S. No. 23 (Mota Mava), O.P. No. 23, F.P. No.23, Village:Mota Mava, Taluka & District : Rajkot.
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The project was earlier taken up in the meeting of SEAC held on 25/05/2016. During the meeting held on 25/05/2016, the project proponent was suggested to provide STP and to use solar energy at the extent possible. After detailed discussion, it was decided to appraise the project only after submission of the following:

1. Proposal for providing STP for the project and details of Sewage Treatment Plant with its capacity, size of each unit, retention time and its location on the plan. Measures proposed to avoid odour nuisance due to STP in operation phase. STP sludge management plan. Design details of dual plumbing system to be provided for reuse of treated sewage within premises.
2. Revised details on water requirement and sewage generation for the project considering reuse of

treated sewage for gardening & flushing. Design drawing of dual plumbing system.

3. Details on solar energy utilization for the proposed project.
4. Source of availability of water supply, drainage connection & municipal solid waste collection facility to the proposed project and permission from concerned competent authority in this regard.
5. Details of main approach road to the proposed project site or T.P. scheme map showing the availability of the approach road to the proposed project site.
6. Copy of permission obtained from Airports Authority of India for the proposed building height.

Project proponent submitted the above mentioned details vide their letter dated 19/07/2016.

Project proponent along with their expert / consultant attended the meeting for appraisal of the project. During the meeting, the project was appraised further based on the additional details submitted as well as facts presented before the committee.

It was presented that STP of 60 KL/day capacity will be provided. Sewage – 58 KL/day to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening (9.0 KL/day) & flushing (22.0 KL/day) purpose within premises and only remaining quantity of treated sewage will be discharged into the drainage line of Rajkot Urban Development Authority (RUDA). From the total water requirement of 81.0 KL/day for the proposed project, 50.0 KL/day will be obtained through water supply from RUDA and remaining water requirement of 31 KL/day will be met through treated sewage. It is proposed to provide 15 nos. of solar street LED lights, 6 nos. of solar based LED lights for common plot and 98 nos. of solar based LED lights for building passages. They have submitted copies of letters obtained from RUDA stating that the water supply, drainage connection & municipal solid waste collection facility will be provided to the project under water supply project, drainage network project & municipal solid waste management project of Motamava. Copy of T. P. Scheme map showing 18.0 m & 9 m wide approach roads to the project site has been submitted. Copy of application made for obtaining permission from Airports Authority of India has been submitted.

Salient features of the project are as under:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/53552/2016]
2.	Type of Project	Residential
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Aqua
5.	Name of Developer	Jadiben Jivabhai Aahir
6.	Estimated Project Cost (Rs. In Crores)	39 .85 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction work has been initiated at site.
8.	Project Details	<ul style="list-style-type: none"> • Land / Plot Area (m²): 10,193.30

		<ul style="list-style-type: none"> FSI area (m²): 22,878.18 Total BUA (m²): 33,712.48 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>22,934.9</td> <td>22,878.18</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>---</td> <td>2,465.66</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>1,019.33</td> <td>1,019.44</td> </tr> <tr> <td>Max. building height (m)</td> <td>45</td> <td>38.65</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area (m ²)	22,934.9	22,878.18	Ground Coverage (m ²)	---	2,465.66	Common Plot Area (m ²)	1,019.33	1,019.44	Max. building height (m)	45	38.65
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Ground Coverage (m ²)	---	2,465.66															
Common Plot Area (m ²)	1,019.33	1,019.44															
Max. building height (m)	45	38.65															
9.	Building Details	<ul style="list-style-type: none"> No. of Buildings: 5 No. of Blocks: 4 Residential blocks + 1 Amenity Block Scope of buildings/blocks: Basement + hollow plinth + 12 floors. No. & size of Residential Units: 96 (Size : Approx. 214 m²) No. & type of Commercial Units: --- Details of amenities if any: 1 Amenity block having 2 units. 															
10.	No. of expected residents / users	Fixed population considered for the project: 480 Persons Floating population considered for the project: 288 Persons															
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> Water requirement (KL/day): 25 Source of water: Local water tanker suppliers Waste water generation quantity (KL/day): 4 Mode of disposal: Septic tank / soak pit system Details of reuse of water, if any: None 															
12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> Total water requirement (KL/day): 81.0 Fresh water requirement (KL/day): 50.0 Source of water: Water supply from Rajkot Urban Development Authority (RUDA). Waste water generation quantity (KL/day): 58.0 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 drainage line of Rajkot Urban Development Authority (RUDA). In case of STP provision, capacity of STP: 60.0 KL/day Purposes for treated sewage utilization: Flushing & Gardening Quantity of treated water to be reused: 1. Gardening (KL/day): 9.0 2. Flushing (KL/day): 22.0 Provision of dual plumbing system (Yes/No): Yes Quantity and type (treated/untreated) of water to be discharged: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purposes within premises and only remaining quantity of treated sewage will be discharged into the drainage line of Rajkot Urban Development Authority (RUDA). Mode of disposal: as above. 															

13.	Status of water supply and drainage line	RUDA drainage line is there in the area. It was presented that the project will be completed within 2-2.5 years. The existing water supply & drainage connection, is already available in the area, will be available to the project during operation phase.																																
14.	Solid waste Management	<p>Construction Phase:</p> <table border="1" data-bbox="459 389 1366 1039"> <thead> <tr> <th></th> <th>Generation</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>1,500</td> <td>1,500</td> <td>Development of greenbelt within premises.</td> </tr> <tr> <td>Other excavated earth</td> <td>13,250</td> <td>13,250</td> <td>Leveling low lying areas and development of green belt area at proposed site itself.</td> </tr> <tr> <td>Construction debris</td> <td>491</td> <td>491</td> <td>Leveling roads, pavements, plot filling, plinth filling etc.</td> </tr> <tr> <td>Steel scrap</td> <td>3 Ton</td> <td>Nil</td> <td>To be sold to scarp dealer</td> </tr> <tr> <td>Discarded packing materials</td> <td>20,000 bags</td> <td>Nil</td> <td>To be sold to authorized vendor.</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1" data-bbox="459 1106 1366 1451"> <thead> <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> </thead> <tbody> <tr> <td>Dry waste & Wet waste</td> <td>240 kg/day</td> <td>12 Nos. of common bins of 80 litre capacity will be provided for collection of waste.</td> <td>Will be regularly collected by RUDA for disposal.</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: Not to be done • Capacity and no. of community bins to be placed within premises: 12 Nos. – each of 80 litre • Landfill site where waste will be ultimately disposed by local authority: --- 		Generation	Quantity to be reused (m ³)	Mode of Disposal / Reuse	Top Soil	1,500	1,500	Development of greenbelt within premises.	Other excavated earth	13,250	13,250	Leveling low lying areas and development of green belt area at proposed site itself.	Construction debris	491	491	Leveling roads, pavements, plot filling, plinth filling etc.	Steel scrap	3 Ton	Nil	To be sold to scarp dealer	Discarded packing materials	20,000 bags	Nil	To be sold to authorized vendor.	Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse	Dry waste & Wet waste	240 kg/day	12 Nos. of common bins of 80 litre capacity will be provided for collection of waste.	Will be regularly collected by RUDA for disposal.
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Dry waste & Wet waste	240 kg/day	12 Nos. of common bins of 80 litre capacity will be provided for collection of waste.	Will be regularly collected by RUDA for disposal.																															
15.	Parking Details	<ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 4,575.6 m² • Parking area requirement for residential units as per GDCR: 4,575.6 m² • Total number of CPS requirement for the project as per NBC : 96 CPS • Number of CPS requirement for residential units as per NBC: 96 CPS • Total Parking area provided (m²) & No. of CPS: 7,184.48 m² (236 																																

		<p>CPS)</p> <ul style="list-style-type: none"> • Parking area provided in basement (m²) & No. of CPS: 4,677.02 m² (146 CPS) • Parking area provided in hollow plinth (m²) & No. of CPS: 2,233.34 m² (80 CPS) • Parking area provided in hollow plinth of amenity building (m²) & No. of CPS: 274.12 sq.m. (10 CPS)
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads: 18 m & 9 m. • Number of Entry & Exit provided on approach road/s: 3 gates (two on 18 m wide road & one on 9 m wide road) • 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): Ranging from 6 to 8 m • Width of all internal roads: 6 to 8 m
17.	Details of Green Building measures proposed.	<p>Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash, PVC electrical boards, ground water recharge through rain water harvesting with the help of 3 percolation wells, maximize the use of light colours in the building envelope - to reduce heat absorption and associated cooling requirements, 15 nos. of solar street LED lights, 6 nos. of solar based LED lights for common plot and 98 nos. of solar based LED lights for building passages etc.</p>
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply: Maximum demand: During Construction: 100 KW During Operation: 1.0 MW • Source: M/s. Paschim Gujarat Vij Co. Ltd • Energy saving measures: Maximum use of LED lights, use of variable frequency drive motors to optimize power consumption, maximum use of natural daylight through architectural design & proper orientation of the buildings, use of the building material having lower U-value and the insulating material having higher R-value to have optimum energy performance, maximizing the use of light and silent colours in the building envelope so that UV absorption is reduced and associated cooling requirements are minimized, 15 nos. of solar street LED lights, 6 nos. of solar based LED lights for common plot and 98 nos. of solar based LED lights for building passages. • DG Sets: No. and capacity of the DG sets: 1 x 75 KVA (as a back-up) Fuel & its quantity: HSD
19.	Fire and Life Safety Measures	<ul style="list-style-type: none"> • During operation phase: Fire extinguishers, hose reel, down comer, manual alarm system, sprinkler system in basement, 3 Nos. of underground fire water storage tank each having of 50 KL capacity,

		<p>overhead tanks of capacity 25 KL capacity on each floor etc.</p> <ul style="list-style-type: none"> • During construction phase: Personal protective equipments like earplugs, dust masks, safety shoes, helmets, hand gloves etc. will be provided to all workers, all workers will be trained to use welding shields and follow safe practices, provision of first aid facilities & related training to the construction workers, maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition, "H" frame scaffolds & ladders made of mild steel, completely concealed copper wiring, all electrical fittings / equipments used will meet the relevant IS standards etc. • Nearest fire station is Kalavad road fire station which is approx. 4.5 km. Time required for a fire tender to reach at the project site is 10 - 15 minutes. 												
20.	Details on staircase	<table border="1"> <thead> <tr> <th>Block</th> <th>No. of Floors in each building</th> <th>Floor Area in each building</th> <th>No. of Stairs in each building</th> <th>Width of Stairs</th> <th>Travel distance</th> </tr> </thead> <tbody> <tr> <td>A , B,C & D</td> <td>B+G+12</td> <td>427.8 m²</td> <td>1</td> <td>2.3 m</td> <td>18.5 m</td> </tr> </tbody> </table>	Block	No. of Floors in each building	Floor Area in each building	No. of Stairs in each building	Width of Stairs	Travel distance	A , B,C & D	B+G+12	427.8 m ²	1	2.3 m	18.5 m
Block	No. of Floors in each building	Floor Area in each building	No. of Stairs in each building	Width of Stairs	Travel distance									
A , B,C & D	B+G+12	427.8 m ²	1	2.3 m	18.5 m									
21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • No. and depth of percolations wells : 3 Nos., 40 m • Details on Pre-treatment facilities: Before recharging rain water, suitable arrangements of filtering (preferably sand filtration media) will be provided. Gratings at mouth of each drainpipe will be provided on terraces to trap leaves, debris and floating materials. Filter media will be cleaned before every monsoon season. First rain separator will be provided to flush off first rains. During rainy season, the whole system (roof catchment, pipes, screens, first flush and filters) will be checked before and after each rain and preferably cleaned after every dry period exceeding a month. 												
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) : 555 • Lawn covered area (m²): 867 • Total Green Area (m²): 1422 • Green Area % of plot area: 14 % • No. of trees and species to be planted: 110 trees of local flora species such as Gulmohar, Asopalav, Neem etc. will be preferred. 												
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Budgetary allocation of Rs. 7.5 lacs & Rs. 18.0 lacs has been proposed for Environmental Management Plan during the construction phase & operation phase respectively.												
24.	Dust control measures	Temporary windshield barriers, regular water sprinkling, tarpaulin sheet cover on the material during the transportation, maximum use of Ready Mix Concrete (RMC), uniform piling of sand and proper storage to avoid dusting.												
25.	Eco friendly building	Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up												

	materials	of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash.
26.	Facilities to be provided to the construction workers	Sanitation facilities, drinking water, municipal solid waste collection facility etc.
27.	Documents related to land possession.	N.A order submitted by them shows that the land of S.No.129 for residential use is in the name of Jadiben Jivabhai Aahir.

During the meeting, the project proponent was asked to obtain permission from Airports Authority of India and after detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

8.	Building construction project by Mr. Prafulchandra C. Mistry	R. S. No. 3 & 4, At Dahej, Tal-Vagara, Dist- Bharuch
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The project was earlier taken up in the meeting of SEAC held on 13/04/2016. During the meeting held on 13/04/2016, after detailed discussion, it was decided to appraise the project further only after submission of the following:

1. Complete management & disposal plan for treated sewage during the operation phase of the project along with the permission from the concerned competent authority for providing drainage connection. Availability of sufficient open land area for utilizing the treated sewage for gardening purpose within premises as proposed. Treated sewage management plan during high rainy days when utilization of treated sewage for gardening purpose is not possible.
2. Exact source of water supply during the operation phase of the project and permission from concerned competent authority for supplying water during the operation phase of the project.
3. Location of the proposed STP & composting facility on the layout plan, their operation & maintenance during the operation phase, budgetary provisions for the proposed STP & composting facility, details of the proposed composting facility etc. should also be submitted.

Project proponent submitted the above mentioned details vide their letter dated 21/05/2016.

Project proponent along with their expert / consultant attended the meeting for appraisal of the project. During the meeting, the project was appraised further based on the additional details submitted as well as facts presented before the committee.

It was presented that basic facilities like water supply, drainage connection & municipal solid waste collection will be provided by Gujarat Petroleum Chemicals & Petrochemicals Special Investment Regional Development Authority (GPCSIRDA) and a letter obtained from GPCSIRDA in this regard has also been submitted. It is proposed to treat sewage to be generated during the operation phase in the proposed onsite STP and treated sewage will be used for gardening & flushing purpose within premises. During rainy days when treated sewage will not be used for gardening purpose, the same will be discharged into the drainage line of GPCSIRDA. Layout plan showing location of the proposed STP & composting facility has been submitted. It was mentioned that about Rs. 40 lacs will be used for the proposed STP & composting facility.

Salient features of the project are as under:

Sr. No.	Particulars	Details															
1.	Proposal is for	New Project [SIA/GJ/NCP/51206/2015]															
2.	Type of Project	Residential & Commercial															
3.	Project / Activity No. [8(a) or 8(b)]	8(a)															
4.	Name of the project	Residential & commercial building construction project.															
5.	Name of Developer	Mr. Prafulchandra C. Mistry															
6.	Estimated Project Cost (Rs. In Crores)	30 Crore															
7.	Whether construction work has been initiated at site? If yes, details thereof	No.															
8.	Project Details	<ul style="list-style-type: none"> Land / Plot Area (m²): 17,503.0 FSI area (m²): 20,413.29 Total BUA (m²): 35,267.67 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>20,476.73</td> <td>20,413.29</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>5,119.18</td> <td>4,590.73</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>1,137.59</td> <td>1,219.19</td> </tr> <tr> <td>Max. building height (m)</td> <td>--</td> <td>15</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area (m ²)	20,476.73	20,413.29	Ground Coverage (m ²)	5,119.18	4,590.73	Common Plot Area (m ²)	1,137.59	1,219.19	Max. building height (m)	--	15
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Max. building height (m)	--	15															
9.	Building Details	<ul style="list-style-type: none"> No. of Buildings: 13 Nos. No. of Blocks: 16 Nos. Scope of buildings/blocks: Basement + hollow plinth + 5 floors. No. & size of Residential Units: 386 Nos. (27 –HK, 283- 1BHK & 2 BHK -76) No. & type of Commercial Units: 32 Shops Details of amenities if any: 1 Hall 															
10.	No. of expected residents / users	1737 nos. residential users															
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> Water requirement (KL/day): 15.95 Source of water: Water tankers. Waste water generation quantity (KL/day): 1.15 Mode of disposal: Disposed through onsite septic tank and soak pit Details of reuse of water, if any: washing water of construction equipments will be reused for curing 															

12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> • Total water requirement (KL/day): 347.0 • Fresh water requirement (KL/day): 146.0 • Source of water: GPCPSIRDA • Waste water generation quantity (KL/day): 202.0 • Mode of disposal: Sewage to be generated from the Commercial & Residential units will be treated in the proposed onsite STP and reused for flushing & gardening purpose within premises. Remaining quantity of treated sewage will be discharged into the drainage line of GPCPSIRDA. • In case of STP provision, capacity of STP: 250 KL/day • STP Technology: ASP type • Purposes for treated sewage utilization: Flushing and gardening • Quantity of treated sewage to be reused: 1. Gardening (KL/day): 95 2. Flushing (KL/day): 97 • Provision of dual plumbing system (Yes/No): Yes • Quantity and type (treated/untreated) of water to be discharged: • Mode of disposal: Sewage to be generated from the Commercial & Residential units will be treated in the proposed onsite STP and will be reused for flushing & gardening purpose within premises. Remaining quantity of treated sewage will be discharged into the drainage line of GPCPSIRDA. 																						
13.	Status of water supply and drainage line	Water supply & drainage connections will be provided by GPCPSIRDA.																						
14.	Solid waste Management	<p>Construction Phase:</p> <table border="1" data-bbox="560 1200 1461 1854"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>20,653</td> <td>20,653</td> <td rowspan="3">Excavated surplus earth and construction debris will be refilled at low lying areas within the project premises. Top soil to be generated will be used for greenbelt development.</td> </tr> <tr> <td>Other excavated earth</td> <td></td> <td></td> </tr> <tr> <td>Construction debris</td> <td>48</td> <td>48</td> </tr> <tr> <td>Steel scrap</td> <td>5.6 MT</td> <td>5.04 MT</td> <td>Will be sold to recycler</td> </tr> <tr> <td>Discarded packing materials</td> <td>1 MT</td> <td>--</td> <td>Will be sold to recycler</td> </tr> </tbody> </table> <p>Operation Phase:</p>		Generation (m ³)	Quantity to be reused (m ³)	Mode of Disposal / Reuse	Top Soil	20,653	20,653	Excavated surplus earth and construction debris will be refilled at low lying areas within the project premises. Top soil to be generated will be used for greenbelt development.	Other excavated earth			Construction debris	48	48	Steel scrap	5.6 MT	5.04 MT	Will be sold to recycler	Discarded packing materials	1 MT	--	Will be sold to recycler
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		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry waste	1080 Kg	Municipal solid waste to be generated will be collected in the bins to be provided to each unit.	As below.
		Wet waste			
		STP Sludge	200 Kg	--	Reused as manure in garden area.
		<ul style="list-style-type: none"> • Details of segregation if to be done: The solid wastes generated will be segregated into biodegradable and non-biodegradable wastes and collected in separate bins. The non-biodegradable wastes will be sold to recyclers and the biodegradable wastes will be collected and disposed through composting process. • Capacity and no. of community bins to be placed within premises: 140 liter each; 15 nos. of bins; • Disposal: The non-biodegradable wastes will be sold to recyclers and the biodegradable wastes will be collected and disposed through composting process. • Landfill site where waste will be ultimately disposed by local authority:-- 			
15.	Parking Details	<ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 3,212.51 m² • Parking area requirement for residential units as per GDCR: 2,911.46 m² • Parking area requirement for Commercial units as per GDCR: 301.05 m² • Total number of CPS requirement for the project as per NBC: 213 CPS • Number of CPS requirement for residential units as per NBC: 193 CPS • Number of CPS requirement for commercial units as per NBC: 20 CPS • Total Parking area provided (m²) & No. of ECS: 12,711.87 m², 425 CPS • Parking area provided in basement (m²) & No. of ECS: 7,963.89 m², 249 CPS • Parking area provided in hollow plinth (m²) & No. of ECS: 3,863.41 m², 138 CPS • Parking area provided as open surface (m²) & No. of ECS: 884.57 m², 38 CPS 			
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads: 20 m & 12 m wide road • Number of Entry & Exit provided on approach road/s: 2 nos. 			

		<ul style="list-style-type: none"> • Width of Entry & Exit provided on approach road/s: 9.0 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m • Width of all internal roads: 9.0 , 5.0 & 7.5 m 																																																															
17.	Details of Green Building measures proposed.	Maximum utilization of natural light, CFL lighting fixtures in the common areas, use of solar energy in external lighting (Landscape lighting), aerated block [Cement + Fly Ash + Air mixture] will be used to reduce heat stress inside building, rain water harvesting through ground water recharge etc.																																																															
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply Maximum demand: 1500 KW Connected load: -- Source: D.G.V.C.L • Energy saving measures: Maximum utilization of natural light, CFL lighting fixtures in the common areas, use of solar energy in external lighting (Landscape lighting), aerated block [Cement + Fly Ash + Air mixture] will be used to reduce heat stress inside building etc. • DG Sets No. and capacity of the DG sets 1 x 85 KVA Fuel & its quantity: Diesel & 8 lit/hr. 																																																															
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21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the Ground water table: 80-100 ft • No. & dimensions of RWH tank(s) : --- • No. and depth of percolations wells : 4 nos. • Details on Pre-treatment facilities : Gravity filter, MOC: PE 																																																															
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) : 431.0 • Area covered by shrubs and bushes (m²): inclusive in lawn covered area • Lawn covered area (m²): 615.63 • Total Green Area (m²): 1,046.63 • Green Area % of plot area: 8.9 % • No. of trees and species to be planted: 145 nos. of trees like 																																																															

		Asopalav, Gulamhor, Palm, Ficus ,Badam etc.		
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Sr. No.	Description	Capital Cost (Rs. In Lacs)
		1	Landscaping	7 Lacs
		2	Groundwater Recharge Structure	7 Lacs
		3	Solar Energy Utilization	5 lacs
		4	Energy Efficient Lighting	2 lacs
		5	Solid Waste Management	1 lacs
		6	Monitoring of Air, Water, Noise & Soil	0.75 lacs
		7	Sewage treatment & composting	40 lacs
		Total		62.75 Lacs
24.	Proposed dust control measures during the construction phase	Vertical curtains, water sprinkling, covering the building materials with the tarpaulin sheet etc.		
25.	Eco friendly building material usage details.	Fly ash based bricks, Ready Mix Concrete, A.C.C Blocks will be used.		
26.	Amenities for the construction workers.	Sanitation facility, drinking water & tap water, soak pit for domestic waste water collection, first aid box, free medicine, doctor service, PPEs etc.		
27.	Documents related to land possession.	Copy of N.A orders submitted by them shows that the land for residential & commercial use is in the name of applicant Mr. Prafulchandra C. Mistry.		

During the meeting, it was clarified that as per the zoning certificate obtained from Regional Development Authority of Dahej the project site falls in specific mix use zone of the Final Development Plan of GPCPSIRDA, which is sanctioned by the Apex Authority / GIDB. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Exact aerial distance of the project site from the nearby industries, type of the industries, their impacts on the proposed project and details of mitigation measures proposed.

9.	Building construction project by Bhaveshbhai A. Buha.	R.S.NO -196+196/1/1+196/1/2+197/1+197/2/1, Moje - Kosamba, Tal -Mangrol, Dist - Surat.
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Details of the proposed project as presented before the committee is described below:

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/53346/2016]
2.	Type of Project	Residential
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the	Residential project.

	project																
5.	Name of Developer	Mr. Bhaveshbhai A. Buha															
6.	Estimated Project Cost (Rs. In Crores)	28 Crore															
7.	Whether construction work has been initiated at site? If yes, details thereof	No.															
8.	Project Details	<ul style="list-style-type: none"> Land / Plot Area (m²): 84,456.0 FSI area (m²): 30,840.70 Total BUA (m²): 33,181.33 m² <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area(m²)</td> <td>84,864.51</td> <td>30,840.70</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>28,288.17</td> <td>15,579.44</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>8,445.60</td> <td>10,017.88</td> </tr> <tr> <td>Max. building height (m)</td> <td>--</td> <td>6.60 m</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area(m ²)	84,864.51	30,840.70	Ground Coverage (m ²)	28,288.17	15,579.44	Common Plot Area (m ²)	8,445.60	10,017.88	Max. building height (m)	--	6.60 m
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Common Plot Area (m ²)	8,445.60	10,017.88															
Max. building height (m)	--	6.60 m															
9.	Building Details	<ul style="list-style-type: none"> No. of Buildings: 227 Row houses No. of Blocks: 227 Row houses Scope of buildings/blocks: Ground + 1 floor & size of Residential Units: 227 Nos. (2 BHK- 114 & 3 BHK -97 , 1 BHK 16) No. & type of Commercial Units: - Details of amenities if any: Club House 															
10.	No. of expected residents / users	1021 nos. residential users															
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> Water requirement (KL/day): 15.95 Source of water: Local water tankers Waste water generation quantity (KL/day): 1.15 Mode of disposal: Disposed through onsite septic tank and soak pit Details of reuse of water, if any: washing water of construction equipments will be reused for curing 															
12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> Total water requirement (KL/day): 201.0 Fresh water requirement (KL/day): 87.0 Source of water: water supply from Gram Panchayat. Waste water generation quantity (KL/day): 120.0 Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening, flushing & irrigation purpose. In case of STP provision, capacity of STP: Yes 150 KL/day STP Technology: --- Purposes for treated water utilization: Gardening, irrigation and 															

		flushing <ul style="list-style-type: none"> Quantity of treated water to be reused: 1. Gardening (KL/day): 54.0, 2. Flushing (KL/day): 60.0 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 used for gardening, flushing & irrigation purpose. Mode of disposal: As above. 																															
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Wet waste																																	

						facility.
		STP Sludge	200 Kg	--		Reused as manure.
		<ul style="list-style-type: none"> • Details of segregation if to be done: The solid wastes generated will be segregated into biodegradable and non-biodegradable wastes and collected in separate bins. • Capacity and no. of community bins to be placed within premises: 140 liter each; 15 nos. of bins; • Disposal: The recyclable wastes will be sold to recyclers/vendors and the biodegradable wastes will be collected and treated in the proposed onsite composting facility. • Landfill site where waste will be ultimately disposed by local authority: - 				
15.	Parking Details	Open surface parking space of 14,293.92 m ² equivalent to 621 CPS will be provided. It is proposed to provide 4.5 m & 3 m wide space outside the row houses i.e between the internal road & the compound wall of each individual row house to provide parking space.				
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads: 18 m wide road • Number of Entry & Exit provided on approach road/s: 2 nos. • Width of Entry & Exit provided on approach road/s: 9 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m • Width of all internal roads: 12.19, 9.0 & 7.5 m 				
17.	Details of Green Building measures proposed.	Maximum utilization of natural light, CFL & LED lighting fixtures in common areas, use of solar energy in external lighting, rain water harvesting & ground water recharge, provision of STP & reuse of treated sewage etc.				
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply Maximum demand: 1500 KVA Connected load: -- • Source: D.G.V.C.L • Energy saving measures: Maximum utilization of natural light, CFL & LED lighting fixtures in common areas, use of solar energy in external lighting, aerated block [Cement + Fly Ash + Air mixture will be used to reduce heat stress inside building etc. • DG Sets: --- 				
19.	Fire and Life Safety Measures	--				
20.	Details on staircase					
	Name of Building	No. of floors	Row houses	No. of staircase	Width of the staircase(m)	Travel distance (m)
	A to E type	G + 1	227	01	--	--

21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the Ground water table: 80-100 ft • No. & dimensions of RWH tank(s) : We are installing rain water percolations wells, so do not provided Rain water Harvesting tank • No. and depth of percolations wells : 24 nos., 40 m • Details on Pre-treatment facilities : Gravity filter, MOC: PE 																											
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) : 500 Nos. • Area covered by shrubs and bushes (m²): inclusive in lawn area • Lawn covered area (m²): 10,017,88 • Total Green Area (m²): 10,017.88 • Green Area % of plot area: 11.8 % • No. of trees and species to be planted: 500 nos. of trees like Asopalav, Gulamhor, Palm, Ficus, Badam, Neem etc. 																											
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>Capital Cost (Rs. In Lacs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Landscaping</td> <td>6 Lacs</td> </tr> <tr> <td>2</td> <td>Groundwater Recharge Structure</td> <td>18 Lacs</td> </tr> <tr> <td>3</td> <td>Solar Energy Utilization</td> <td>5 lacs</td> </tr> <tr> <td>4</td> <td>Energy Efficient Lighting</td> <td>2 lacs</td> </tr> <tr> <td>5</td> <td>Solid Waste Management</td> <td>6 lacs</td> </tr> <tr> <td>6</td> <td>Monitoring of Air, Water, Noise & Soil</td> <td>0.75 lacs</td> </tr> <tr> <td>7</td> <td>Sewage Treatment Plant</td> <td>20 lacs</td> </tr> <tr> <td colspan="2">Total</td> <td>57.75 Lacs</td> </tr> </tbody> </table>	Sr. No.	Description	Capital Cost (Rs. In Lacs)	1	Landscaping	6 Lacs	2	Groundwater Recharge Structure	18 Lacs	3	Solar Energy Utilization	5 lacs	4	Energy Efficient Lighting	2 lacs	5	Solid Waste Management	6 lacs	6	Monitoring of Air, Water, Noise & Soil	0.75 lacs	7	Sewage Treatment Plant	20 lacs	Total		57.75 Lacs
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26.	Amenities for the construction workers.	Sanitation facility, drinking water & tap water, soak pit for domestic waste water collection, first aid box, free medicine, doctor service, PPEs etc.																											
27.	Documents related to land possession.	Copy of N.A order submitted by them shows that the land for residential use is in the applicant & others.																											

During the meeting, it was observed that a canal passing adjacent to the project site and layout plan submitted shows that a minimum margin of 9.0 m will be left open between the canal and the building control line. After detailed discussion, it was decided to appraise the project further / consider the project only after satisfactory submission of the following:

1. Exact source of water supply during the operation phase of the project along with the authentic supporting documents.

2. Complete treated sewage management & disposal plan along with the quantity wise break up of treated sewage utilization plan. Treated sewage management plan during the monsoon season when the treated sewage utilization for gardening & irrigation purpose is not possible.
3. Details of composting facility to be provided and management plan of the resultant product.
4. Layout plan showing location of the proposed STP & composting facility.
5. Provide the break-up of greenbelt area in terms of the tree covered and lawn covered area.
6. Notarized consent of other land owners regarding issuance of Environmental Clearance for the proposed project in the name of applicant.

10. Golden Palm City Block No - 704, Moje – Kosamba , Tal-Mangrol , Dist - Surat.

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

Sr. No.	Particulars	Details															
1.	Proposal is for	New Project [SIA/GJ/NCP/53347/2016]															
2.	Type of Project	Residential															
3.	Project / Activity No. [8(a) or 8(b)]	8(a)															
4.	Name of the project	Golden Palm City															
5.	Name of Developer	Mr. Bhaveshbhai A. Buha															
6.	Estimated Project Cost (Rs. In Crores)	35 Crore															
7.	Whether construction work has been initiated at site? If yes, details thereof	No.															
8.	Project Details	<ul style="list-style-type: none"> • Land / Plot Area (m²): 65,000.0 • FSI area (m²): 38,785.87 • Total BUA (m²): 42,006.11 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>68,261.41</td> <td>38,785.87</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>22,753.80</td> <td>19,940.95</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>7,309.02</td> <td>8,115.49</td> </tr> <tr> <td>Max. building height (m)</td> <td>--</td> <td>6.60 m</td> </tr> </tbody> </table>		Permissible	Proposed	FSI Area (m ²)	68,261.41	38,785.87	Ground Coverage (m ²)	22,753.80	19,940.95	Common Plot Area (m ²)	7,309.02	8,115.49	Max. building height (m)	--	6.60 m
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FSI Area (m ²)	68,261.41	38,785.87															
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Common Plot Area (m ²)	7,309.02	8,115.49															
Max. building height (m)	--	6.60 m															
9.	Building Details	<ul style="list-style-type: none"> • No. of Buildings: 314 Row houses • No. of Blocks: -- • Scope of buildings/blocks: Ground + 1 floor • & size of Residential Units: 314 Nos. (2 BHK- 159 & 3 BHK -152, 1 BHK 3) 															

		<ul style="list-style-type: none"> No. & type of Commercial Units: --- Details of amenities if any: Hall & Club House 														
10.	No. of expected residents / users	1413 nos. residential users														
11.	Water & waste water details during construction phase	<ul style="list-style-type: none"> Water requirement (KL/day): 15.95 Source of water: Local water tankers Waste water generation quantity (KL/day): 1.15 Mode of disposal: Disposed through onsite septic tank and soak pit Details of reuse of water, if any: washing water of construction equipments will be reused for curing 														
12.	Water & waste water details during operation phase	<ul style="list-style-type: none"> Total water requirement (KL/day): 276.0 Fresh water requirement (KL/day): 113.0 Source of water: Water supply from Gram Panchayat. Waste water generation quantity (KL/day): 172.0 Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening, flushing & irrigation purpose. In case of STP provision, capacity of STP: Yes 200 KL/day STP Technology: --- Purposes for treated water utilization: Gardening, irrigation and flushing Quantity of treated water to be reused: 1. Gardening (KL/day): 78.0, 2. Flushing (KL/day): 85.0 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 used for gardening, flushing & irrigation purpose. Mode of disposal: As above. 														
13.	Status of water supply and drainage line															
14.	Solid waste Management	<p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>1,000</td> <td>1,000</td> <td rowspan="3">Excavated surplus earth and construction debris will be refilled at low lying areas in the project premises and top soil will be used for</td> </tr> <tr> <td>Other excavated earth</td> <td></td> <td></td> </tr> <tr> <td>Construction debris</td> <td>22</td> <td>22</td> </tr> </tbody> </table>		Generation (m ³)	Quantity to be reused (m ³)	Mode of Disposal / Reuse	Top Soil	1,000	1,000	Excavated surplus earth and construction debris will be refilled at low lying areas in the project premises and top soil will be used for	Other excavated earth			Construction debris	22	22
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Other excavated earth																
Construction debris	22	22														

				development of greenbelt.	
		Steel scrap	2.6 MT	2.04 MT	Will be sold to vendors / recyclers.
		Discarded packing materials	1 MT	--	Will be sold to vendors / recyclers.
Operation Phase:					
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry waste	848	Into separate bins to be provided for dry & wet waste	Recyclable waste will be sold to recyclers/vendors and bio-degradable waste will be treated in the proposed onsite composting facility.
		Wet waste			
		STP Sludge	200 Kg	--	Reused as manure.
		<ul style="list-style-type: none"> • Details of segregation if to be done: The solid wastes generated will be segregated into biodegradable and non-biodegradable wastes and collected in separate bins. • Capacity and no. of community bins to be placed within premises: 140 liter each; 15 nos. of bins; • Disposal: The recyclable wastes will be sold to recyclers/vendors and the biodegradable wastes will be collected and treated in the proposed onsite composting facility. • Landfill site where waste will be ultimately disposed by local authority: - 			
15.	Parking Details	Open surface parking space of 8,589.10 m ² equivalent to 373 CPS will be provided. It is proposed to provide 3 m wide space outside each row house i.e between the internal road & the compound wall of each individual row house to provide parking space.			
16.	Traffic Management	<ul style="list-style-type: none"> • Width of adjacent public roads: -- • Number of Entry & Exit provided on approach road/s: 2 gates will be provided. • Width of Entry & Exit provided on approach road/s: 10.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m • Width of all internal roads:10.5,9.0 & 7.5 m 			

17.	Details of Green Building measures proposed.	Maximum utilization of natural light, CFL & LED lighting fixtures in common areas, use of solar energy in external lighting, rain water harvesting & ground water recharge, provision of STP & reuse of treated sewage etc.				
18.	Energy Requirement, Source and Conservation	<ul style="list-style-type: none"> • Power supply Maximum demand: 1500 KVA Connected load: -- • Source: D.G.V.C.L • Energy saving measures: Maximum utilization of natural light, CFL & LED lighting fixtures in common areas, use of solar energy in external lighting, aerated block [Cement + Fly Ash + Air mixture will be used to reduce heat stress inside building etc. • DG Sets: --- 				
19.	Fire and Life Safety Measures	--				
20.	Details on staircase					
	Name of Building	No. of floors	Row houses	No. of staircase	Width of the staircase(m)	Travel distance (m)
	A to C type	G + 1	314	01	--	--
21.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the Ground water table: 80-100 ft • No. & dimensions of RWH tank(s) : --- • No. and depth of percolations wells : 17 nos., 40 m • Details on Pre-treatment facilities : Gravity filter, MOC: PE 				
22.	Green area details	<ul style="list-style-type: none"> • Tree covered area (m²) : 500 Nos. • Area covered by shrubs and bushes (m²): inclusive in lawn area • Lawn covered area (m²): 6,284.43 • Total Green Area (m²): 6,284.43 • Green Area % of plot area: 9.6 % • No. of trees and species to be planted: 500 nos. of trees like Asopalav, Gulamhor, Palm, Ficus ,Badam , Neem etc. 				
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Sr. No.	Description	Capital Cost (Rs. In Lacs)		
		1	Landscaping	6 Lacs		
		2	Groundwater Recharge Structure	10 Lacs		
		3	Solar Energy Utilization	3 lacs		
		4	Energy Efficient Lighting	2 lacs		
		5	Solid Waste Management	2 lacs		
		6	Monitoring of Air, Water, Noise & Soil	0.75 lacs		
		7	Sewage treatment plant	25 lacs		
			Total	48.75 Lacs		

24.	Proposed dust control measures during the construction phase	Vertical curtails, water sprinkling, covering the building materials with the tarpaulin sheet etc.
25.	Eco friendly building material usage details.	Fly ash based bricks, Ready Mix Concrete, A.C.C Blocks will be used.
26.	Amenities for the construction workers.	Sanitation facility, drinking water & tap water, soak pit for domestic waste water collection, first aid box, free medicine, doctor service, PPEs etc.
27.	Documents related to land possession.	Copy of village form no. 7 submitted by them shows that the land for the purpose of residential use & for building community hall is in the name of M/s Alpine Infra, a partnership firm, through its partners including the name of applicant.

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

1. Exact source of water supply during the operation phase of the project along with the authentic supporting documents.
2. Details & map showing main approach road to the project site.
3. Complete treated sewage management & disposal plan along with the quantity wise break up of treated sewage utilization plan. Treated sewage management plan during the monsoon season when the treated sewage utilization for gardening & irrigation purpose is not possible.
4. Details of composting facility to be provided and management plan of the resultant product.
5. Layout plan showing location of the proposed STP & composting facility.
6. Provide the break-up of greenbelt area in terms of the tree covered and lawn covered area.

11.	SIA/GJ/IND2/10143/2015	M/s: Nirvan Enterprise, Block No. 71, Khata No. 45, Plot no. 4, Nilkanth Industrial Estate, Village. Dhanot, Dist. Gandhinagar.	Screening & Scoping
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Project / Activity No.: 5(f)

- M/s: Nirvana Enterprise (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/10143/2015 dated 09/03/2016.
- Project proponent was called for presentation in the SEAC meeting dated 13/04/2016.
- Technical presentation made during the meeting by project proponent. During the meeting, considering that Nilkanth Industrial estate is a private estate and basically not a chemical estate where drainage facilities, common environmental infrastructural facilities and effluent disposal facilities exist, the committee was of the view that such Dyes manufacturing unit

having remarkable quantity of industrial effluent generation should not be allowed in such private estates. On asking about the reason for selecting the site for proposed project, PP could not reply satisfactorily. During the meeting, the project proponent was advised to select another location in any of the suitable chemical estates. Considering the above facts, it was unanimously decided to consider the project for TOR/Scoping only after submission of revised proposal.

Project status: New

Project / Activity Details:

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

Sr. no.	Name of Products	Quantity (MT/Month)
1	Acid Green 16	2.0
2	Acid Blue 1	2.0
3	Acid Red 52	2.0
Total		6.0

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

Total plot area is 1500 sq. m & unit has proposed 300 sq m area for the green belt development/Tree plantation. Expected project cost is INR. 50 Lakhs. Aerial distance of nearest residential area is @ 3 km from the proposed site. Water requirement for the proposed project will be 5 KL/day (2 KL for Domestic, 3 KL for Industrial Purpose) and it will be met through Tanker supply. Industrial waste water generation will be 2.6 KL/day, which will be treated in proposed Primary treatment plant and treated waste water will be sent to common facility (Spray dryer unit) namely M/s: Chhatral Environment Management System Pvt. Ltd., (CEMSPL) Chhatral. Domestic waste water (0.5 KL/day) will be disposed off into septic tank/soak pit system. Agro waste / Bio Coal to the tune of 1 MT/day will be used in the proposed Boiler (0.8 TPH). Multi Cyclone dust collector will be provided as APCM for Boiler. Alkali scrubber is proposed as APCM with Sulphonation vessel for control of SO₂ gas. ETP waste (2.5 MT/Year) will be disposed off at the Common TSDF site. Discarded barrels / containers / bags / liners (2 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.05 MT/Year) will be sold only to the registered recyclers. Spent organic solvent will be sold out to authorized Distillation & recycling unit. Spent catalyst will be sold out to authorized re-processors. Sodium bisulfite (5 MT/Month) generated from the scrubber system will be sold to the authorised actual users.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the waste water management, PP informed that the common spray dryer facility of CEMSPL is @ 300 meter away from the proposed site and entire quantity of waste water will be sent to CEMSPL

through dedicated tankers. During meeting Project proponent has requested to consider the project as B2 category project. Looking to the small scale of the project and low pollution potential, the request was considered and the project was categorized as B2 and the additional information was sought for appraisal of the project.

1. Land Possession Documents of the proposed site. NA permission letter from concern authority.
2. Demarcation of proposed project activities in lay out plan.
3. Exact details about infrastructural facilities, plant machineries etc. required for the proposed project.
4. Details of surrounding industrial units within 2 km radius with details like Name and address of the unit, type and nature of industrial activity etc.
5. Project site specific details such as aerial distance of the project site from the nearest (1) Village-Nearest residential area N(2) Water Body: Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) Aanganwadi/School/College/Institute etc. and likely impact on them due to the proposed project along with the mitigation measures proposed to minimize the likely impact. Give satellite image of 2 km radius.
6. Ensure that there is no National Park / Wild Life Sanctuary/Eco Sensitive area etc. Within 10 km radius of the proposed project.
7. 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.
8. 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.
9. Proposed monthly production of each product and product wise monthly consumption of each raw material.
10. Chemical name of each proposed product to be manufactured. Details on end use of each product. Manufacturing process along with chemical reactions, mass balance for each product.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated from the manufacturing process of each product to be manufactured along with mass balance.
12. Stream wise qualitative & quantitative analysis of each waste stream (including process water, cooling tower blow down, boiler blow down, washing effluent etc.) to be generated. Give segregation scheme at source. 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.

13. Details of the ETP units including its capacity, size of each unit, retention time and other technical parameters. Details regarding provision of online continuous pH meter, TOC analyser and flow meter at the final outlet of the ETP.
14. Membership of Common Environmental Infrastructure facility i.e. Common spray dryer CEMSPL.
15. 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.
16. 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.
17. 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.
18. Details of measures proposed for noise pollution abatement & its monitoring.
19. 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?
20. Methodology of de-contamination and disposal of discarded containers and its record keeping.
21. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
22. 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.
23. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
24. 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 Industrial estate and elsewhere.
25. 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.
26. Details of quantity of each hazardous chemical to be stored, Material of Construction of major

<p>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?</p> <p>27. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.</p> <p>28. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.</p> <p>29. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.</p> <p>30. 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.</p> <p>31. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.</p> <p>32. A tabular chart with index for point-wise compliance of above details.</p> <p>The project shall be appraised on satisfactory submission of the above.</p>			
12.	SIA/GJ/IND2/16794/2016	M/s: Arti Chemical Industries (Unit II), E-21, GIDC Vilayat, Tal: Vagra; Dist: Bharuch	Screening Scoping
<p>Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.</p>			
13.	SIA/GJ/IND2/16666/2016	M/s: Hi Tech Coatings, Plot No. 1801/10, GIDC, V.U. Nagar, Anand.	Screening Scoping
<p>Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.</p>			
14.	SIA/GJ/IND2/16866/2016	M/s: Primarius Custom Synthesis Pvt Ltd., Plot No.48/3, GIDC Nandesari, Taluka & Dist: Vadodara	Screening Scoping
<p>Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.</p>			
15.	SIA/GJ/IND2/2213/2015	M/s: Maruti Chemicals, S.No.795/A, Vill. Rakanpur, Ta.: Kalol, Dist.: Gandhinagar.	Appraisal
<p>Project / Activity No.: 5(f)</p> <p>Project status: Existing unit</p> <p>Chronology of EC Process:</p> <ul style="list-style-type: none"> This project proposed by M/s: Maruti Chemicals (herein after Project Proponent – PP) has submitted Application vide their online proposal no. SIA/GJ/IND2/2213/2015 dated 17/09/2015. The location of the unit is outside the notified area. As per amendment to EIA Notification, 			

2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.

- Earlier, this project was considered in the meeting of the SEAC held on 27/11/2015.
- During presentation, PP informed that water requirement is 20.4 KL/day. Fuel requirement is 22 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 and the additional information was sought for appraisal of the project.

Project / Activity Details:

This is an existing unit and unit proposes expansion in manufacturing of Synthetic Organic Chemicals – In-active Pharmaceutical & Cosmetic Ingredients Manufacturing Plant as tabulated below:

Sr. no	Name of Products	Quantity MT/Month		
		Existing	Proposed	Total after Expansion
1	Methacrylic Acid Copolymers			
i	Methacrylic Acid Copolymers Type-A	0.5	19.5	5.0
ii	Methacrylic Acid Copolymers Type-B			2.5
iii	Methacrylic Acid Copolymers Type-C			2.5
iv	Methacrylic Acid Copolymers Aqueous Dispersion			10.0
2	Acrylic Acid Polymers			
i	Acrylic Acid Homopolymers	0.5	30.0	30.5
ii	Acrylic Acid Copolymers	Nil	5.3	5.3
iii	Acrylic Acid Interpolymers	Nil	3.0	3.0
3	Sodium Starch Glycolate			
i	Sodium Starch Glycolate (Maize)	5.0	53.7	47.1
ii	Sodium Starch Glycolate (Potato)			11.6
4	Croscarmellose Sodium	1.0	45.6	46.6
5	Methyl Paraben	1.0	21.8	4.4

6	Propyl Paraben			1.3
7	Sodium Methyl Paraben			11.5
8	Sodium Propyl Paraben			5.6
9	Sodium Stearyl Fumarate	Nil	3.9	3.9
10	Polacrillin Potassium	Nil	8.9	8.9
11	Polyoxyl Hydrogenated Castor Oil	Nil	5.8	5.8
	Total	8.0	197.5	205.5

Total plot area is 3177 sq. m & unit has proposed 1047 sq m area for the green belt development/Tree plantation. Expected project cost is Rs. 1.1 Crores.

Aerial distance of nearest residential area is @ 3 km from the project site. This site is located at a distance @ 6.50 km from the boundary of Throl Sanctuary. PP has obtained NOC from the CCF, Forest department, GoG. Fresh water requirement after proposed expansion will be increased from 3.3 KL/day to 22.6 KL/day (1.25 KL Domestic, 15.9 KL Industrial & 5.4 KL Gardening). Unit has proposed to reuse 2.2 KL/day of treated waste water. Hence, fresh water requirement will be 20.4 KL/day, which will be sourced from the Bore well. Wastewater generation after the expansion will be increased from 1.06 KL/day to 3.4 KL/day [2.4 KL/day industrial + 1 KL/day domestic]. Industrial waste water to be generated will be from Boiler blow down, Cooling tower purge, washing and process. Unit has proposed primary ETP for treatment of industrial waste water. Unit has proposed to reuse waste water after treatment. Domestic waste water (1 KL/day) will be disposed off into septic tank/soak pit system. Unit has proposed one steam boiler (1 TPH) and one HAG (10 Lac Kcal/Hr). White coal/Saw mill wooden chips (22 MT/day) will be used as fuel for Boilers and HAG. Multi Cyclone separator will be provided as APCM for Boilers and HAG. Hazardous waste to be generated are ETP waste (3.6 MT + 5.4 MT = 9 MT/ Year), Discarded containers (6 MT + 64 MT = 70 MT/Year), Used Oil (NIL + 0.12 MT = 0.12 MT/Year), Process waste (0.3 MT+ 140.7 MT = 141 MT/Year). ETP waste & Process waste will be disposed off at the nearby common TSDF. 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. During the meeting, Committee observed that fuel consumption proposed for expansion is not in the line with the proposed production. Committee asked to submit technical justification in this regard. While reviewing the additional information submitted, document it is found that the details pertains to waste water generation, flue gas, fugitive emissions, hazardous waste etc. is not addressed properly. After detailed deliberations the Committee sought following additional information for further consideration of the proposal:

1. Justification with technical details for quantity of fuel to be used for Boilers and HAG. Give separate quantity of fuel to be used for Boilers and HAG.
2. Flue gas emission rate from each utility. Air Pollution Control Measures proposed to each of the utility along with its adequacy. List the sources of fugitive emission along with its quantification and proposed measures to control it.
3. Fugitive emissions to be generated from the Pulveriser and mitigation measures proposed. Give schematic diagram of pulveriser with APCM system.

4. Product wise and Stream wise qualitative & quantitative analysis of each waste stream (including process water, cooling tower blow down, boiler blow down, washing effluent etc.) to be generated. Give segregation scheme at source. 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.
5. Being an expansion project, compliance of MoEF circulars vide No: J-11011/618/2010-IAII(I) dated 30/05/2012 and J-11013/41/2006-IA-II(I) dated 20/10/2009.
6. Copies of XGN generated Inspection reports with analysis reports of the water/Air/Hazardous samples collected by GPCB (Last 2 years). Copies of instructions issued by GPCB in last 2 years and point wise compliance thereof.
7. Details of authorised recyclers for disposal of discarded containers.

16.	SIA/GJ/IND2/16104/2011	M/s: Dev Impex , Plot no. 108/7, Ravi Industrial Estate, Vill. Bileshwarpura, Ta. Kalol, Dist. Gandhinagar.	EC Amendment
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Project / Activity No.: 5(f)

- M/s: Dev Impex (herein after Project Proponent – PP) has submitted application vide their online proposal no. SIA/GJ/IND2/16104/2011 dated 10/06/2016 for EC amendment.

Project status: Existing

Project / Activity Details:

This is an existing Synthetic Organic Chemical manufacturing unit which was accorded Environmental Clearance vide letter no. SEIAA/GUJ/EC/5(f)/48/2011 dated 04/04/2011. Environmental Clearance was granted with a condition to use LDO – 400 Liters per Month shall be used as fuel in the two no.s of Boilers.

The project proponent applied for amendment in Environmental Clearance order dated 04/04/2011 with respect to the change in fuel from LDO to Wood – 15 MT/Month for two no.s of Steam Boiler. The request was considered during the meeting and it was presented that the EC was granted for LDO as fuel for Boilers. Now, they intend to change fuel as wood for their boilers. PP informed that LDO is more costly than wood. PP informed that now they will install Cyclone separator as APCM with Boilers.

While discussing about the justification for change in fuel, PP informed that energy is one of the vital cost factors in cost of production and they need to change fuel from LDO to wood to survive in present recessionary as well as competitive market condition. Committee asked to use Bio-coal as a fuel in place of wood, which was agreed to by the project proponent. During the meeting, after detailed discussion on the matter, It was decided to further consideration of the project only after submission of the following:

1. Detailed justification for proposed change in fuel along with the supporting authentic documents. Give exact quantity of proposed fuel in comparison with existing granted quantity considering CV of the existing fuel.
2. Specific details on (i) Type, quantity and quality (CV, Sulphur content, Ash content, etc,) of coal to be used (iii) Flue gas emission details (iv) Air pollution Control Measures along with its adequacy to achieve the GPCB Norms. (v) List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it.

3.	Base line status of ambient air quality for assessing change in ambient air quality.		
4.	Prediction of likely impacts on ambient air quality due to change of fuel by use of modeling. Air quality modeling to be carried out considering the worst case scenario partial and complete failure of the APCM. 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.		
5.	A detailed EMP including the protection and mitigation measures for the impacts on human health and environment due to this proposed change as well as detailed monitoring plan including fly ash management plan.		
17.	SIA/GJ/IND2/10624/2016	M/s: Nebula Pharma LLP, 60, Vill. Ankhhol, Ta. Kadi, Dist. Mehsana.	Screening & Scoping
Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.			
18.	SIA/GJ/IND2/11329/2015	M/s: Heni Drugs Pvt Ltd., Plot No.1901/1901A, GiDC,Sarigam, Umargam,Valsad.	Screening & Scoping
Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.			
19.	SIA/GJ/IND2/16818/2015	M/s: Hindustan Speciality Chemicals Ltd., Plot No:830, Jhagadia GIDC, Jhagadia, Bharuch	Screening & Scoping
Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.			
20.	SIA/GJ/IND2/16896/2015	M/s: Eshyasi Pharma Ltd. S.No.590-A and 592-A, Luna, Padra, Vadodara	Screening & Scoping
Project proponent remained absent for the above proposal. After deliberation, committee decided to defer the proposal in one of the upcoming SEAC meeting for further consideration.			
<p>The additional information received from the project proponents, which was sought during various SEAC meetings for granting Environmental Clearance to the projects. The said submissions by the project proponents 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.</p> <ol style="list-style-type: none"> 1. M/s. Sodium Metal Pvt. Ltd., Plot no.21, GIDC-Nandesari, Dist.: Vadodara. 2. M/s. Bharat Dye Chem., Plot no. : 125/2, Ravi industrial estate, Village : Bileshwarpura, Ta – Kalol, DIST – Gandhinagar. 3. M/s. Grasim Industries Ltd., Plot no:1, GIDC Industrial Estate, Vilayat, Dist.: Bharuch. 4. Mukhyamantri Gruh Yojana (Low Income Group scheme.), T.P.S.No.1, F.P.No.145, 			

Village: Harni, Taluka & District: Vadodara.

5. Residential building construction project at S.No.358, F.P.No.188, T.P.S.No.43, at Sola, Ahmedabad city west, Ahmedabad proposed by Mr. Ranchhodbhai Khodidas.
6. Rajhans synfonia, T. P. S. No: 26 (Abhava), Block No: 399/P-2, O.P.No:99, F.P.No: 99, Moje-Abhava, Surat.

Project proponent submitted the details vide their letter dated 08/08/2016 which was sought during the meeting held on 10/02/2016. The committee found that the project proponent obtained permission from Urban Development & Urban Housing Department for ground coverage of 5,467.48 m² & FSI area of 65,877.78 m² against the proposed FSI area of 67,285.56 m². As the details submitted by the project proponent was found satisfactory, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance with the following specific condition:

“The project proponent shall obtain permission from the concerned competent authority for the proposed FSI area of 67,285.56 m² after paying necessary charges as mentioned in the order dated 02/08/2016 of the Urban Development & Urban Housing Department, Gandhinagar. Construction work for the proposed project shall be commenced only after obtaining permission from the concerned competent authority for the proposed FSI area of 67,285.56 m².”

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.	Dr. V. K. Jain, Member, SEAC	
4.	Dr. Mayuri Pandya, Member, SEAC	
5.	Hardik Shah, IAS, Member secretary, SEAC.	