Minutes of the 290th meeting of the State Level Expert Appraisal Committee held on 07/05/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 290th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 7th May, 2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar. Following members attended the meeting:

- 1. Shri T. P. Singh, Chairman, SEAC.
- 2. Shri V. C. Soni, Vice Chairman, SEAC.
- 3. Shri R. J. Shah, Member, SEAC.
- 4. Dr. V. K. Jain, Member, SEAC.
- 5. Shri V.N. Patel, Member, SEAC.
- 6. Shri Natrajan Pratap, Member, SEAC.
- 7. Shri Hardik Shah, Secretary, SEAC

The agenda of TOR/Scoping/Category 8 (a) cases, Appraisal & EC amendment cases was taken up. Nine (9) cases of TOR/Scoping/Category 8 (a), Five (5) cases of Appraisal were 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.

	City Centre – 2 by M/s Jas Infra Con LLP.	F.P. No. 21 & 27, T.P.S. No. 18 (Sarangpur), Village: Rajpur – Hirpur, District: Ahmedabad.	Appraisal case.
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The SEIAA, Gujarat has accorded environmental clearance to M/s Pushpa Commercial & Housing Co-Op. Soc. Ltd. for the commercial building construction project at F.P. No. 21,22 & 27, T.P.S. No. 18 (Sarangpur), Village: Rajpur – Hirpur, District: Ahmedabad vide order no. SEIAA/GUJ/EC/ 8(a)/77/2008 dated 19/07/2008 for the built up area of 54,895.0 m² comprising of 148 flats & 136 shops.

The project proponent in the name of M/s Jas Infra Con LLP vide their letter dated 06/11/2015 & online proposal no. SIA/GJ/NCP/33002/2015 dated 03/12/2015 requested for amendment of Environmental Clearance order dated 19/07/2008 for the proposed expansion of the project and change in the name of project from '10 Acres Mall – The Ahmedabad City Mall' to 'City Centre 2'.

The request for amendment in terms of proposed changes & expansion was considered during the meeting of SEAC held on 10/02/2016.

During the meeting held on 10/02/2016, it was presented that none of the 92 nos. of existing trees will be cut for the proposed changes in terms of expansion. Parking space of 28,824.54 m² [19,353.60 m² in basement with mechanical parking + 9,470.0 m² as open surface parking] equivalent to 1622 CPS will be provided against the parking requirement of 1613 CPS as per the NBC norms. A D.G.Set of 62.5 KVA will be provided as power back up arrangement. Traffic survey carried out on 18 m wide Rakhiyal – Sarangpur road shows that the Level of Service of the road will remain the same as poor "E" in existing & proposed scenarios. While asking by the committee, it was replied that out of the total 4 buildings, 2 buildings of ground floor + 2 floors have already been constructed whereas construction of the remaining 2 buildings of ground floor + 4 floors

has yet not been initiated. One of the two remaining buildings comprising of 3 blocks will be provided with 14 nos. of staircases and the other building with 2 blocks will be provided with 10 nos. of staircases. During the meeting, after detailed discussion, it was decided to further appraise the project only after submission of the following:

- 1. Justification for the proposed changes in terms of the expansion along with the supporting documents / permission from the concerned authority in this regard.
- 2. NOC from M/s Pushpa Commercial & Housing Co-Op. Soc. Ltd. for transferring the Environmental Clearance in the name of M/s Jas Infra Con LLP.
- 3. Details of fire fighting system including location of fire water tanks & capacity, separate power system for fire fighting, automatic sprinkler system, fire detection system with alarms & automatic fire extinguishers, location of fire lift and fire retardant staircases, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site, emergency evacuation plan etc. Calculation and provision of minimum fire water requirement based on fire study.
- 4. Explore the possibility of increasing the parking area provision for the project and revised details on the same with back up calculations & parking plans.
- 5. Certificate from a structural engineer stating that the foundation of the remaining 2 building is capable of bearing the load of G+4 stories which was G+1 floor as per the Environmental Clearance granted.
- 6. Details on the staircases provided in the buildings already constructed.
- 7. Compliance report of the conditions stipulated in the Environmental Clearance order dated 19/07/2008.
- 8. Proposal for providing STP for treatment of sewage to be generated during the operation phase. Details of the Sewage Treatment Plant including its capacity, size of each unit, retention time and other technical parameters. Quality of treated sewage and application wise break-up of treated sewage quantity to be recycled / reused in flushing & green belt development, its location on the layout plan etc.
- 9. Revised water balance details considering the reuse of treated sewage for purposes like flushing, gardening etc. within premises.
- 10. Complete details on the mechanical parking to be provided.
- 11. Land possession documents showing ownership of the M/s Jas Infra Con LLP for the proposed project.

Project proponent submitted the above mentioned details vide their letter dated 21/04/2016. They have submitted copies of commencement letter obtained from Ahmedabad Municipal Corporation for built up area of 82,744.62 m² comprising of 1113 nos. of commercial units. NOC from M/s Pushpa Commercial & Housing Co-Op. Soc. Ltd. for transferring the Environmental Clearance in the name of M/s Jas Infra Con LLP has been submitted. As per the plan showing fire fighting installations submitted by them, fire extinguishers (DCP & CO₂ type), fire hydrant, wet riser, fire sprinklers in entire building, overhead static fire water storage tank, underground static fire water storage tank of 200 KL capacity etc. will be provided. Certificate from a structural engineer stating that the building design is safe for basement + ground floor + 4 floors. It is proposed to provide 2 staircases in block A, 2 staircases in block B & D, 4 staircases in block I, 9 staircases in block G, 6 staircases in block E and 4 staircases in block F. Compliance report of the conditions stipulated in the Environmental Clearance order dated 19/07/2008 and details of proposed mechanical parking has been submitted. Village form no. 7 & 12 and N.A order submitted by them shows that the N.A land for commercial use is in the name of M/s Pushpa Commercial & Housing Co-Op. Soc. Ltd., who have entered

into the agreement with M/s Jas Infracon LLP for development of the proposed project. It is proposed to provide STP of 300 KL/day capacity for treatment of sewage to be generated during the operation phase of the project. Total water requirement during the operation phase of the project will be 345 KL/day, from which fresh water requirement of 295 KL/day will be met through water supply from Ahmedabad Municipal Corporation (AMC) and remaining water requirement of 50 KL/day for flushing & gardening will be met through treated sewage. Remaining quantity of treated sewage will be discharged into the drainage line of AMC.

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

Salient features of the project are as under:

Description	Details as per EC granted.	Details of the project after proposed changes.
Name Of The Project	10 Acres Mall – The Ahmedabad City Mall	City Centre -2
Name Of The Developer	Pushpa Commercial & Housing Co- Op. Soc. Ltd.	Jas Infra Con LLP
Location Address	F.P. No. 21,22 & 27, T.P.S. No. 18 (Sarangpur), Village: Rajpur – Hirpur, District: Ahmedabad.	F.P. No. 21 & 27, T.P.S. No. 18 (Sarangpur), Village: Rajpur – Hirpur, District: Ahmedabad.
Plot Area (sq. m.)	34,877.12	35,346.32
Built - Up Area (sq. m.)	54,895.0	89,634.03
FSI Area (sq. m.)	34,929.34	61,943.23
Number of Building blocks	4 buildings with 7 blocks	4 buildings with 7 blocks
Number Of Units	548	1129
No. of Floors	2 buildings – B +G+2 floors and 2 buildings – B +G+1 floor.	2 buildings – B +G+2 floors and 2 buildings – B +G+4 floors.
Water Requirement (KL/day)	200.0	Total water requirement- 345.0 Fresh water requirement – 295.0 Reuse of treated sewage – 50.0
Waste Water Generation (KL/day)	160.0	271.0 It will be treated in the proposed onsite STP. Treated sewage will be discharged into the drainage line of AMC after reusing it for gardening & flushing purpose within premises.
Municipal Solid Waste Generation (Kg/day)	1,066.0	1,792.0
Total Green Belt Area (sq. m.)	2,500.0	2,500.0
Tree Covered Area (sq. m.)	915.0	915.0
Lawn Covered Area (sq. m.)	1,585.0	1,585.0

During the meeting, it was observed that they have submitted commencement letters obtained from AMC for

built up area of 82,744.62 m² comprising of 1113 nos. of commercial units whereas the proposed built up area of the project is 89,634.03 m² compring of 1129 commercial units. After detailed discussion, it was decided to consider the project only after submission of the following:

- 1. Copy of permission obtained from the concerned competent authority for the proposed FSI & built up area of the project comprising of 1129 nos. of commercial units.
- 2. Revised details with increased parking area provision for the proposed commercial project as per requirement of the NBC norms.

2.	Mahavir Enterprise	T.P.S.No.7 (Anjana Farm), F.P.No.116, S.No.9, O.P.No.36/1, at Anjana, Dist.	Appraisal case.
		Surat.	

The SEIAA, Gujarat has accorded environmental clearance to M/s Mahavir Enterprise for the commercial building construction project at T.P.S.No.7 (Anjana Farm), F.P.No.116, S.No.9, O.P.No.36/1, at Anjana, Dist. Surat vide order no. SEIAA/GUJ/EC/8(a)/203/2012 dated 27/07/2012 for the built up area of 28,088.19 m².

Now, the project proponent vide proposal no.SIA/GJ/NCP/2842/2015 dated 06/10/2015 requested for amendment of Environmental Clearance order dated 27/07/2012 for the proposed expansion.

The request for amendment in terms of proposed expansion was considered during the meeting of SEAC held on 29/12/2015.

During the meeting held on 29/12/2015, it was presented that they have obtained NOC from Airports Authority of India for permissible building height of 51.84 m above the ground level. Underground fire water storage tank of 100 KL, overhead tank of 12 KL, 2 nos. of CO₂ type & 2 nos. of DCP type fire extinguishers on each floor, 2 nos. of DCP type fire extinguishers of 50 kg capacity near electric panel, fire alarm call points with sounders on each floor, automatic sprinkler system, hose reel, fire hydrant, wet riser etc. will be provided as fire fighting facilities. The nearest fire station at Maan Darwaja is at a distance of 1 km from the project site and a fire tender will take about 15 minutes to reach the project site in case of emergency. Energy conservation measures proposed are CFL lighting fixtures & low voltage lightings in common areas, maximum use of natural lighting & ventilation through proper building orientation, use of energy efficient electrical appliances etc. The project proponent suggested to make use of solar energy in the form of solar lights, solar hot water system, solar panels etc. 3 staircases, each of 2.0 m width will be provided in the proposed commercial building. While asking by the committee, it was presented that separate sanitary blocks for male & female as well as drinking water facility will be provided at each floor. During the meeting after detailed discussion, it was decided to further appraise the project only after submission of the following:

- 1. Justification for the proposed expansion and permission of the concerned authority for additional FSI available to the project.
- 2. Certificate from a structural engineer stating that the foundation & design of the building is capable to bear the load of 8 floors.
- 3. Explore the possibility of increasing the parking area provision for the project and realistic details on the parking area provision based on the actual parking area available in the basement.
- 4. Height of the proposed commercial building to come up.
- 5. Details on provision of natural ventilation, lighting arrangements, CO sensors etc. in basement.
- 6. Detailed traffic study & traffic management plan considering the floating and fixed population including visitors as well as existing traffic density on adjacent road during peak hours, projected increase in traffic

density in operation phase of the project, carrying capacity of the existing roads, its adequacy during operation phase of the project and the measures to avoid the traffic congestion in the interior as well as the exterior roads.

- 7. Undertaking stating that no any kind of manufacturing activity shall be allowed in the commercial units of the proposed project and any commercial unit shall not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.
- 8. Specifications of the flame proof electrical fittings to be installed.
- 9. Calculation and provision of minimum fire water requirement based on fire study.

Project proponent submitted the above mentioned details, undertaking and specifications of flame proof electrical fittings vide their letter dated 15/03/2016. Project proponent along with their expert / consultant attended the meeting for further appraisal of the project.

Project was appraised based on the details submitted by them as well as facts presented before the committee.

It was presented that they have obtained a permission from Urban Development & Urban Housing Department for the proposed FSI of 3.47 & ground coverage of 42.54% and a copy of order dated 05/02/2015 from Urban Development & Urban Housing Department has been submitted. Copy of structural engineer stating that all the buildings of the proposed project are designed for 2 level basement + ground floor + eight floors. Parking area provision for the project will be 17,827.39 m² [12,414.07 m² in two level basement + 3,649.49 m² as mechanical parking in 2nd level basement + 1,025.42 m² as open surface parking + 738.41 m² as ground floor covered parking] equivalent to 571 CPS against the parking requirement of 559 CPS as per the NBC norms. Maximum building height in the project will be 43.92 m. Plans showing provision of CO sensors, air cut outs and ceiling points in the basement has been submitted. Traffic survey carried out on 24 m wide road during the peak hours shows that the Level of Service of the road in existing scenario is poor 'E' and it will remain the same as poor 'E' in the proposed scenario. It was presented that 2 nos. of underground static fire water storage tanks (75 KL x 2 nos.) and an overhead fire water storage tank of 35 KL capacity will be provided.

Salient features as per the previous and the revised project details are tabulated below:

Description	As per Environment Clearance	Expansion and Modification
Name of the project	"HTC HI-TECH Textile Centre"	"HTC HI-TECH Textile Centre"
Plot area (sq. m.)	8,078.0	8,078.0
Ground Coverage (sq. m.)		3,434.85
Built – up area (sq. m.)	28,088.19	44,988.90
FSI area (sq.m.)		27,956.05
Basement area (sq. m.)	7,843.39	13,681.40
Number of buildings	1 building	1 building
Number of Units	159 shops	256 shops
No. of floors	2 level basement + ground floor +	2 level basement + ground floor + 8
	7 floors.	floors.
Parking requirement as per	364 CPS	559 CPS
NBC		
Parking area provided (m ²)	Total Area – 8,651.95 m ²	Total Area – 17,827.39 m ²
	[3,904.04 m ² in lower basement +	[12,414.07 m ² in two level
	3,939.35 m ² in upper basement	basement + 3,649.49 m ² as
	and 807.96 m ² as open surface	mechanical parking in 2 nd level
	parking]	basement + 1,025.42 m ² as open

	Total – 388 CPS	surface parking + 738.41 m ² as ground floor covered parking] Total – 571 CPS
Provision of D.G. Sets.		2 × 50 KVA
Water requirement (KL/day) & Source	123.25 & water supply from SMC	175.0 & water supply from SMC
Waste water generation & mode of disposal	96.0 & sewer line of SMC	135.0 & sewer line of SMC.
Municipal Solid Waste generation (Kg/day)	397.5	615.0
Tree covered area (m ²)	600.0	600.0

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

3.	Dandi – The Leisure &	Block No. 610, 612, 620, 630, 632, 634,	Appraisal case.
	Entertainment World	644, 649, 652, 655, 657, - A, 657 - B,	
		664 To 666, 668, 670, 672, 674 to 687,	
		690, 691, 692, 696, 697, Village: Dandi,	
		Ta: Jalalpore, Dist: Navsari.	

The project was earlier taken up in the meeting of SEAC held on 17/02/2016. During the meeting held on 17/02/2016, it was found that the project site is adjacent to the Mahatma Gandhi Museum. After detailed discussion, it was decided to appraise the project further only after satisfactory submission of certain additional information regarding the project.

Project proponent submitted the details to this office on 27/04/2016 which was sought during the meeting of SEAC held on 17/02/2016.

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

A copy of CRZ map, prepared by the Institute of Remote Sensing, Anna University, Chennai, has been submitted. The boundaries / facilities of the proposed project are superimposed on the CRZ map and also indicating the proposed project location on it. Map submitted by them shows that the proposed project is located between HTL & 500 m distance from HTL on landward side. It is proposed to provide parking space, temporary structure of canteen, tennis & volleyball court, party lawn, swimming pool and seating area between HTL & 200 m distance from HTL on landward side. Proposed villas, hotel rooms, club house will be constructed between the 200 m distance & 500 m distance from HTL on landward side. It was presented that application for obtaining CRZ clearance along the comprehensive EIA report has been submitted to GCZMA. It was observed that the proposed project location falls within the boundaries of Eco Sensitive Zone (ESZ) of Dandi. It was presented that the proposed tourism activity is a permissible activity within the ESZ of Dandi. The company has registered itself under the Gujarat Tourism Policy 2015-2020 and a copy of registration certificate has been submitted. The company has entered into Memorandum of Understanding with Government of Gujarat for the proposed development of tourism project under Vibrant Gujarat Summit 2015. Source of water during construction & operation phase will be sweet water lake constructed by them with the permission from Dandi Gram panchayat. Copy of permission from Dandi grampanchayat in this regard has been submitted. It was mentioned that a village road is passing through the project site and the access of this road will not be obstructed. Energy conservation measures like maximum use of natural light & ventilation through architectural design, roof top thermal insulation, white tiles on terrace floor to reduce heat, solar based LED lights in landscaped areas & drive ways, LED lighting fixtures in common areas etc.

will be implemented. Fire fighting facilities like fire extinguishers, automatic sprinkler system, underground water tanks, down comer with hose reel & dry riser, smoke & heat alarm etc. will be provided.

It was presented that they have acquired one more adjacent plot i.e Block no. 690 admeasuring 15,277.0 m² for development of the proposed project. Total plot area of the project, after inclusion of the B.No. 690, will be 1,39,764.0 m² and built up area of the project will be 29,805.85 m² instead of 1,24,487.0 m² plot area & 27,238.88 m² built up area respectively as proposed while applying for obtaining Environmental Clearance.

Salient Features of the project are as under:

Sr.No	Particulars	Details	Details		
1.	Proposal isfor	New Project[SIA/GJ/NCP/33007/2015]			
2.	Type ofProject	Proposed Construction Project			
3.	Project / Activity No. [8(a) or8(b)]	8(a)			
4.	Name of the project	Dandi – T	he Leisure &Enterta	inment World	
5.	Name of Developer	Hitarth De	evelopers		
6.	Estimated Project Cost (Rs. InCrores)	Rs. 485.9	Rs. 485.93 crores		
7.	Whether construction work has been initiated at site? If yes, detailsthereof	No			
8.	ProjectDetails		T	T	1
		Sr.No.	Title	Details	
		1.	Plot / Land Area	1,39,764.0 m ²	
		2.	Built-Up Area	29,805.85 m ²	
		3.	FSI Area	21,017.20 m ²	
		4.	Ground Coverage	20,633.81 m ²	
		5.	Basement Area		
		6.	Hollow Plinth Area		
		7.	Parking Area	9,689.78 m ²	
		8.	Greenbelt Area	64,250.55 m ²	
9.	Building Details	Buildings for Museum, Ticket counter, Aquarium, Indoor games-gym-spa, Children day care, Amphitheater, Cafeteria, Paddle boating, Administration, Club house with swimming pool for villas, 2 nos. of banquet halls are of ground floor only. Buildings accommodating villas, studio apartments, club house for studio houses and service staff will be of Ground floor + 1 floor.			
10.	No. of expected residents / users	4500 Nos. including visitors, service staff & villa			

11.	Water & waste water details during construction phase	 Source of water: Sweet Water Lake Water requirement(KL/day): 10.0 Waste water generation quantity(KL/day): 3.60 Mode of disposal: Soak Pit 	
12.	Water & waste water details during operation phase	 Mode of disposal: Soak Pit Total water requirement (KL/day): 1,240.0 Fresh water requirement (KL/day): 496.0 Source of water: sweet water lake. Waste water generation quantity (KL/day): 930.0 Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be completely used for gardening & flushing purpose within premises. In case of STP provision, capacity of STP: Yes, 1000 KL/day STP Technology: conventional with biological treatment Purposes for treated water utilization: Gardening and flushing Quantity of treated water to be reused:1.Gardening (KL/day):310.0 2. Flushing (KL/day):434.0 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 completely used for gardening & flushing purpose within premises. A reservoir with 4 days retention capacity will be constructed with a cascade fountain to store the treated sewage during rainy season 	
		when treated sewage utilization for gardening purpose is not possible.Mode of disposal: as above.	
13.	Status of water supply and drainageline	 Source of water: Sweet Water Lake Treated sewage will be completely reused within premises. 	
14.	Solid waste Management	 During Construction Phase Estimated Qty. Generation: (100 x 600 gm/Person/Day) = 60 kg/day Separate bins shall be provided for collection of Municipal Solid Waste (MSW) at different places and the same shall be disposed off to Dandi Gram Panchayat where Municipal Solid Waste is being collected The Construction waste shall consist of construction debris along with cement bags, steel scrap, packing materials etc. Construction Debris shall be reused for back filling and internal road development. Steel scrap shall be sold to authorized recyclers. Cement bags, packing material, etc., shall be sold off to authorized recyclers. The Proposed Ground level is 0.15 m high than the existing level. Thus, it will require [1,24,487.00 m² X 0.15 m = 18,673.05 m³] extra earth to raise plot area. The said earth will be arranged from other site. The proposed building will be developed on open plain land, thus no major cutting will be required. The excavated earth will be used for back filling and green belt development. Top Soil will be used for Greenbelt development. 	

		During Operation Phase		
		Organic	Waste vegetables and food	
		waste		
		Inorganic	Papers, Cartons, Thermocol, Plastics, Polythene	
		waste		
			I Qty. Generation:	
			ential: 4,500 population including visitors, service	
		` '	illa x 600 g/person/d = 2,700.0 kg/d	
		Separate l	pins shall be provided for collection of Municipal	
		Solid wast	e at ground floor at specific locations of the	
		proposed	project.	
		♣ The above	MSW shall be disposed off to Dandi Gram	
		Panchaya	t where Municipal Solid Waste is being collected,	
			d converted in to compost.	
		11	e will be collected, stored & will be used as manure	
		for greenb	elt development after appropriate treatment.	
15.	ParkingDetails		o provide minimum parking space of 9,689.78 m2 as open g which is equivalent to 421 CPS.	
16.	Traffic			
	Management			
	Building measures proposed.	Provision to install aerated coke (Foam Type) in wash basins, kitchen, low flush water closets in toilet and pressure reducing valves in water pipeline, rain water harvesting & ground water recharge, provision of STP & reuse of treated sewage, maximum use of natural light & ventilation through architectural design, roof top thermal insulation, white tiles on terrace floor to reduce heat, solar based LED lights in landscaped areas & drive ways, LED lighting fixtures in common areas etc.		
18.	Energy Requirement, Source and Conservation	 Power supply: Maximum demand: 4000 KVA Connected load: Source: Dakshin Gujarat Vij Company Limited (DGVCL). DG Sets: No. and capacity of the DG sets: 1 x 1500 KVA & 1 x 2500 KVA Fuel & its quantity: HSD, 300 litre/hr 		
		 Energy Conservation measures Maximum use of natural light is an integral part of the architectural design. Thermal insulation shall be provided on roof top to conserve energy. Proper orientation of buildings shall be done to get maximum advantage of natural ventilation, wind direction and light. White Tiles shall be used on terrace floor to reduce heat. Solar based LED lights shall be used in landscaped and drive way 		
		 areas. The poles can be arranged either on one side of the road or in a staggered manner. Bollard LED light shall be used in walk way areas. LED/CFL lighting fixtures shall be used in the common areas for energy 		

		saving. • Appropriate design to shut out excess heat and maintain indoor air quality.
19.	Fire and Life Safety Measures	Distance of the nearest fire station located near Dudhiya Talav in Navsari City is @ 15.50 km in NE direction from the proposed project site and it will take 30 min. to reach the proposed project site in case of any emergencies. Fire fighting facilities like fire extinguishers, automatic sprinkler system, underground water tanks, down comer with hose reel & dry riser, smoke & heat alarm etc. will be provided.
20.	Details on staircase	
21.	Rain Water Harvesting (RWH)	Ground water recharge of about 23,106 m³ will be achieved through roof top & surface runoff rain water harvesting within premises.
22.	Green area details	 Tree covered area (m²):4,568.0 Area covered by shrubs and bushes (m²): Included in lawn covered area. Lawn covered area (m²):70,019.70 Total Green Area (m²): 74,587.70 Green Area % of plot area: 60% No. of trees and species to be planted: 1500 trees of Ashoka, Banyan, Babool, Mango tree, Paras pipal, Saru, Coconut, Goras ambli, Jamun etc.
23.	Budgetary allocation for Environmental Management Plan (Rs. inlacs)	Rs. 2 – 3 Crores.
24.	Proposed dust control measures during the construction phase	 Sprinkling of water for dust suppression. To avoid dust emission, excavated soil & construction debris shall be sprinkled with water and kept moist. Construction material storage area shall be covered with tarpaulin sheets. Trucks used for transportation of construction material shall be covered to avoid dust dispersion at site. Personal Protective Equipment shall be provided. Project site boundary shall be barricaded with sheet of 15 ft height.
25.	Eco friendly building material usage details.	Fly ash bricks, aerated blocks, paving blocks, RMC, lead free paints etc.
26.	Facilities for construction workers	Drinking water, sanitation facilities, sewage disposal facility, first aid box, free medicines, doctor service etc.

During the meeting, the project proponent was asked strictly adhere to the provisions of CRZ Notification 2011 as well as the guidelines attached with the Notification at annexure III. During the meeting, after

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

- 1. Revised Form I & Form 1A for the proposed increase in plot area & built up area of the project.
- 2. Land owner ship documents showing ownership of the land by the project proponent of newly purchased Block number 690.
- 3. Copy of CRZ recommendation for the proposed project obtained from Gujarat Coastal Zone Management Authority.
- 4. Copy of permission obtained from concerned competent authority for setting up of the proposed tourism / entertainment project within the Eco Sensitive Zone of Dandi.

4.	"Dev Heritage" proposed by	at R. S. No. 3119, 3121/P, 3124/P,	Appraisal case
	M/s. Ashirwad Corporation.	3125/2/P, 3125/3/P, 3125/4/P, 3129/1,	
		3129/2, 3129/3/P, 3130, 3131,	
		Kakarkhad, Tehsil & Dist.: Nadiad.	

The project proponent was called for presentation and discussion in the meeting of SEAC held on 31/03/2016. During the meeting of SEAC held on 31/03/2016, it was found that they have submitted the details of the Environment Management Plan but not submitted the financial details of the same. After detailed discussion, it was decided to appraise the project further only after submission of the following:

- 1. Details on availability of water supply, drainage network & municipal solid waste collection facility in the area. Permission from Nadiad Nagarpalika for providing water supply, drainage connection and municipal solid waste collection facility to the proposed project.
- 2. Details of soil excavation / filling required for the project along with its quantification based on backup calculations. Details with respect to proposed use / disposal of excavated soil. Plan for management, use and disposal of construction debris including excavated materials during the construction phase. Details of top soil management plan during construction phase.
- Details with respect to the quantity of the generation of the garbage / municipal solid waste and plan for its collection, segregation and mode of its disposal, number of bins & community bins to be provided within premises etc.
- 4. Details of provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar water heater, solar street lighting, LED lighting. Measures proposed to comply with the ECBC norms for the proposed energy conservation.
- 5. Detailed green belt development plan including area of tree plantation, its demarcation on the map, number and types of trees and budget allocation thereof. Also provide the break-up of the greenbelt viz. the tree covered and lawn covered area within premises.
- 6. Details of the basic amenities and welfare facilities to be provided to the construction workers to ensure that they do not ruin the existing environment.
- 7. Strategy for implementation of the Environment Management Plan with financial outlay.
- 8. Details on the village cart track passing through the project site.

Project proponent submitted the above mentioned details vide their letter dated 27/04/2016.

The project proponent along with their expert / consultants attended the SEAC meeting and made presentation before the committee. During the meeting, the project was further appraised based on the

additional details submitted as well as facts presented before the committee.

During the meeting held on 07/05/2016, it was found that they have submitted a copy of commencement certificate obtained from Nadiad Nagarpalika showing that the water supply & drainage connection is available to the project. Details of top soil & excavated earth management plan, municipal solid waste generation & management plan, green belt development plan, details of the basic amenities to be provided to the construction workers and details of EMP with financial outlay has been submitted by them. It was mentioned that the project site is near to National Highway no. 8-A and any village cart track is not passing through the project site.

Salient features of the project are as under:

Sr. No.	Particulars	Details		
1.	Proposal is for	New project [SIA/GJ/NCP/42797/	[2016]	
2.	Type of Project	Residential	•	
3.	Project / Activity No. [8(a) or 8(b)]	8(a)		
4.	Name of the project	Dev Heritage		
5.	Name of Developer	M/s. Ashirwad Corporation		
6.	Estimated Project Cost (Rs. In Crores)	82 crores /-		
7.	Whether construction work has been initiated at site? If yes, details thereof	No		
8.	Project Details	 Land / Plot Area (m²): 37,920.0 FSI area (m²): 25,669.98 Total BUA (m²): 28,759.99 		
			Permissible	Proposed
		FSI Area (m ²)	45,504.0	25,669.98
		Ground Coverage (m ²)	13,651.08	10,591.48
		Common Plot Area (m ²)	3,792.0	3,792.30
		Max. building height (m)		10.2
9.	Building Details	 No. of Buildings: 171 bungalows Scope of building/blocks: 171 bungalows of Ground + 2 floors No. & size of Residential Units: 171 Nos. Bungalows No. & type of Commercial Units: NA Details of amenities if any: 		
10.	No. of expected residents / users	855 Nos. (171 Nos. Bungalows * 5 Person)		
11.	Water & waste	• Water requirement (KL/day): 11	.3	

	water details	Source of water	or: Borowell w	ator			
	during	Waste water g			(I /dov/): 5	50	
	construction	Mode of dispo	•	• .	• .	.50	
	phase	•	•		•		
12.	Water & waste	Details of reus Freeh water re					
12.	water details	Fresh water re	•	• .		\	_
	during	Source of water	• •	•		• .	d .
	operation	Waste water g	•	• .	• .		
	phase	 Mode of dispo 	sai: Through di	ramaç	ge line of r	nadiad inag	јагранка.
13.	Status of water	Water supply &	drainage conne	ection	of Nadiac	l Nagarnali	ka is available to the
10.	supply and	project	aramago comin	00.011	or riadiac	. Hagarpan	na io avallabio to tilo
	drainage line	ρ. ο , ο ο ι					
14.	Solid waste	Construction pha	ase:				
	Management		Generation	Qua	antity to	Mode of	Disposal / Reuse
			(m^3)	be r	eused		
				(m^3))		
		Top Soil	2,695.65	2,	,695.65	Reuse	for developing
			_			garden a	
		Other	6,289.87	6,	,289.87		reused for plinth
		excavated				filling.	
		earth	000.55	000		L MCII	
		Construction debris	898.55	898	.55	Will be reused for back filling / levelling, as a base of road	
		uebiis					
		Steel scrap	Whatsoever	Wha	atsoever	Will be reused or sold	
		Ctool colup	Trialoco vo.	****		77 20 704004 01 0014	
		Discarded	Whatsoever	Wha	atsoever	Will be reused or sold	
		packing					
		materials					
		On a ration Dhan					
		Operation Phase	Generation		Mode of	wooto	Mode of
		Type of waste		dav)	collection		Disposal / Reuse
		Municipal	Quantity (Kg/ 427.5	uay)	Collected		Collected by
		Solid waste	427.5			n the bins	Nadiad
		J John Waste			Storage	וו נווט טוווס	Nagarpalika
							ragarpainta
		Details of segr	egation if to be	done	e: No.		
		•	•			aced within	premises: 25 liter
			Bins to be place		- 1		
		•	•		imately di	sposed by	local authority: Nadiad
		Nagarpalika w	ill collect Munic	cipal S	Solid Wast	:e	·
15.	Parking	Total open surfa	ace parking spa	ace o	f 7,866.0 ı	m² equivale	ent to 342 CPS will be
	Details	•	•	•	• .		- 18.6 m ² in B type
		bungalows & 10	.3 - 15.6 m² in .	A type	e bungalov	ws will be p	provided.
16.	Traffic	Width of adjact	ent public road	le: No	tional high	NAV DO 9	
10.	Management	_	•		•	•	
	a.iagoinoin	Number of English	•				
		 Width of Entry 	•				
			•			•	easy access of fire
		tender (exclud	ing the width fo	or the	plantation) : 3 m	

		- Width of all internal reader 7.5 mg 0 mg 0.0 mg
4=	D . "	Width of all internal roads : 7.5 m, 9 m & 6 m.
17.	Details of Green Building measures proposed.	Use of transformers and motors having minimum efficiency of 85%, use of LED lights in the common area, use of light colors to reduce the light absorption and minimize the cooling requirement, solar street lights etc.
18.	Energy Requirement, Source and Conservation	 Power supply: MGVCL Maximum demand: 10 HP during construction phase and 465 HP during operation phase Connected load: 3 Phase Source: PGVCL Energy saving measures: Use of transformers and motors having minimum efficiency of 85%, use of LED lights in the common area, use of light colors to reduce the light absorption and minimize the cooling requirement, solar street lights etc. DG Sets: Not Proposed.
19.	Fire and Life Safety Measures	Fire extinguishers will be provided at various locations.
20.	Details on stairc	ase: One staircase will be provided in each individual bungalow.
21.	Rain Water Harvesting (RWH)	 Level of the Ground water table : No. & dimensions of RWH tank(s) : 10 Nos. No. and depth of percolations wells : 10 Nos. Details on Pre-treatment facilities :
22.	Green area details	 Tree covered area (m²): 2,274.0 Area covered by shrubs and bushes (m²): 359.1 Lawn covered area (m²): 1,159.2 Total Green Area (m²): 3,792.30 Green Area % of plot area: @ 10 % No. of trees and species to be planted: 569
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Amount of Rs. 7 lacs will be allocated for waste water management, rain water harvesting, water sprinkling system, air & noise management system, green belt area, provision of PPEs to the construction workers etc.
24.	Proposed dust control measures during the construction phase	Dust suppression by spraying of water, covered shed for cement unloading activity, PUC compulsion for all vehicles, construction activities will be restricted to daytime only, lubrication will be carried out for rotation machinery, barricading the project site etc.
25.	Eco friendly building material usage details.	Maximum use of RMC & fly ash bricks.
26.	Details on amenities to	Temporary shelter, temporary sanitary blocks, soak pit for sewage disposal,

	be provided to construction workers.	drinking water etc.
27.	Documents related to land possession.	N.A order for all the survey numbers of the project site obtained from Town Planning Department has been submitted & it shows that the land is in the name of Cema Electric Company P. Ltd., who has made sale deed with M/s Ashirwad Corporation for project site. Zoning certificate obtained from Nadiad Nagarpalika shows that the project site is falling under residential zone.

During the meeting, the project proponent was suggested to provide solar street lights, to which the project proponent was agreed & assured to provide solar street lights. After detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

5.	International Textile Market	T.P.S.No.: 61(Parvat-Godadara), Block No. 38 + 46, O.P. No.: 38+46, F.P.No.:	Screening & scoping
		38/B + 46, Moje: Parvat, Dist: Surat.	

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

Sr. No.	Particulars	Details	Details			
1.	Proposal is for	New Construction Project [SIA/	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 Project Cost (Rs. In Crores)	160 crore				
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction activity started				
8.	Project Details	 Land / Plot Area (m²): 19,59 FSI area (m²): 1,05,829.20 Total BUA (m²): 1,48,941.47 	3			
			Permissible	Proposed		
		FSI Area (m ²)	1,05,829.20	1,05,674.49		
		Ground Coverage (m ²)		10,467.31		
		Common Plot Area (m²)		1,959.80		
		Max. building height (m)		45.0		
9.	Building Details	 No. of Buildings: 1 Scope of buildings/blocks: 1 No. & size of Residential Units: No. & type of Commercial Units: 1602 Shops Details of amenities if any: 				
10.	No. of expected	3204				

	residents / users							
11.	Water & waste	Water require	ment (KL/day): 2	20.25				
	water details	•	er: Local water					
	during			tity (KL/day): 10.5	3			
	• Mode of disposal: Into septic tank & soak pit.							
	Details of reuse of water, if any: 4 KL/day for curing							
12.	Water & waste	Total water re	quirement (KL/d	lay): 189.18	-			
	water details	• Fresh water re	equirement (KL/	day): 79.08				
	during operation	Source of wat	er: Water supply	y from Surat Munic	cipal Corporation (SMC).			
	phase			, tity (KL/day): 160.0				
		``		, , ,	will be treated in the			
		<u> </u>	~	~	reused for gardening &			
		1		•	aining quantity of treated			
			•	o the drainage line	• .			
		•	•	acity of STP: 200 l				
		STP Technological STP Tec	• •	dony of 011 . 200 !	Lay.			
			•	utilization: Flushin	a and Cardenina			
			-	e reused:1.Garder	-			
		Qualitity of the	taled water to be		(KL/day):125			
		• Provision of d	ual plumbing ov	J	` ,			
				stem (Yes/No): Ye				
		 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						
10	0	Mode of disposal: as above SMC drainage line and water supply line is available at site						
13.	Status of water supply and	SMC drainage i	ine and water su	appiy line is availa	ble at site			
	drainage line							
14.	Solid waste	Construction Ph	nase:					
	Management		Generation	Quantity to be	Mode of Disposal /			
			(m^3)	reused (m ³)	Reuse			
		Top Soil	6,500	6,500	Greenbelt			
					development			
		Other	1,23,500	65,000	Internal roads and			
		I I						
		excavated			other paved area,			
		earth	450	250	back filling			
		earth Construction	450	350	back filling Back filling and			
		earth	450	350	back filling Back filling and internal road			
		earth Construction debris		350	back filling Back filling and internal road development			
		earth Construction debris Steel scrap	20		back filling Back filling and internal road development Sold to vendors			
		earth Construction debris			back filling Back filling and internal road development			
		earth Construction debris Steel scrap Discarded	20		back filling Back filling and internal road development Sold to vendors			
		earth Construction debris Steel scrap Discarded packing materials	20 15		back filling Back filling and internal road development Sold to vendors			
		earth Construction debris Steel scrap Discarded packing materials Remaining qua	20 15 ntity of excavat	 ted earth and cor	back filling Back filling and internal road development Sold to vendors Sold to vendors			
		earth Construction debris Steel scrap Discarded packing materials Remaining qua	20 15 ntity of excavat	ted earth and cor	back filling Back filling and internal road development Sold to vendors Sold to vendors struction debris will be			

		Operation Phase	j.		
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry & wet waste	1,200		Bio degradable waste will be disposed into nearby bins and non biodegradable waste will be sold to vendors
		waste & White	for bio degradable te.		
		3300 bins with • Landfill site wh	5 litre to 25 litre nere waste will b	capacity will be ultimately dis	ced within premises: Total e provided. posed by local authority: / landfill site of SMC.
15.	Parking Details	m ²	·		as per GDCR: 52,837.24 ts as per GDCR:
		 52,837.24 m² Total number of CPS requirement for the project as per NBC: 2113 CPS Number of CPS requirement for commercial units as per NBC: 2113 CPS 			
		Total Parking a CPS - 2179			2S: Area –68,583.63 m ² ,
		31,808.94 m ²	, CPS - 994		o. of CPS: Area – No. of CPS: CPS: Area –
		1,165.75 m ² , (• Parking area p	CPS - 42 provided as oper		No. of CPS: Area –
					in basement (m²) & No. of
16.	Traffic Management	provided	try & Exit provide	ed on approach	road/s: 2 gates will be
			n of open path a luding the width	Il around the bu	uildings for easy access of
17.	Details of Green Building measures proposed.	efficient motor and low voltage light thermal insulation	nd pumps, maxi ting, solar lighti n, ground wate	mum use of ae ng in open and r recharge thro	ural design, use of energy rated blocks, use of LED & I landscape areas, rooftop ugh rain water harvesting, for gardening & flushing

		within premises etc.					
18.	Energy Requirement, Source and Conservation	 Power supply: Maximum demand: 8500 KVA Connected load: Source: Daxin 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	 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.	Type & no. of buildings	No. of floors	Floor area	Floor Ht.	No. of staircase	Width of the	Travel distance
	1 building	B1 + B2 + G/P +	10,467.31	45.0	8	staircase 2.0	(m) 31
21.	Rain Water Harvesting (RWH)	 Level of the Ground No. & dimensions No. and depth of polynomial Details on Pre-tree 	of RWH tank percolations v	x(s) : wells : 5		Iter chambe	er
22.	Green area details	 Details on Pre-treatment facilities: Desilting cum filter chamber 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)		No. of trees and species to be planted: 400				
24.	Proposed dust control measures during	Dust suppression b site, covering the co	onstruction m	aterial o	• •	•	

	the construction phase	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.

During the meeting, 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:

- 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.

6.	Siddharth Icon	R.S. No 29/1,29/2, O.P. No 40/1,	Screening, scoping &
		F.P. No 40/1, T.P.S. No 65 (Tragad-	appraisal.

		Jagatpur-Chandk Ranip), Vill: Tra Dist.: Ahmedabad	gad, Tal.: Ghatlodiya	ι,			
Details of	f the proposed proje	ect as presented before the co	ommittee is tabulated	d below:			
Sr. No.	Particulars	Details					
1.	Proposal is for	New Project					
2.	Type of Project	Residential & Commercial	esidential & Commercial				
3.	Project / Activity No. [8(a) or 8(b)]	8(a)	3(a)				
4.	Name of the project	Siddharth Icon					
5.	Name of Developer	SNKJ Infra Projects Pvt. Ltd	l.				
6.	Estimated Project Cost (Rs. In Crores)	10 Crores					
7.	Whether construction work has been initiated at site? If yes, details thereof	No construction activity has been started					
8.	Project Details	 Land / Plot Area (m²): 5,706.0 FSI area (m²): 15,405.69 Total BUA (m²): 26,261.11 					
			Permissible	Proposed			
		FSI Area (m ²)	15,406.20	15,405.69			
		Ground Coverage (m ²)		2,803.75			
		Common Plot Area (m²)	570.60	571.01			
		Max. building height (m)	25.0	24.40			
9.	Building Details	 No. of Buildings: 4 No. of Blocks: 7 Scope of buildings/blocks: 2 residential buildings – basement + hollow plinth + 7 floors & 2 residential & commercial buildings – basement + ground floor (H.P. & S.P.) + 7 floors. No.& size of Residential Units: 192 units. 126 Units of 2 BHK Residential Flats of 69.73 m2 – 73.14 m2 66 Units of 3 BHK Residential Flats of 93.55 m2 - 93.64 m2 No. & type of Commercial Units: 14 Shops of 26.65 m2 – 45.56 m2 Details of amenities if any: 					
10.	No. of expected	Fixed population considered	d for the project: 988				
	residents /	Floating population conside	red for the project: 4	12			

	users							
11.	Water & waste	Water require	ment (KI /day):	20.0				
	water details	· •			Municipal Corporation			
	during	 Source of water: Water supply from Ahmedabad Municipal Corpo (AMC). 						
	construction • Waste water generation quantity (KL/day): 4.0							
	phase	_	•		Ahmadahad Muniainal			
	prido	Corporation (A	•	ii be discriarged to	Ahmedabad Municipal			
			,					
40	Motor 9 woote	Details of reus		<u> </u>				
12.	Water & waste water details							
		Source of water: Water supply from Ahmedabad Municipal Corporation						
	during operation phase	(AMC).		(121 / 1 .) 440 0				
	priase	_	•	tity (KL/day): 116.2				
		•		r generated will be	discharged to			
4.0	0		lunicipal Corpo	. ,				
13.	Status of water	Water supply &	drainage conne	ection of AMC are a	vailable in the area.			
	supply and							
14.	drainage line Solid waste	Construction Ph						
14.		Construction Fi	Generation	Quantity to be	Made of Diagonal /			
	Management		(m ³)	reused (m ³)	Mode of Disposal / Reuse			
		Top Soil	3,667	3,667	Will be completely			
		Top 30	3,007	3,007	reused for greenbelt			
					development.			
		Other	1,834	1,834	Completely utilized			
		excavated	1,004	1,004	for back filling, plinth			
		earth			filling & internal road			
		Construction	355	355	development			
		debris			do to to pinion			
		Steel scrap	840	840	Will be sold to			
		Discarded	1,834	1,834	recyclers / vendors.			
		packing	1,00	1,00	,			
		materials						
			<u> </u>					
		Operation Phas	e:					
		Type of	Generation	Mode of waste	Mode of Disposal /			
		waste	Quantity	collection	Reuse			
			(Kg/day)					
		Dry waste &	99.50	27 nos. of bins	The community			
		wet waste		of 80 lit. capacity	bins are regularly			
				will be provided	emptied by AMC.			
				at various				
				locations.				
		Details of seg	regation if to be	done: No.				
		Capacity and	no. of communi	ty bins to be placed	within premises:			
		27nos of hins	of 80 lit canaci	ties will be provided	d at various locations.			

		Landfill site where waste will be ultimately disposed by local authority:
15.	Parking Details	 AMC Landfill Area. Total parking area requirement for the project as per GDCR: 3,225.31m² Parking area requirement for residential units as per GDCR: 2,985.03 m² Parking area requirement for Commercial units as per GDCR: 240.28 m² Total number of CPS requirement for the project as per NBC: 139 Number of CPS requirement for residential units as per NBC: 129 Number of CPS requirement for commercial units as per NBC: 10 Total Parking area provided (m²) & No. of ECS: 7,451.57 m² & 265 CPS Parking area provided in basement (m²) & No. of ECS: 4,141.58 m² & 129 CPS Parking area provided in hollow plinth (m²) & No. of ECS: 2,398.0 m² & 85 CPS Parking area provided as open space (m²) & No. of ECS: 1,187.52 m² & 51 CPS.
 Traffic Management Number of Entry & Exit provided on approaprovided. Width of Entry & Exit provided on approach Minimum width of open path all around the 		 Width of adjacent public roads: 30 m Number of Entry & Exit provided on approach road/s: One gate will be provided. Width of Entry & Exit provided on approach road/s: 7.5 m Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4 m
17.	Details of Green Building measures proposed.	Solar lights in common sunlit areas, solar street lights, maximum use of CFL lights, use of variable frequency drive motors, rain water harvesting through ground water recharge etc.
18.	Energy Requirement, Source and Conservation	 Power supply: Maximum demand: 618 KW Connected load: Source: Torrent Power Limited Energy saving measures: Solar lights in common sunlit areas, solar street lights, maximum use of CFL lights, use of variable frequency drive motors, rain water harvesting through ground water recharge etc. D.G.Set: not proposed.
19.	Fire and Life Safety Measures	Fire extinguishers, hose reel, wet riser, yard hydrant, manually operated electric fire alarm system, automatic detection & alarm system, automatic sprinkler system in basement etc. will be provided during the operation phase.

20.	Details on staird	ase					
	Type & no. of buildings	No. of floors	Floor area	No. of staircase	Width of the staircase	Travel distance (m)	
	2 buildings	B+G+7	376.49	1	1.50 m	<30	
	1 building 1 building	B+H.P.+7 B+H.P.+7	588.02 827.51	3	1.50 m 1.50 m	<30 <30	
21.	Rain Water Harvesting (RWH)	Level ofNo. & diNo. and	the Groun mensions of depth of p	d water table: of RWH tank(s) ercolations we):		grease.
22.	Green area details	• Tree co • Area co • Lawn co • Total Gi • Green A	vered area vered by sl overed area reen Area (Area 10% o	(m²): 371.31 hrubs and bush a (m²): 479.23 r m²): 850.54 m² f plot area: 14. pecies to be pla	nes (m²): m² : 91 %		<u>J</u>
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)			·			
24.	Proposed dust control measures during the construction phase	height, co	mpaction o	f soil during co	ig, peripheral b nstruction phas sion for all the v	se, covering th	
25.	Eco friendly building materia usage details.	l carpentry particle b	structures oard instea	will be made	or pavements/ve up of procest VC electrical b	ssed engineer	ing wood/
26.	Details on amenities to be provided to construction workers.	Sanitation first aid fa		drinking water,	municipal solid	waste collecti	on facility,
27.	Documents related to land possession.	residentia		ercial use is in	by them show the name of S		

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

- 1. Copy of permission obtained from concerned competent authority or authentic supporting documents showing availability of the proposed FSI & ground coverage to the proposed project.
- 2. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.

7	Shaurya Organics Pvt. Ltd.	S.N.1459 P, Patdi, Ta.: Patdi,	Appraisal
		Dist.: Surendranagar	

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Shaurya Organics Pvt Ltd. (herein after Project Proponent PP) has submitted Application vide their letter dated 07/05/2015.
- This project was considered in the meeting of the SEAC held on 28/07/2015.
- Looking to the low pollution potential of the unit after deliberation on various aspects, the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information vide their letter dated 16/04/2016.

Project status: Expansion

Project / Activity Details:

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

Sr.no.	Name of Product		Quantity MT/Month	
		Existing	Proposed	Total after expansion
1.	1,3 Di-Bromo, Di-Chloro, 5-5 Di-Methyl Hydantoin	20	80	100
2.	1-Bromo/3-Chloro 5-5 Di- Methyl Hydantoin	10	10	20
3.	Magnesium Hydroxide	15		15
4.	Sodium Bromide solution	20	60	80
5.	Sodium Chloride	40	120	160

The project falls under the project activity 5(f) as per the schedule of EIA Notification 2006. Plot area is approx. 4560 sq.m. Unit has proposed 1550 sq. m area for green belt development. Estimated

cost of proposed expansion is Rs. 0.70 Crores. Water consumption will be increased from 3.5 KL/day to 23 KL/day (21 KL for Industrial, 1.5 KL for Domestic & 0.5 KL for Gardening). Fresh water requirement of 23 KL/day will be supplied by Patdi Nagarpalika or their own bore well. Domestic waste water (1.5 KL/day) will be disposed off into septic tank/soak pit system. Industrial waste water generation will be increased from 1 KL/day to 4.5 KL/day (1 KL from Boiler, 1 KL from Cooling & 1 KL from others). This waste water will be reused in process again. There will be no discharge of waste water from the proposed expansion. Unit has provided one steam boiler (1 TPH) and one HAG (6 Lac Kcal/hr). Wood (27 Kg/hr) is used as a fuel for Boiler and HAG. After proposed expansion, consumption of Agro waste/Briquettes of Bio coal/wood will be 50 Kg/hr. At present unit has provided water scrubbers & alkali scrubbers with 5 reaction vessels for process gaseous emissions like Ammonia, Chlorine & Bromine. Unit has proposed additional 3 reaction vessels as tabulated below:

Sr.	Vent attached to	Possible Pollutant	APCM	Common
No.				stack
				Height
Existi	ng			
1.	Reaction Vessel-1 & 2	Ammonia <175 mg/ Nm3	Water Scrubber	
2.	Reaction Vessel-3 & 4	Chlorine <9 mg/ Nm3	Alkali Scrubber	12 m
3.	Reaction Vessel-5	Bromine <2 mg/ Nm3	Alkali Scrubber	
Propo	sed			
4.	Reaction Vessel – 6	Alkali Scrubber	Alkali Scrubber	
5.	Reaction Vessel – 7 &	Alkali Scrubber	Alkali Scrubber	
	8			

Unit has proposed to install one DG set (120 KVA) as stand-by facility. HSD (20 Lit./hr) will be used as fuel fot DG set. Hazardous wastes to be generated are Discarded containers (60 MT/Year) and Used Oil (0.02 ltrs/Year). Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers. Generated Sodium bromide solution and Sodium chloride solution will be sold as by-products.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the wild ass sanctuary, PP informed that they do not know about the exact boundary of the wild ass sanctuary and its distance from the project site. Committee suggested to obtain No Objection Certificate from the forest department to which PP was agreed upon and informed that they will submit the same from concern authority. While reviewing the additional information submitted by PP, Committee observed that information regarding water balance and justification for reuse of waste streams are not properly addressed. Feasibility report for complete reuse of industrial waste water & ML without treatment is also not submitted. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

- 1. NOC / certificate from Forest Department regarding the exact aerial distance of the project site from the boundary of wild ass sanctuary and any other environmental sensitive area.
- 2. Clarification regarding exact source of water. Nagarpalika or your own bore well.
- 3. Clarification regarding total water consumption including reuse of 12 KL/day of waste water generated from Process, Cooling & Others.
- 4. Justification with technical details that generated industrial waste water from manufacturing process and any ancillary operations will be reused completely. Submit feasibility report in this regard.
- 5. Undertaking regarding use of Agro waste or Briquettes of Bio-Coal only as a fuel.

8	Naroda Enviro Projects	Survey No. 124, 125, 125/p & 132,	Screening &
	Limited	Village: Alva, Taluka: Dhansura, Dist: Aravalli.	Scoping

Project / Activity No.: 7 (d)

 M/s: Naroda Enviro Projects Limited (herein after Project Proponent – PP) submitted Application vide their vide online proposal no. SIA/GJ/MIS/11073/2016 dated 14/04/2016.

Project status: New

Project / Activity Details:

M/s.: Naroda Enviro Projects Limited has proposed to establish a TSDF site at Survey No. 124, 125, 125/p & 132, Village: Alva, Taluka: Dhansura, Dist: Aravalli. PP has acquired 107577.4745 sq. m land for the development of Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF site). The proposed site is an exhausted mine site. The proposed activity falls under Category B of project activity 7(d) as per the EIA Notification 2006. The total land area of the proposed site is 107577.4745 sq. meter. Total area proposed for greenbelt/tree plantation is 20000 sq. m. Total area for land filling cell will be 70500 sq. m. and total capacity of the site will be 2750000 MT. It is reported that no ecosensitive zone (National Park, Wildlife sanctuary, biosphere reserve, wild life sanctuary is located within 10 km distance. Nearest residential area of village Alva is @ 1.39 km from the proposed project site. Expected project cost is Rs. 45 Cr. Water requirement for operation phase will be 111 KLPD (Industrial: 101 KL, Domestic: 3 KL & Gardening: 7 KL). Unit has proposed to recycle 57 KL treated waste water for Boiler. Hence, actual fresh water requirement will be 54 KL/day, which will be sourced from rain water harvesting and tanker supply. The total wastewater generations will be 59.5 KL/day (From Boiler -5 KL, Laboratory & Washing 10 KL, Cooling 2 KL & Leachate from Secured Land fill 40 KL).. Unit has proposed ETP followed by MEE& ATFD. Condensate (57 KL/day) from MEE will be collected & reuse for Boiler. Solid from agitated Thin Filter Dryer (ATFD) and Sludge Drying Beds will be collected and stored in HWSA for ultimate disposal to TSDF (within premises). There will be no discharge of waste water within or outside premises. Domestic wastewater (2.5 KL/day) will be disposed off in Septic Tank/Soak Pit. Unit has proposed one steam Boiler for MEE. Coal/Wood briquette (6 MT/Hr) will be used as a fuel for Boiler. Bag filter followed by Wet scrubber is proposed as APCM for Boiler. Unit has proposed two DG sets (250 KVA each) as stand by facility. HSD (2 KL/hr) will be used as a fuel for DG sets. Hazardous waste suitable for landfill and if generator has obtained authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, waste will be weighed, sampled and then sent inside TSDF cell for unloading. Quick test will be carried out of each consignment of waste and Only if the sample passes through quick tests, it will be allowed to enter the disposal site. Compaction and levelling will be carried out regularly. Manifest system as per CPCB guideline will be followed. Transportation of Hazardous Solid Waste from Generation Site to TSDF will be carried out through authorized transporter with dedicated vehicles with online tracking system (GPS) and covered from top having the name plate with details of company's name, address, phone no., etc. The TSDF will have Leachate collection wells. Leachate will be pumped from Leachate wells by pipeline and will be sent to MEE for treatment and disposal. Storm water drainage system will be provided. The surface water generated during rainy season is collected through storm water system and after filtration, recharged to ground water through rain water harvesting system. Hazardous wastes to be generated from their own activities are ETP sludge (10 MT/Month), MEE Salts (25 MT/Month), Used bags (500 no.s/Month) and Used oil (4 Lit/Month).

Discussions/Observations:

Technical presentation made during the meeting by project proponent. During meeting, the project proponent presented that they have started baseline environmental monitoring from March 2016 and requested to allow them to use the same for the preparation of the EIA report which was agreed to by the committee. Upon asking about the suitability of the proposed location, PP informed that this location is in proximity to hazardous waste generators and proposed site is exhausted mine site. Design aspect of TSDF site in context of exhausted mine area was discussed in detail. Committee noted that currently there is no mining activity at proposed site. Committee asked to submit all the relevant details about compliance status of mine lease area of proposed site. The project proponent was further asked to follow all the relevant guidelines of MoEF and CPCB for setting up and operation of the hazardous waste landfill sites. After deliberation on various issues, following additional TORs were prescribed for the EIA study to be carried out for proposed TSDF project:

- 1. The study area shall be up to a distance of 10 Km for air quality, soil, surface and ground water quality from the boundary of the proposed project site.
- 2. Project site specific details such as distance of the project site from the nearest (1) Village or human habitation (2) Water Body: Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest shall be included in the EIA report to be prepared covering one season (other than monsoon) data.
- 3. Importance and benefits of the project.
- 4. Mining details of proposed Survey nos. 124, 125, 125/p & 132, Village: Alva, Taluka: Dhansura, Dist: Aravalli. As below:
 - Details regarding approved lease area & lease owners.
 - ➤ Compliance of lease conditions & details of lease issued, lease renewed & its current status.
 - > Compliance of conditions of approved mining plan, post mine closure plan.
 - ➤ Details of current status of mining & ground water morphology including details of fracture of the bottom where mining is over & TSDF is planned.
 - Undertaking regarding no activity of mining on proposed site at present.
- 5. Present land use pattern of the study area shall be given based on recent satellite imagery as well as field investigation clearly indicating, residential area, industries, vegetation (agricultural land, irrigated, un-irrigated, un-cultivable land-as per the revenue records, forest land- as per the records) grazing and waste land.
- 6. Comparison of alternate sites considered and the reasons for selecting the proposed site. Conformity of the site with the prescribed guidelines in terms of habitation, river, highways, railways, etc.
- 7. Justification for selecting particular capacity of the TSDF.
- 8. Point wise compliance of guidelines published by MoEF & CPCB for sitting and designing of the proposed TSDF.
- 9. Land requirement for the facility including its break up for various purposes, its availability and optimization.

- 10. Details of proposed layout clearly demarcating peripheral open path for unobstructed movement of fire tender as well as various activities such as security, weighbridge, laboratory facility, temporary hazardous waste storage areas, stabilization units, landfill, vehicle tyre wash areas, leachate collection pits / wells and others such as admin building, canteen, worker's room, health centers, vehicle cleaning areas/ maintenance areas, greenbelt, internal roads, etc.
- 11. Details of temporary storage facility for storage of hazardous waste at project site.
- 12. Water requirement for the project and permission from the concern authority.
- 13. Details on proposed recovery and recycling options, if any.
- 14. Details of pre-treatment facility of hazardous waste at TSDF.
- 15. List of waste to be handled and their source along with mode of transportation.
- 16. Details on hazardous waste inventorisation, segregation at source for compatibility with transportation system and subsequent treatment.
- 17. Details on compliance program to the manifestation corresponding to waste transportation from source to TSDF adequate number of trucks, authorized dealers if any, features of the vehicles, trained manpower, health and safety measures, identification of transportation routes by avoiding vulnerable installations, frequency of truck movements, etc.
- 18. Details on proposed protocol for waste acceptance (verifying the waste quantity through weigh bridge, frequency of calibration of weighing machine, system for sampling, testing parameters, analysis methods, time lags, criteria for identifying the wastes which require stabilization prior to the landfill, no. of people, qualifications, manifestation systems, etc.)
- 19. Details of the laboratory facilities and statement on adequacy including proposals for accreditation, etc.
- 20. Process description along with major equipments and machineries, process flow sheet (quantative) from waste material to disposal to be provided.
- 21. Design details of hazardous waste storage facilities (capacities, protocol for storing the segregated hazardous waste, compliance to the statutory requirements and proposed safety precautions).
- 22. Details on proposed protocol for establishing the requirement of stabilization for various types of hazardous waste.
- 23. Details of stabilization process (step by step procedure, proposed structures, equipments, operations, general list of chemicals/material use, handling, personal protective equipments, occupational health and safety measurers, emergency preparedness, etc.
- 24. Details of the secured landfill (design, construction, operational and post closure maintenance) including waste volume, landfill capacity, phase-wise landfill capacity development and utilization plan, groundwater table, slope stability, compaction levels, liners, waste layers, capping arrangement, gas collection, leachate collection, equipments, stability considerations, trouble shooting mechanism, peizometric wells, health and safety measures, etc.
- 25. Specification of liners (for bottom & sides) and coveres to be used for the proposed landfill site.
- 26. Details on landfill gas collection / venting system and its management.
- 27. Details of leachate collection system leachate generation rates, leachate collection network within the landfill, external collection tanks (if any), treatment and disposal options (recirculation, evaporation, treatment, discharge, etc.), overflow control measures during flood/heavy rains, etc.

- 28. Details on landfill closure and its post closure monitoring plan including leachate, landfill gas, etc.
- 29. Possibilities of seepage & soil contamination and mitigation measure proposed to prevent the same.
- 30. Details of ETP including dimensions of each unit along with schematic flow diagram. Inlet, transitional and treated effluent qualities with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters. Inlet effluent quality should be based on worst case scenario considering production of most polluting products that can be manufactured in the plant concurrently.
- 31. Technical details of MEE including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required for the process etc. Techno-economical viability of the evaporation system. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
- 32. Technical details of proposed Incinerator/Spray dryer including capacity, fuel to be used, adequacy etc. Techno-economical viability of the proposed Incinerator. Control measures proposed for the Incinerator in order to avoid/reduce gaseous emission/VOC from incineration of industrial effluent containing solvents & other chemicals.
- 33. Action plan for complete "Zero Liquid Discharge" (ZLD) system for proposed project.
- 34. Details of the existing access road(s)/walkways to the development site and its layout.
- 35. Details of vehicular traffic management within and outside the project area during waste transportation.
- 36. Proposed financial model, creation of fund for future liabilities till 30 years of post closure including monitoring, etc.
- 37. Specific details of (i) Details of the utilities required, (v) Types & quantity of fuel to be used in each of the utilities, (vi) Flue gas emission rate from each utility along with stack height, (vii) Air Pollution Control Measures proposed along with its adequacy, (viii) List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it.
- 38. Specific details of fugitive emission from the proposed TSDF project and proposed measures to control it along with measures proposed to monitor VOC within work area.
- 39. Details of management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized.
- 40. Survey and topography details of the project area with appropriate contour interval.
- 41. Details of site topography along with the contour plan of the project area. Details of change in topography of the area due to the project. Details of the management of the run off / rainwater flowing through the existing natural drain / nallah / streams within the project site if any. Impacts on the surface hydrology pattern due to the proposed project. Details of measures proposed to ensure that natural drainage of the site will not be disturbed obstructed / disturbed and measures proposed to protect existing natural drain / nallah / streams within the project site.
- 42. Detailed plan to manage surface runoff in monsoon season. Measures proposed to avoid contamination of surface runoff from the TSDF in monsoon season. How it will be ensured that contaminated runoff won't flow outside the premises during rainy days.

- 43. Baseline data to be collected from the study area w.r.t. different components of environment viz. air, noise, water, land, biology and socio-economics.
- 44. Soil map up to 5 feet prepared by concerned Government Authority.
- 45. Details on geological and hydro-geological features of the project area such as type of soil, nature of soils, soil quality, soil properties including compressive strength, soil bearing capacity, consolidation, etc.
- 46. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
- 47. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 10 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
- 48. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters (SO2, NOx, PM10, PM2.5, VOC, Methane, CO2 etc.). The locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre-dominant downwind direction at a location where maximum ground level concentration is likely to occur.
- 49. Impact of the project on the AAQ of the area. Details of the model used and the input the parameters used for modeling should be provided. The air quality contours may be plotted on a location map showing the location of project site, habitation, sensitive receptors, if any. The wind roses should also be shown on this map.
- 50. Details on noise levels at sensitive/commercial receptors.
- 51. Impact of the TSDF installation on the environment including the local hydrology, soil condition, floral and faunal bio-diversity of the region and the mitigation measures proposed.
- 52. Details of flora and fauna duly authenticated should be provided. In case of any scheduled fauna, conservation plan should be provided.
- 53. Demography details of all the villages falling within the study area.
- 54. While identifying the likely impacts, also include the following for analysis of significance and required mitigation measures:
 - √ impacts due to hazardous waste carrying trucks movement
 - ✓ impacts due to leachate on surface water, soil and groundwater
 - ✓ impacts due to air pollution including landfill gas
 - √ impacts due to odour pollution
 - √ impacts due to noise
 - √ impacts due to fugitive emissions
 - ✓ impact on health of workers due to proposed activities
- 55. Proposed odour control measures

- 56. Detailed five year greenbelt development program including types & number of trees to be planted, width of plantation, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
- 57. Details of existing trees to be protected / preserved / transplanted / removed. Permission of concerned authority for cutting the trees within the premises. Time bound action plan for compensatory tree plantation including details like number and type of trees to planted, area of tree plantation, budgetary allocation for the same etc. should also be submitted.
- 58. Details of top soil management plan during construction phase. If the topsoil is proposed to be preserved, the details relating to the quantity of topsoil stored, demarcated area on plan where it is stored along with preservation & reutilization plan is to be given.
- 59. Monitoring of pollutants at receiving environment for all the appropriate notified parameters
 - ✓ Air quality, groundwater, surface water, leachate, gas quality, etc. during operational phase of the project
 - ✓ Leachate within the landfill and after treatment
 - ✓ Groundwater quality around the landfill
 - ✓ Surface water quality
 - ✓ Gas quality within landfill (VOCs, H2S, etc.)
 - ✓ Air quality above landfill
- 60. Details on monitoring of qualitative parameters air quality, groundwater, surface water, leachate, gas quality, etc. location, frequency, parameters, etc. for all the appropriate notified parameters for monitoring after landfill closure
 - ✓ Leachate quality after treatment and at receiving environment
 - ✓ Groundwater quality around the capped landfill
 - ✓ Surface water quality
 - ✓ Air quality above landfill and at gas vents
- 61. Details of in-house monitoring capabilities and the recognized agencies if proposed for conducting monitoring.
- 62. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided to the workers. Plan for pre-employment and periodical medical checkup of the workers.
- 63. Details on landfill closure and its post closure monitoring plan including leachate, landfill gas etc.
- 64. Details of the proposed overall safety and health protection measures during the project design, construction and operation phases.
- 65. Details on surface/storm water management.
- 66. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenario. The worst-case scenario should take into account the maximum inventory of storage at site at any point in time. The risk contours should be plotted on the plant layout map clearly showing which of the activities would be affected in case of an accident taking place. Measures to guard against fire hazards including details of fire detection and control system and fire control plan showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.

- 67. Details of the emergency preparedness plan and on-site & off-site emergency management plan and disaster management plan.
- 68. Details of disaster management plan during operation phase of the project should include also scenario of natural catastrophe like earth quake, cyclone and floods in addition to other disasters. The plan should include the details of (i) Emergency lighting plan (ii) details of power back up system in the case of emergency (iii) fire fighting arrangements (iv) first aid arrangement (v) Training and Mock drill (vi) Emergency announcement system (vii) Signages (viii) location of emergency stair cases and pathways etc.
- 69. Details of seismic zone of the project site and design aspects required to be adhered to as per National standards.
- 70. Proposal for socio-economic development activities including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
- 71. Detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimisation, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
- 72. Plan for reuse / recycling of gypsum sludge and iron sludge along with the agreement letters of endusers.
- 73. A tabular chart for the issues raised and addressed during public hearing/consultation and commitment of the project proponent on the same should be provided. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
- 74. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.(b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
- 75. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
- 76. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
- 77. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
- 78. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for "CHWTSDF" shall be considered as generic TORs for preparation of the EIA

report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The draft EIA report shall be submitted to the Gujarat Pollution Control Board for conducting the public consultation process as per the provisions of the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 06/05/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

9.	Sun Cement	Survey. No. 701/6 paiky 2, Vill. Dabhoda, Ta:	Screening &
		Kheralu,	Scoping
		Dist.: Mehsana	

Project / Activity No.: 3(b)

• M/s: Sun Cement (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND/10911/2016 dated 05/04/2016.

Project status: New

Project / Activity Details:

Sr.	Name of Product	Capacity
no.		
1	Cement	3000 MT/Month

The project falls under Category B of project activity 3(b) as per the schedule of EIA Notification 2006. Total plot area is 9713 sq. m. Unit has proposed 3000 sq. m area for green belt. Expected project cost is Rs. 1.32 Crores. Main raw materials to be used are Clinker, Slax, Fly ash, Marine Gypsum & Carbon black. Total water consumption for proposed project will be 11 KL/day. There will be no generation of industrial waste water from the proposed project. Domestic waste water will be disposed off into Soak pit system. There is no flue gas emission from the proposed activity. There will be no generation of hazardous waste from the manufacturing activity.

Observations/Discussion:

Technical presentation made during the meeting by project proponent. PP requested for B2 category as per the OM dated 24/12/2013. Committee took note of the OM no.J-13012/12/2013-IA-II (I) dated 24/12/2013, which stated as "all stand-alone grinding units listed in the Schedule as Category "B" subject to the condition that transportation of raw material and finished products shall be primarily* through Railways. (* transportation by railways should not be less than 90% of the traffic (Inward & Outward put together)". On asking about the transportation of the raw materials & products, PP could not reply satisfactorily. Committee was of the view that, PP should submit the complete details about availability of railway for

transportation of raw materials as well as finished products and undertaking in this regard covering requirement as per OM dated 24/12/2013 for consideration of project as B2 project.

Considering the above facts, it was unanimously decided to consider the project for TOR/Scoping only after submission of the following:

1. Revised complete proposal with Revised Form-1 & relevant details through online web portal.

1	10.	Arkil Chem Pvt. Limited	Plot No. 2417 Gidc Notified Industrial Area,	Screening &
		(Unit: li)	Sarigam,	Scoping
			Ta: Umbergaon, Dist- Valsad	

Project / Activity No.: 5(f)

• M/s: Arkil Chem Pvt. Limited (Unit: II) (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/10918/2016 dated 06/04/2016.

Project status: New

Project / Activity Details:

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

Sr.	Name of Products	Quantity
no.		
	Organic Azo Pigments (Orange/Yellow/Red/Violet)	100 MT/Month

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 1580 sq. m. Unit has proposed 500 sq. m area for green belt. Expected project cost is Rs. 3.5 Crores. Total water consumption for proposed project will be 96.84 KL/day (1 KL for Domestic, 1 KL for Gardening, and 94.84 KL for Industrial) which will be sourced from GIDC water supply. Industrial waste water generation will be 94 KL/day, which will be treated in proposed Primary & Secondary treatment plant and treated waste water will be sent to CETP of Sarigam. Domestic waste water (1 KL/day) will be disposed off into soak pit system. It is proposed to install one steam Boiler (2.5TPH) and one Hot Air Dryer. Natural gas (1700 SCM/day for Boiler and 800 SCM/day for Hot Air Dryer) will be used as a fuel. Drying of pigments will be carried out in tray dryers. Pulverization of pigments will be carried out in a closed circuit grinding equipment. Unit has proposed one DG set in which HSD (15 ltrs/hr) will be used as fuel. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be ETP sludge (35 MT/Year), Discarded containers/Bags/Liners (1 MT/Year) and used oil (0.005 MT /Year). ETP 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 recyclers/vendors after decontamination. Used oil will be sold only to the registered recyclers.

Observations/Discussion:

Technical presentation made during the meeting by project proponent. Committee observed that the effluent after treatment can be reuse within the manufacturing plant and thus they can conserve the water. Committee suggested reuse/recycle of treated waste water to the maximum extent and to minimize the effluent discharge to the CETP. CETP performance was discussed. After detailed discussion, the following

additional Terms of Reference were prescribed for the EIA study to be done covering 5 Km radial distance from the project boundary.

- 1. Copy of plot holding certificate obtained from GIDC Sarigam.
- 2. Exact aerial distance from the CEPI area of Vapi and Inter state boundary from the project premises.
- 3. Present land use pattern of the study area shall be given based on satellite imagery.
- 4. 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.
- 5. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
- 6. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities. (Give specific details about source of effluent generation).
- 7. Chemical name of each proposed products to be manufactured. Details on end use of each products.
- 8. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
- 9. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
- 10. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
- 11. Quality and quantity of waste water 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. Details of CETP- Sarigam including (1) Total capacity of the CETP (2) Actual load at present (Qualitative and Quantitative per day) (3) CETP Up gradation scheme, if any (4) Last 6 analysis Reports of GPCB for Inlet and outlet of CETP (5) Spare capacity of CETP with treatability and feasibility report. (6) Recommendations and suggestions of the last two Environment Audit reports of CETP- Sarigam and its compliance report.
- 15. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.

- 16. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
- 17. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 5 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
- 18. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
- 19. Modelling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modelling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modelling should be superimposed on satellite image / geographical area map.
- 20. Base line status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
- 21. 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.
- 22. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
- 23. Membership of Common Environmental Infrastructure including the CETP, TSDF / Common Hazardous Waste Incineration Facility (CHWIF), Common MEE (Whichever is applicable) along with an assessment to accommodate the additional quantity of wastes to be generated. Explore the possibilities for co-processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
- 24. Complete Management plan for By-products/Spent acids to be generated, (if any) from the project including their quantity, quality, characteristics, end use etc. along with the name and address of

- end consumers to whom the by-product will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-product from the proposed project. Also give characteristics of the by products and feasibility of their actual use in respective products as a raw material.
- 25. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
- 26. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of wasteminimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/Year earmarked for environment pollution control measures.
- 27. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
- 28. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
- 29. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
- 30. MSDS of all the products and raw materials.
- 31. 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.
- 32. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
- 33. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
- 34. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
- 35. Detailed five year greenbelt development program including annual budget, types & number of trees

- to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
- 36. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
- 37. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.(b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
- 38. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions? Details of this system may be given.
- 39. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
- 40. Compliance of the MoEF's OM dated 04/08/2009 and 05/10/2011 regarding compliance of TOR prescribed & factual correctness of the data submitted in the EIA report, the names of experts associated with / involved in the preparation of the EIA report and the ownership of the EIA report by the Project proponent.
- 41. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
- 42. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for Synthetic Organic Chemical industry shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 06/05/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

11.	Dic Fine Chemicals Pvt. Ltd.	Plot No.Z/3, Dahej SEZ, Ta.: Vagra,	Screening &
		Dist.: Bharuch.	Scoping

Project / Activity No.: 5(f)

 M/s: Dic Fine Chemicals Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/10988/2016 dated 08/04/2016.

Project status: Expansion
Project / Activity Details:

This is an existing unit engaged in manufacturing of Synthetic organic chemicals and now proposes for

expansion as tabulated below:

DCIOW	below.			
Sr.	Name of the Products	Capacity		
No.	Name of the Products	(MT/Month)		
Existing				
1.	Printing Inks (Including Resins,	2500		
	Varnishes)			
Proposed (Total after expansion)				
1.	Printing Inks (Including Resins,	2500		
	Varnishes, Wax & Additives)			

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Plot area is approx. 201291.84 sq. m. No additional land is required for the proposed expansion. Unit has proposed 50000 sq. m area for green belt/tree plantation. Estimated cost of proposed expansion is Rs. 10 Crores. PP presented that production is not going to increase as it will be covered in existing approved EC/CTE/CCA: 2500 MT/Month) and the changes do not require reconfiguration of plant layout or equipment. Additional of Wax & Additives will be manufactured by Mixing and Blending Operation only and no Chemical Reaction will be involved for the same. Fresh water requirement (252 KL/day) and waste water generation (92 KL/day- 40 KL Domestic & 52 KL Industrial) after proposed expansion will not be increased. Waste water generation is mainly from scrubbing system (27 KL/day), Boiler (10 KL/day) and cooling (15 KL/day). Unit has provided ETP having Primary, Secondary & Tertiary Treatment Facility. The treated industrial effluent is utilized on land within premises for irrigation/plantation/gardening (by drip irrigation method for reuse of treated industrial effluent). Domestic waste water (40 KL/day) is disposed off into septic tank/soak pit system. At present Natural gas (8470 SCM/Hr) is used in one Boiler (2.8 TPH) and one TFH (10 Lac Kcal/Hr). Unit has proposed one TFH (2 Lac Kcal/hr) for proposed expansion. Natural gas will be used as a fuel for TFH. HSD (10 KL/day) will be used as a fuel for two DG sets (1063 KVA). Unit has provided Dust filters and vapor water scrubber in series with Varnish manufacturing area to control dust, SO2, NOx & NH3. No additional process stack is envisaged.

Spent Oil (2 MT/Annum), ETP Sludge(9 MT/Annum), Discarded Drums/ Containers/Barrels, Liners (1200 Nos./Month), Jumbo Bags (1 Nos./Month), Empty Tins/Plastic Tins (5 Nos./Month), Empty Paper Bags/Plastic/Box/Pitch Board etc.(13 MT/Annum), Waste Ink Spillage Waste/Waste Varnish Spillage (1 MT/Annum), Contaminated Cotton Waste (360 MT/Annum), Filter Bags Socked with Ink and Varnish (34 MT/Annum), Cartridge(0.5MT/Annum)

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During meeting PP presented that

the existing production capacity of 2500 MT/Month will be remain same after proposed additional Wax & Additives manufacturing. Further PP informed that there is no increase in pollution load as addition of "Wax & Additives" will be manufactured by only mixing & blending operation. Committee noted that the water consumption and waste water generation also remain same after proposed expansion. Natural gas is used as a fuel for TFH & Boiler. Looking to the no increase in water pollution, use of natural gas as a fuel and location of the project in SEZ-Dahej, the project was categorised as B2 project and the following additional information was sought for appraisal of the project.

- 1. Need for the proposed expansion should be justified in detail.
- Layout plan of the factory premises showing the proposed expansion activities on the same.
 Provision of separate entry & exit and adequate margin all round the periphery for unobstructed
 easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in
 the plant layout.
- 3. Demarcation of proposed expansion activities in lay out of the existing premises. Exact details about additional infrastructural facilities, plant machineries etc. required for the proposed expansion.
- 4. Monthly consumption of each raw material (Product wise).
- 5. Detailed manufacturing process of each product along with chemical reactions, mass balance and schematic diagram.
- 6. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the proposed expansion. Copy of permission letter obtained from the GIDC for supply of raw water as per the requirement of the proposed expansion.
- 7. Water balance (including reuse-recycle, evaporation if any)
- 8. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
- 9. Detailed technical justification regarding no generation of waste water from the proposed project and undertaking in this regard.
- 10. Plans for management and disposal of waste streams to be generated from spillage, leakages etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
- 11. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
- 12. Action plan for 'Zero' discharge of effluent shall be included.
- 13. Treated effluent management plan during monsoon season when utilization of treated effluent for gardening & plantation purpose is not feasible. Detailed study report considering Percolation rate of the land available for gardening & plantation. Ensure that land is suitable for utilization of treated sewage for plantation & gardening.
- 14. Specific details of (i) Details of the utilities required, (v) Types of fuel to be used and quantity of the each fuel, (vi) Flue gas emission rate from each utility along with stack height, (vii) Air Pollution Control Measures proposed along with its adequacy, (viii) List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it. (All these details should be in tabular format with comparative data of existing and proposed data).
- 15. Specific details of fugitive emission from the unit along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to

- keep the work area environment as per the norms of GFR.
- 16. Details of measures proposed for noise pollution abatement & its monitoring.
- 17. 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? (All these details should be in tabular format with comparative data for existing and proposed activity).
- 18. Methodology of de-contamination and disposal of discarded containers and its record keeping.
- 19. Complete Management plan for By-products to be generated from the project including their quantity, quality, characteristics, end use etc. along with the name and address of end consumers to whom the by-product will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-product from the proposed project. Also give characteristics of the by products and feasibility of their actual use in respective products as a raw material.
- 20. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
- 21. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
- 22. Copy of membership certificate from Common Environmental Infrastructure including the TSDF / Common Hazardous Waste Incineration facility for disposal of hazardous wastes to be generated from the proposed project.
- 23. 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.
- 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 GIDC area 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 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?
- 27. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
- 28. Specific safety details / provisions for various hazardous chemicals including solvents to be used in the process along with onsite emergency plan.
- 29. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.

- 30. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
- 31. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.
- 32. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
- 33. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
- 34. Copy of Environment clearance for the existing unit issued by the concern authority & its point wise compliance.
- 35. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).
- 36. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.
- 37. Status of submission of half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions of existing Environmental clearance.
- 38. A tabular chart with index for point-wise compliance of above details.

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

12.	Active Chemicals	Plot no. 824/28, GIDC, Jhagadia,	Screening &
		Dist- Bharuch	Scoping

Project / Activity No.: 5(f)

• M/s: Active Chemicals (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/11017/2016 dated 11/04/2016.

Project status: New

Project / Activity Details:

Sr. no.	Name of Product	Quantity (MT/Month)
1	2-(2,4-Dichlorophenyl)-1-(1H-1,2,4-triazol-1-yl)hexan-2-ol	25
2	Dibenzo[b,f][1,4]thiazepin-11(10H)-one	20
3	4-Nitro Benzene Sulfonyl Chloride	10

4	3-Nitro Benzene Sulfonyl Chloride	10
5	D-Phenyl Glycine Methyl Ester HCL	25
6	Benzyltriethylammonium chloride	25
7	Cetyl Pyridinium Chloride	10
8	1-tert-butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea	15
9	ETHYL-7-CHLORO-2-OXO HEPTANOATE	10
10	5-(Difluoromethoxy)-2-mercaptobenzimidazole	25
11	Potassium Sulfate Slurry	28
	Total	203

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

Total plot area is 3600 sq. m & unit has proposed 500 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs. 4 Crores. Total water consumption for proposed project will be 77.5 KL/day which will be sourced from GIDC water supply. Industrial waste water generation will be 39 KL/day, which will be treated in proposed Primary, Secondary & Tertiary treatment plant and treated waste water will be discharged into deep Sea via NCTL pipeline. Domestic waste water (0.5 KL/day) will be disposed off into soak pit system. It is proposed to install one steam Boiler (2 TPH) and one TFH (4 Lac Kcal/hr). Agro waste (32 MT/day) will be used as fuel for Boiler & TFH. Dust collector followed by Bag filter is proposed as APCM. Unit has proposed one DG set (250 KVA). Diesel (50 Lit./hr) will be used as a fuel for DG set. Scrubbing system is proposed for control of gaseous emissions of HCl, NO2, SO2, H2s from the reaction vessels. Hazardous waste generated from the manufacturing activity will be ETP sludge & Evaporation residue (10 MT/Month), Process waste (45 MT/Month), Distillation residue (45 MT/Month), Discarded containers/Bags/Liners (5 MT/Year), Spent Sulphuric Acid (88 MT/Month) and used oil (0.05 MT /Month).

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee observed that the most of the raw materials used for the proposed project are hazardous chemicals. Upon asking about the Safety precautions and Occupational health impacts of various hazardous chemicals, PP could not reply satisfactorily. Committee observed that there is generation of Spent acids (HCI, H2SO4 & Phosphoric Acid). Committee was of view that PP should come with sound management of all the spent acid streams and By-products. After deliberation, It was unanimously decided to consider the project for TOR/Scoping only after submission of the following:

- 1. Sound management of all the spent acid streams and By-products.
- 2. Specific details of Safety precautions and Occupational health impacts of raw materials to be used.

13.	Esdee Paints Ltd.	Block No. 174/P & 175/P, asna- Chacharwadi,	Screening &
		Sanand, Ahemdabad.	Scoping

Project / Activity No.: 5(h)

 M/s: Esdee Paints Ltd (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/11006/2016 dated 13/04/2016.

Project status: New
Project / Activity Details:

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

•

Sr.	Name of the products	Phase-I	Phase-II
no.			
1	Various Paints	2,673 MT/Month	
2	Acrylic Co-Polymer Resin		130 MT/Month

The project falls under Category B of project activity 5(h) as per the schedule of EIA Notification 2006. Total plot area is 20036 sq. m & unit has proposed 4634.72 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs.30.35 Crores. Total water consumption for proposed project will be 31.4 KL/day (Industrial 22.7 KL & Domestic 8.7 KL). Industrial waste water generation from process will be NIL. Cooling blow down (300 Lit./hr) will be reused for toilet flushing. Domestic waste water (3.5 KL/day) will be disposed off into soak pit system. It is proposed to install one TFH (2 Lac Kcal/hr). HSD (0.23 MT/day or 6 MT/Month) will be used as fuel for TFH. Unit has proposed one DG set (500 KVA) in which Diesel (15 ltrs/hr) will be used as fuel. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be Paint residue (7.5 MT/Year), Cotton waste contaminated with Paint & Oil (48 MT/Year), Discarded containers/Bags/Liners (110 no.s /Year) and used oil (0.1 KL /Year).

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Committee noted that this proposal falls under Integrated Paint industry as their proposal is manufacturing of Various Paints including Acrylic Co-Polymer Resin. Upon asking about the reason for applying under 5(f) only, PP could not reply satisfactorily. Committee also observed that PP has mentioned that EC is not required for manufacturing of various Paints and they have applied for manufacturing of Acrylic Copolymer Resin under the 5(f) category as per the schedule of EIA Notification 2006. The Committee noted that proposal is incomplete in respect of categorization & other relevant details and is deferred. Committee unanimously decided to consider this proposal only after submission of the revised complete proposal through online web portal.

14.	Embio Limited	Plot no. 3/3/2, Dahej GIDC-III, Taluka Vagra,	Screening &
		District Bharuch	Scoping

Project / Activity No.: 5(f)

 M/s: Embio Limited (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/11132/2016 dated 21/04/2016.

Project status: New

Project / Activity Details:

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

Sr. No.	Name of the Products	Quantity MT/Year
Α	MULTIPURPOSE API	
	Oxalate for nor products	

1	L-Nor Ephedrine HCL	50
2	L-Nor Ephedrine Base	25
3	P-Nor Ephedrine HCL	20
2	P-Nor Ephedrine Base	50
4	D-Nor Pseudo Ephedrind HCL	5
В	ANIMAL FEED	
1	Octopamine HCL	72
2	Ractopamine HCL	50
С	ENZYME BASED FERMENTATION PRODUCTS	
1	10kl fermenter - 2 Nos.	14.66
2	20Kl fermenter - 2Nos.	29.33
D	PAIN MANAGEMENT PRODUCTS	
1	Codeine	80
2	Morphine	35
3	Hydrocodone	22
4	Oxycodone	22
5	Methadone	5
6	Fentanyl	5
	TOTAL	484.99

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 98,567.05 sq. m & unit has proposed 32,527.12 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs.401.34 Crores.

Water consumption and wastewater generation is tabulated below:

Description	Water consumption KL/day	Effluent generation KL/day	Losses KL/day	Treated water recycle KL/day	Fresh water KL/day
Domestic					
Domestic water	60	50	10	0	60
Gardening	130	0.00	130	130	50
Industrial water					
Process water					
+ DM Water	35	273	82	0	355
Washing	195	195	0	142	53
Cooling tower	300	50	250	300	50
Boiler	500	10	40	0	0
TOTAL	1090	578	512	572	518

Industrial waste water & Domestic waste water will be treated in ETP followed by RO and MEE. Industrial effluent will be generated from manufacturing process, utilities and domestic uses that will be given aerobic treatment. Unit has proposed to segregate dilute stream & Concentrated effluent stream at source. Unit has proposed ETP followed by RO & MEE. RO permeate and MEE condensate water will be reused and/or sent to CETP. RO permeate and MEE condensate water will be reused and/or sent to CETP. Coal (20 MT/day) will be used as a fuel for one steam boiler (5 TPH). Natural gas (10000 SCM/day will be used as a fuel for one Boiler (5 TPH). HSD (180 Lit./hr) will be used as a fuel for DG set (1000 KVA). Wet scrubbers are proposed as APCM for control of gaseous emission of HCl from reaction vessels. Hazardous waste generated from the manufacturing activity will be ETP sludge, Spent carbon, Discarded containers/Bags/Liners, Process residue, Bio-mass and used oil.

Observations / Discussion:

Technical presentation made during the meeting by project proponent. During the meeting, issues related to waste water generation, characteristic of waste water, Local employment, CSR, APCM, Safety, Occupational health of employees, Hazardous waste generation & management etc have been discussed. Upon asking about disposal of the treated waste water, PP informed that they will discharge into CETP or they will achieve Zero Liquid discharge. Committee noted that there is no CETP facility in the estate and asked PP to go for complete zero discharge. PP agreed upon to adopt segregation system of waste water streams and achieve zero liquid discharge by ETP followed by RO & MEE system. While discussing about the Ephedrine base products, Committee concern about the illicit drug industry and asked to obtain No Objection certificate and required permissions from the concerned authority to which PP agreed upon. After deliberation on various aspects, following additional TOR was prescribed for the EIA study covering 10 km radius of the project boundary.

- 1. Copy of plot holding certificate obtained from GIDC Dahej.
- 2. Present land use pattern of the study area shall be given based on satellite imagery.
- 3. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
- 4. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
- 5. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities.
- 6. Chemical name of each proposed product to be manufactured. Details on end use of each product.
- 7. NOC/Permission from concern department for manufacturing of Controlled substances i.e. Ephedrine, Pseudoephedrine, Nor ephedrine etc.
- 8. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
- 9. Assessment of source of the water supply with adequacy of the same to meet with the requirements

- for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
- 10. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes.

 Details of methods to be adopted for the water conservation.
- 11. Qualitative and quantitative analysis of waste water to be generated from the manufacturing process of each product to be manufactured along with mass balance.
- 12. Segregation of waste streams and details on specific treatment and disposal of each stream.
- 13. Explore the possibilities to reuse treated waste water (RO Permeate & MEE condensate) for other purposes like process, toilet flushing etc. instead of Gardening / Plantation.
- 14. Action plan for 'Zero' discharge of effluent shall be included.
- 15. Details of ETP including dimensions of each unit along with schematic flow diagram. Inlet, transitional and treated effluent qualities with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters. Inlet effluent quality should be based on worst case scenario considering production of most polluting products that can be manufactured in the plant concurrently.
- 16. Technical details of MEE including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required for the process etc. Techno-economical viability of the evaporation system. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
- 17. Technical details of RO system.
- 18. Undertaking stating that a separate electric meter will be provided for the ETP, RO & MEE.
- 19. Economical and technical viability of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
- 20. Proposal to provide and maintain separate electric meter, operational logbook for effluent treatment systems, online meters for monitoring of flow, pH, TOC/COD, etc.
- 21. Application wise break-up of effluent quantity to be recycled / reused in various applications like sprinkling for dust control and green belt development etc. In case of land application, details on availability of sufficient open land for utilizing effluent for plantation / gardening. How it will be ensured that treated effluent won't flow outside the premises linked with storm water during high rainy days.
- 22. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
- 23. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
- 24. Anticipated environmental impacts due to the proposed project/production may be evaluated for

- significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 10 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
- 25. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters like HCl etc. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
- 26. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modeling should be superimposed on satellite Image / geographical area map.
- 27. Base line status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
- 28. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate 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.
- 29. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
- 30. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
- 31. Complete management plan for By-products/Spent acids to be generated, along with the name and address of end consumers to whom the by-product/s will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-products/Spent acids from the

proposed project.

- 32. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
- 33. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of wasteminimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
- 34. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
- 35. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
- 36. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
- 37. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
- 38. MSDS of all the products and raw materials.
- 39. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
- 40. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
- 41. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire

- pumps, jockey pump, toxic gas detectors etc.
- 42. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
- 43. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
- 44. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
- 45. A tabular chart for the issues raised and addressed during public hearing/consultation and commitment of the project proponent on the same should be provided. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
- 46. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- 47. (b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
- 48. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
- 49. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
- 50. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
- 51. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
- 52. A tabular chart with index for point-wise compliance of above TORs.

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

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 06/05/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

The following proponent did not remain present during the meeting:

1. M/s. KANSAI NEROLAC PAINTS LIMITED, Plot No: C-385 & C-386, Saykha Industrial Area, Bharuch.

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

Meeting ended with thanks to the Chair and the Members.

Minutes approved by:

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