Minutes of the 287th meeting of the State Level Expert Appraisal Committee held on 27/04/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 287th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 27th April, 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 Rajesh I. Shah, Member, SEAC
- 7. Dr. Mayuri Pandya, Member, SEAC

The agenda of TOR/Scoping/Category 8 (a) cases, Appraisal & reconsideration cases was taken up. Ten (10) cases of TOR/Scoping/Category 8 (a), two (2) cases of reconsideration and five (5) cases of Appraisal was taken up. The applicants made presentations on the activities to be carried out along with other details furnished in the Form-1 / Form-1A, EIA report and other reports.

1	Kish Developers	S No.190, 191/B,207 T.P. 84/B, Makarba,	Screening & Scoping
		Ahemdabad	

The SEIAA, Gujarat has accorded environmental clearance to M/s Kish Developers for residential building construction project – "K.P.Eternia" at S No.190, 191/B,207, T.P.S.No. 84/B, Makarba, Ahemdabad vide order no. SEIAA/GUJ/EC/8(a)/82/2012 dated 21/03/2012 for the built up area of 48,458.12 m² comprising of 7 buildings housing total 336 residential units.

The project proponent, vide proposal no. SIA/GJ/NCP/10864/2016 dated 26/03/2016 submitted revised Form I & Form IA and requested for amendment of Environmental Clearance order dated 21/03/2012.

The request of amendment for the proposed changes in terms of expansion and change in scope (from the completely residential project to the completely commercial project) was considered during the meeting. Details of the project after the proposed changes, as presented before the committee, are tabulated below:

Sr. No.	Particulars	Details
1.	Proposal is for	Change in scope / Expansion [SIA/GJ/10864/2016]
2.	Type of Project	Residential & commercial Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Commercial Project
5.	Name of Developer	M/s Kish Developers
6.	Estimated	90 Crores

	Project Cost (Rs.						
	In Crores)						
7.	Whether construction	No					
	work has been						
	initiated at site?						
	If yes, details						
	thereof						
8.	Project Details	•Land / Plot Area (m ²): 14,2	22.0				
		•FSI area (m²):38,396.70					
		•Total BUA (m ²):77,752.94					
			Permissible	Brongod			
		FSI Area (m ²)	38,399.4	Proposed 38,396.70			
		Ground Coverage (m ²)		4,627.57			
		Common Plot Area (m ²)	1,422.2	1,423.0			
		Max. building height (m)	45 m	45 m.			
9.	Building Details	No. of Buildings: 3 builiding	ıs & 17 corporate hoi	uses			
0.	2 3	No. of Blocks: 3 buildings	•				
		• Scope of buildings/blocks:	•				
		14 floors. 1 building - 2 leve	-	_			
		Corporate houses – Groun	•	1001 + 13 110013.			
		No. of residential units:	u 11001 + 2 110015.				
			luito: 44 abana 47 a	compared beyong and E12			
		• No. & type of Commercial	Units: 11 snops, 17 c	corporate nouses and 513			
		offices.	Nie				
40	No. of some stand	Details of amenities if any:					
10.	No. of expected residents / users	3710 occupants and 300 vis					
11.	Water & waste	 Water requirement (KL/day 	r): 21.75				
	water details	 Source of water: Local wat 	er tankers.				
	during construction	 Waste water generation qu 	antity (KL/day): 5.73				
	phase	 Mode of disposal: Into sept 	ic tank & soak pit.				
	P.1.6.66	 Details of reuse of water, if 	any: No				
12.	Water & waste	 Total water requirement (K 	L/day): 187.9				
	water details	• Fresh water requirement (h	(L/day): 60.5				
	during operation	Source of water: Water sup	ply from Ahmedabad	d Municipal Corporation			
	phase	(AMC)					
		Waste water generation quantity (KL/day): 145.2					
		Mode of disposal: Sewage	to be generated will	be treated in the proposed			
		onsite STP. Treated sewag	e will be used for ga	rdening & flushing purpose			
		within premises. Only rema	ining quantity of trea	ited sewage will be			
		discharged into the drainage	e line of AMC.				
		•In case of STP provision, c		175 KL/day			
		•STP Technology: biologica	•				
		Purposes for treated water		g and flushing			
		 Quantity of treated water to 		•			

						2. Flushing (KL/day):121.0		
		Provision of dual plumbing system (Yes/No): yes						
		Quantity and type (treated/untreated)of water to be discharged: Sewage to						
		1	be generated will be treated in the proposed onsite STP. Treated sewage					
		_				•		
			•	•		nin premises. Only		
		remaining quan	itity of treated	sewage will be	disch	narged into the drainage		
		 Mode of dispos 	al: as above.					
13.	Status of water supply and drainage line	Available in the area.						
14.	Solid waste	Construction Pl	hase:					
	Management		Generation	Quantity to	be	Mode of Disposal /		
			(m ³)	reused (m ³		Reuse		
		Top Soil	2,500	2,500		Will be used for greenbelt development.		
		Other	47,500	21,000 m ³	will	Remaining will be		
		excavated	47,300	be used fo		send to their other		
		earth		back filling		project site for filling		
				and raising		up of the low lying		
				plinth level	•	areas.		
		Construction	700	350 m3 wil		Remaining will be		
		debris		used for		send to their other		
				developme	ent	project site for filling		
				of internal		up of the low lying		
				road and b	ack	areas.		
				filling.				
		Steel scrap	20	0		Sold to vendors		
		Discarded	10	0		Sold to vendors		
		packing						
		materials						
		On anotion Phase						
		Operation Phas Type of waste	e: Generation	Mode of	Mo	de of Disposal / Reuse		
		i ype or waste	Quantity	waste	IVIO	de di Disposai / Nedse		
			(Kg/day)	collection				
		Dry waste	800.0	White bins	Sol	d to vendors		
		Wet waste	410.0	Green Bins	_	nd over to AMC		
		STP Sludge	20	Green Bins		nd over to AMC		
		Details of segre						
		•	•	•	nlace	ed within premises: 15 kg		
		and 40 number		•	•			
			•	•		sed by local authority: final		
				•	•	ection point of AMC.		
15.	Parking Details					per GDCR:19,198.35 m ²		
		Parking area re	•			as per GDCR: 19,198.35		
		m ²	. 000			NDC 700		
		Total number of CPS requirement for the project as per NBC :768						
			•	•	•	as per NBC:768		

1	1	T		•					
		Total Parking	area provide	d (m²) & No. of	CPS: 25,110.5	58 & 807 CPS			
		Parking areaCPS	provided in I	basement (m²)	& No. of CPS	S: 22,423.66 &	700		
		Parking areaCPS	provided in	hollow plinth (m ²) & No. of (CPS:1,186.92	& 42		
		Parking area CPS.	• Parking area provided as open surface (m²) & No. of CPS:1,500.0 and 65						
16.	Traffic Management	 Width of adjacent public roads: 18 m wide proposed roads on two sides. Number of Entry & Exit provided on approach road/s: 4 gates +1 entry for basement. Width of Entry & Exit provided on approach road/s: 6 m Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m to 4.5 m. 							
17.	Details of Green Building measures proposed.	Maximum use motors & pum landscape are and low voltage ground water	• Width of all internal roads:6 m & 4.5 m. Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, water meters, solar lights in open & landscape areas, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation, rain water harvesting & ground water recharge through 4 nos. of percolating wells, provision of Sewage Treatment Plant and reuse of treated sewage etc.						
18.	Energy Requirement, Source and Conservation	Connected lo Source: Torre % of saving rated energy Compliance of form: only roo DG Sets: No. and capa	mand:2.5 MW lad: ent Power Lim with calculation efficient election of the ECBC go of area	nited. ons: ~30% by ronic consume guidelines (Yes	s / No),if yes, co	•			
19.	Fuel & its quantity: HSD, 25 litre/hr Fire and Life Safety Measures • During the construction phase: Provision of Personal Protest Equipment's (PPEs) to the construction workers and its usage shate ensured and supervised, training to all workers on construction suspects, first aid room with first aid kit, doctor & ambulance service. • During operation phase (Commercial): Fire extinguishers, hose reel riser, yard hydrant, manually operated electric fire alarm system, autor sprinkler system in basement, underground static water storage tank KL capacity, terrace tank -30 KL capacity (total capacity), refuge area at 8th and 12th floors, pump near underground static water storage tank pump) with minimum Pressure of 3.5 kg/cm² at terrace level etc.					, wet matic c-300 at 5 th ,			
20.	Details on staircase								
			Elect eres	No of	Width of the	Travel			
	Type & no. buildings	of No. of floors	Floor area m ²	No. of staircase	staircase (m)	distance (m)			
	A	2B+G+14	874.14	2	2.0	24			
	В	2B+G+14	874.14	2	2.0	24			
	C	2B+G+13	789.25	2	2.0	26			

21.	Rain Water	Level of the Ground water table:					
	Harvesting	No. & dimensions of RWH tank(s): 4 Nos and 2.0m X 2.0 m X 3.0 m					
	(RWH)	No. and depth of percolations wells :4 nos.					
		Details on Pre-treatment facilities : oil and grease removal and filter.					
22.	Green area	•Tree covered area (m²):400.0					
	details	• Area covered by shrubs and bushes (m ²): Included in lawn covered area.					
		• Lawn covered area (m ²):1,023.0					
		●Total Green Area (m²):1,423.0					
		• Green Area % of plot area: 11%					
		• No. of trees and species to be planted: 215 number of trees and Limbdo,					
		KaadoSiris, Jambu, Asopalav, DesiBadam and Gulmohar.					
23.	Dust control	Spraying of water, Peripheral barricading, covered shed for cement					
	measures	loading area, covering the excavated earth with tarpaulin sheet etc.					
24.	Budgetary	Allocation of Rs. 56.5 lacs & Rs. 10.5 lacs as capital cost & recurring cost					
	allocation for	respectively has been made for EMP & EMS.					
	Environmental Management						
	Plan						
	(Rs. in lacs)						
25.	Details of	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of					
	ecofriendly	RMC, lead free paints etc.					
	building materials						
26.	Details of	Sanitation facilities, maintaining hygienic condition at the project site to avoid					
	amenities to be	health problems, safe drinking water, PPEs, first aid room with first aid kit &					
	provided to	welfare facilities as per the Gujarat Building & Other Construction Workers					
	construction workers.	Rules.					
27.	Documents	Copy of sub registrar's office index submitted by them shows that the N.A					
<i>∠1</i> .	related to land	land of all the three survey numbers is in the name of M/s Kish Developers.					
	possession	idita of all the three dairey flambere is in the flame of the floir bevelopers.					

During the meeting, while asking by the committee, it was replied that any kind of construction activity has not yet been started for the proposed project. it was presented that traffic survey carried out on adjacent 18 m wide road shows that the road having carrying capacity of 1400 PCU will be adequate enough to accommodate the total traffic load of 888 PCU (Existing – 752 PCU + proposed - 136 PCU) in the proposed scenario. Further it was presented that the basements will be provided with mechanical ventilation system (exhaust fans) and designed to provide 12 air changes per hour during normal mode and 30 air changes per hour during fire mode in accordance with NBC. Carbone monoxide sensors associated with automatic speed controller of exhaust fans, combination of duct and ductless jet nozzle fan system will be adopted to push and pull the air in the car park from the intake point to the discharge point. The project proponent was suggested to plant trees on the periphery of the common open plot. After detailed discussion, it was decided to appraise the project further only after submission of the following:

- 1. Full size project plans showing building wise & floor wise built up area, FSI area, Floor area details & plot area statement.
- 2. Justification for the proposed changes along with the supporting documents showing that the proposed commercial project is permissible at this location and availability of the proposed FSI to the project.

- 3. Explore the possibility of providing two separate ramps and revised plans showing location of both the ramps.
- 4. Plans showing the floor area & maximum travel distance of the staircase from the farthest corner of the floor, distance between the two consecutive staircases and provision of staircases.
- 5. Minimum fire water requirement for the proposed project based on the fire study.
- 6. A notarized undertaking stating that any kind of manufacturing activity will not be allowed in the commercial units of the proposed project and any commercial unit will not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.
- 7. Perspective view of the building(s) to be constructed along with the materials used such as fibers, glass, etc. on the facades or external walls and the impacts thereof on the nearby buildings / residents due to heat island effect and emissions from the air conditioning systems.

2	Dhirubhai M Hirpara	R.S.No 683 & 684, At- Kosamdi, Tal-	Screening & Scoping
		Ankleshwar, Dist Bharuch	

Sr. No.	Particulars	Details					
1.	Proposal is for	New Project [SIA/GJ/NCP/58203/2016.]					
2.	Type of Project	Residential & Commercial					
3.	Project / Activity No. [8(a) or 8(b)]	8(a)					
4.	Name of the project	Residential & Commercial Bui	Iding construction proje	ect.			
5.	Name of Developer	Mr. Dhirubhai M. Hirpara					
6.	Estimated Project Cost (Rs. In Crores)	35 Crore	35 Crore				
7.	Whether construction work has been initiated at site? If yes, details thereof	No.					
8.	Project Details	 Land / Plot Area (m²): 43,402.0 FSI area (m²): 31,986.43 Total BUA (m²): 44,604.98 					
			Permissible	Proposed			
		FSI Area (m ²)	52,470.27	31,986.43			
		Ground Coverage (m ²)		13,104.32			
		Common Plot Area (m²)	4,272.97	4,336.18			
		Max. building height (m)		18.0			
9.	Building Details	No. of Buildings: 6 Nos. + 27	6 row houses.				
		No. of Blocks: 11 Nos. + 276 row houses.					
		• Scope of buildings/blocks: 6 nos. buildings - Ground + 5 floors, Row					
		houses - G+1 floor.	2 1120. 22				
		& size of Residential Units:	474 (2 RHK- 198 Flate	s) & (Row House-213-			
		- a size of residential offics.	777. (Z DI IIX- 130 I IAK	5) & (NOW 11003C-213-			

		4DLU/ 00 0DL	12\				
		1BHK,63-2BHK)					
		No. & type of Commercial Units: 66 Nos. Of Shops					
		Details of amenities if any: No					
10.	No. of expected residents / users	2133 nos. residential users					
11.	Water & waste	Water requires	ment (KL/day): 1	15.95			
	water details	Source of water	er: Local water t	ankers			
	during construction	Waste water g	eneration quant	tity (KL/day): 1.15			
	phase	Mode of dispo	sal: disposed th	rough onsite sept	ic tank and soak pit		
	p	Details of reus	se of water, if an	y: washing water	of construction equipments		
		will be reused	for curing				
12.	Water & waste	Total water re	quirement (KL/d	ay): 416.0			
	water details	Fresh water re	equirement (KL/d	day): 171.0			
	during operation	• Source of v	vater: Water s	supply from Bha	aruch Ankleshwar Urban		
	phase	Development	Authority (BAUD	DA).			
		Waste water of	eneration quant	tity (KL/day): 254.	0		
		Mode of dispo	sal: Sewage to	be generated from	n the project will be treated		
		· ·	•	•	let flushing and gardening		
		purpose withir	n premises and i	rrigation purpose.			
		• In case of STF	provision, capa	acity of STP: 300 I	KL/day		
		STP Technol	ogy: Convention	nal with primary	, secondary & treatment		
		facilities.	0,		•		
		Purposes for t	reated sewage	utilization: Toilet F	lushing and Gardening		
		=	~		ning (KL/day): 128.0		
					ing (KL/day): - 117.0		
		Provision of departments	ual plumbing sys	stem (Yes/No): Ye	es		
				,	be discharged: Sewage to		
		•	• • •	•	n the proposed onsite STP		
		~			rpose within premises and		
		irrigation purp	•	0 0.			
		Mode of dispo					
13.	Status of water						
	supply and						
4.4	drainage line	0 ()					
14.	Solid waste	Construction Ph	ase: Generation	Quantity to be	Made of Disposal /		
	Management		(m ³)	Quantity to be reused (m ³)	Mode of Disposal / Reuse		
		Top Soil	20,700	20,700	Excavated surplus		
		'	,	,	earth and construction		
					debris will be refilled		
		Other	1		at low lying areas in		
		excavated the project premises					
		earth and top soil will be					
		Constant	40 2	40 2	reused for		
		Construction debris	48 m3	48 m3	development of		
		I neniis			greenbelt.		
		11			9		

		Ctool cover	E C MT	E O A MT	Will be cold to cores
		Steel scrap	5.6 MT	5.04 MT	Will be sold to scrap vendor
		Discarded	1 MT		Will be sold to recycler
		packing			
		materials			
		On a setion Disease			
		Operation Phase Type of waste	e: Generation	Mode of	Made of Disposal
		Type of waste	Quantity	waste	Mode of Disposal / Reuse
			(Kg/day)	collection	/ 1.0d50
		Dry waste	1359 Kg	Into bins to be	The non-
		Wet waste]	provided for	biodegradable
				each	wastes will be
				individual unit.	sold to recyclers
					and the biodegradable
					wastes will be
					collected and
					disposed through
					composting
		CTD Cludge	205 1/2		process.
		STP Sludge	225 Kg		Reused as manure in
					gardening and
					irrigation
		each; 20 nos. • Disposal: The biodegradable process. • Landfill site where the state of the st	no. of community of bins; non-biodegrada wastes will be	ble wastes will be collected and dis	ed within premises: 140 liter e sold to recyclers and the posed through composting sed by local authority:-
15.	Parking Details		•		s per GDCR: 3,572.11 m ²
			•		s per GDCR: 3143.38 m ²
		_	•		as per GDCR: 428.73 m2
			•	• •	t as per NBC: 266 nos.
			•		s as per NBC: 237 nos.
			•		ts as per NBC: - 29 nos. 19,775.29 m ² , 769 nos.
				· ·	of ECS: 6544.78 m2, 204
		nos	provided iii base	ineni (iii) & NO.	01 L00. 0044.70 IIIZ, 204
		Parking area	orovided in hollo	w plinth (m²) & N	o. of ECS: 1199.12 m2, 43
		nos.		, , 2, -	N (500 1000100 5
		 Parking area 522 nos. 	provided as opei	n surtace (m ⁻) &	No. of ECS: 12031.39 m2,
16.	Traffic Management	Width of adjact	ent public roads	: 18 m wide road	
<u> </u>	,aagomone	1			

			Number of Entry & Exit provided on approach road/s: One gate will be provided.						
			Width of Entry & Exit provided on approach road/s: 12.0 m						
			 Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 						
			•	•	•	•			
47	Dataile at (s: 12 m & 7.		Control of the control		
17.	Details of 0 Building				-		fixtures in the		
	measures			•		• • •	dscape lighting),		
	proposed.		-	•		-	ed to reduce he		
40				rain water r	iarvesting t	nrough ground	water recharge	elc.	
18.	Energy Requireme		wer supply	l. 4500	12147				
	Source and	۰۰۰۰		nand: 1500	KVV				
	Conservati	ion	nnected loa						
			urce: D.G.\	_					
			•		nventional			p 1	
			•				natural light, CFI	•	
							ergy in external	•	
		,	•	• • •		-	y Ash + Air mix	ture] will	
					tress inside	building etc.			
	<u> </u>		Sets: not						
19.	Fire and Li			r, sprinkler	system and	d fire hydrant s	ystems will be p	rovided	
	Safety Measures	101 111	e safety <u>.</u>						
20.	Details on	staircase							
	Name of	, , , , , , , , , , , , , , , , , , ,	No. of	Floor	No. of	Width of the	Travel		
	Building	of buildings	floors	area	staircase	staircase(m)	distance (m)		
	A to E	Joint	G + 5	527.17	02	1.38	<30		
	F	Single	G + 5	253.03	01	1.38	<30		
	Row houses		G + 1	33.25	01	1.20	<30		
21.	Rain Wate		el of the G	round wate	r table: 80-	100 ft			
	Harvesting	• No.	& dimensi	ons of RW	H tank(s):				
	(RWH)	• No.	and depth	of percola	tions wells :	11 nos., 40 m	1		
		• Det	ails on Pre	-treatment	facilities: C	Gravity filter, M	OC: PE		
22.	Green area	• Tre	e covered	area (m²) :	2,688.09				
	details	• Are	a covered	by shrubs a	and bushes	(m ²): inclusive	e in lawn area		
		• Lav	vn covered	area (m²):	2,169.56				
		• Tot	al Green A	rea (m²): 4	,757.65				
		Green Area % of plot area: 11 %							
			• No. of trees and species to be planted: 865 nos. of trees like Asopalav,						
				•	Badam etc			• ,	
23.	Budgetary	Sr.	· ·				Capital Cost (Rs. In	
	allocation f			De	escription		Lacs)		
	Environme	<u> </u>		scaping			7 Lacs		
	Manageme	ent 2	Grour	ndwater Re	charge Stru	icture	7 Lacs		

	Plan	3 Solar Energy Utilization	5 lacs			
	(Rs. in lacs)	4 Energy Efficient Lighting	3 lacs			
		5 Solid Waste Management	1 lacs			
		6 Monitoring of Air, Water, Noise & S	Soil 0.75 lacs			
			Total 23.75 Lacs			
24.	Proposed dust control measures during the construction phase	Vertical curtails, water sprinkling, covering the building materials with the tarpaulin sheet etc.				
25.	Eco friendly building material usage details.	Fly ash based bricks, Ready Mix Concrete, A.C.C Blocks will be used.				
26.	Amenities for the construction workers.	Sanitation facility, drinking water & tap water, soak pit for domestic waste water collection, first aid box, free medicine, doctor service, PPEs etc.				
27.	Documents related to land possession.	Village form no. 7 & N.A orders for both the survey numbers submitted by them shows that land for residential use is in the name of applicant & others.				

During the meeting, it was presented that they will provide margin of 3.5 m on both the sides of internal roads of 7.5 m width to accommodate car parking outside the premises of row houses. They were suggested to plant trees all along this margin area at certain distances which also facilitates car parking under shadow of the trees. While discussing about the trees existing at the project site, it was presented that there was not any tree existed when they have purchased the land of the project site. After detailed discussion, it was decided to appraise the project further only after submission of the following:

- 1. Exact aerial distance of the project site from the nearest TSDF site & the nearest industrial cluster.
- Status of availability of water supply, drainage connection & municipal solid waste collection facility to the proposed project. Copy of permission or a letter of intent from Bharuch Ankleshwar Urban Development Authority for providing water supply, drainage connection & municipal solid was collection facility to the proposed project.
- 3. Realistic details on activity wise reuse of treated sewage for flushing & gardening purpose considering the availability of garden/ landscape area within premises & soil quality and plan for management of treated sewage considering the same. Realistic details on total water requirement, fresh water requirement, sewage generation quantity and capacity of STP based on it. Treated sewage management plan during the monsoon season when treated sewage utilization for gardening & irrigation purpose is not possible.
- 4. Details on the proposed composting facility to be provided including its size, capacity, method of composting etc. Budgetary allocation for installation, operation & maintenance of the proposed STP & composting facility. Layout plan showing location of proposed STP & composting facility.

3	landmark superstar	Block No. 709, O.P. No. 134, F.P. No. 142,	Screening & Scoping
		TPS No. 17, (Puna), Moje - Puna, Surat.	

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/NCP/51799/2016]

2.	Type of Project	Commercial				
3.	Project / Activity No. [8(a) or 8(b)]	8(a)				
4.	Name of the project	Landmark Superstar				
5.	Name of Developer	M/s. Dreamland Corporation.				
6.	Estimated Project Cost (Rs. In Crores)	Rs. 70 Crore				
7.	Whether construction work has been initiated at site? If yes, details thereof	No				
8.	Project Details	 Land / Plot Area (m²): 8,711.0 FSI area (m²): 34,840.12 Total BUA (m²): 55,293.10 				
			Permissible	Proposed		
		FSI Area (m ²)	19,599.75	34,840.12		
		Ground Coverage(m²)	2,613.30	3,769.12		
		Common Plot Area(m²)	871.88	878.00		
		Max. building height(m)		66.45		
9.	Building Details	 No. of Buildings: 1 No. of Blocks: 1 Scope of buildings/blocks: 2 No. & size of Residential Ur No. & type of Commercial Ur 	nits:			
		• Details of amenities if any: -	-			
10.	No. of expected residents / users	Expected residents: Expected shop users: 900 Expected visitors: 700				
11.	Water & waste	 Water requirement (KL/day) 	: 14.50			
	water details	Source of water: Borewell water:				
	during	 Waste water generation qua 				
	construction	Mode of disposal: Into septi	• ` • •			
	phase	Details of reuse of water	•	ated from washing of		
		equipment will be reused fo	. ,	•		
12.	Water & waste	Total water requirement (KL)				
	water details	Fresh water requirement (K.)	• ,			
	during operation	Source of water: Water sup	• /	Corporation (S.M.C)		
	phase	•	•	Corporation (S.IVI.C)		
		Waste water generation quality Made of disparely Sawage	• ` • ,	no area ated into the sure		
		Mode of disposal: Sewage & black sewage. Grey sew for grey sewage. Treated grey sewage.	age will be treated in the ey sewage will be used	ne proposed onsite STP for gardening & flushing		
	purpose within premises and remaining quantity of treated grey s					

		along with the untreated black sewage will be discharged into the underground drainage line of S.M.C. In case of STP provision, capacity of STP: Yes. Grey Sewage Treatment Plant - 40 KL/day. STP Technology: Grey Sewage Treatment Plant Purposes for treated water utilization: Treated sewage will be utilized for gardening and toilet flushing Quantity of treated water to be reused:1.Gardening (KL/day): 3.50 2. Flushing (KL/day): 16.0 Provision of dual plumbing system (Yes/No): Yes Quantity and type (treated/untreated)of sewage to be discharged: Sewage to be generated will be segregated into the grey & black sewage. Grey sewage will be treated in the proposed onsite STP for grey sewage. Treated grey sewage will be used for gardening & flushing purpose within premises and remaining quantity of treated grey sewage along with the untreated black sewage will be discharged into the underground drainage line of S.M.C. Mode of disposal: As above.				
13.	Status of water supply and drainage line	available to the completion of the	project at the construction pha	time of getting E	connection, which will be B.U permission only after	
14.	Solid waste Management	Top Soil Other excavated earth	Se: Generation (m³)	Quantity to be reused (m³) 439.0 1,424.32 m³ will be reused for back filling.	Mode of Disposal / Reuse Reuse for developing garden area Disposal to other project site in consultation with SMC	
		Construction debris	581	276 m ³ will be reused as a filler up to plinth level.	Remaining quantity will be reused for outer road development	
		Steel scrap Discarded packing materials	14		Sold to local scrap vendors Sold to local vendors	
		Operation Phase: Type of waste	Generation Quantity (Kg/day)	Mode of wast collection	te Mode of Disposal / Reuse	
		Dry waste	108.00	Blue colour bucket		

	T	T		1 .	1	
		Wet waste	72.00	Green colour	Through door to	
				bucket	door waste	
					collection	
		STP Sludge	05	On SDB	system of SMC	
		STP Sludge	05	OII SDB	Disposal through door to	
					door waste	
					collection	
					system of SMC	
		Details of segre	gation if to be do	one: Separate bii	ns will be provided	to
		collect dry and w	•	•	•	
		,		s to be placed with	nin premises: 2.0 m3	3 in
		1	vro wooto will bo	ultimataly diana	and by local author	·i+. /·
		Khajod Landfill S		ultimately dispos	sed by local author	пу.
15.	Parking Details	 Total parking are 	a requirement for	the project as per	GDCR:10,452.03 m	2
		 Parking area req 	uirement for Comr	mercial units as pe	er GDCR:10,452.03 i	m²
		Total number of	CPS requirement t	for the project as p	oer NBC : 140	
		Number of CPS	requirement for co	mmercial units as	per NBC: 140	
			•		15.0 m ² & 610 CPS	
		_			S: 12,013.0 m ² & 37	6
		CPS.		() 6	,	
			vided as open sur	face (m²) & No. of	CPS: 1332.50 m ² &	48
		CPS.	riada ad opon dan		01 01 1002100 III G	.0
			vided as mechanic	cal parking in uppe	er basement (m²) &	
			9.50 m ² & 186 CPS		or bacomont (m) a	
16.	Traffic				n N direction & 18.0) m
	Management	wide road in W d	•	III Wido rodd ii	THE GITCOMOTE OF TOTAL	,
		Number of Entry	v & Exit provided	d on approach ro	oad/s: 3 gates will	be
		provided.	, ,			
		•	Exit provided on a	pproach road/s: 7	.50 m	
		-			for easy access of	fire
			the width for the	•	•	5
		Width of all interr	•	r.aa	•	
17.	Details of Green			tank instead of d	irect flushing in toile	ote.
'''	Building	•	·		LED lights for comm	
	measures	, , ,	•	•	white tiles in comm	
	proposed.			•		
				i, provision or sev	vage treatment plan	ια
18.	Energy	reuse of treated se	waye etc.			
10.	Energy Requirement,	Power supply Maximum damen	A. 4500 IOVA			
	Source and	Maximum demar	ia: 1500 KVA			
	Conservation	Connected load:				
		Source: DGVCL				
				-	ommon building are	
		•		•	through solar pane	
		reflective/ white t	iles in common ar	eas, maximum us	e of natural light, the	ree

		non of color penals, each of 1.2 I/MII consolity, an terrope floor ata						
			nos. of solar panels, each of 1.2 KWH capacity, on terrace floor etc. • DG Sets					
					tu of the DC oot	o. 02 v 1	25 IZ\/A	
				-	ty of the DG set			J (HCD) 8 guantity EE I /h
				ruei & its quan in each	illy. Low Sulphu	ıı mığn sı	beed Diese	el (HSD) & quantity 55 L/h
				iii c acii				
19.	Fire and Life Safety Measures			 Fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system (in passages of all floors & basements), manually operated electric fire alarm system, automatic detection & alarm system, underground fire water storage tank (100 KL x 2 nos), terrace tanks of 10 KL x 2 nos., provision of pump: one electric & one diesel pump of capacity 1,620 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm2 at terrace level etc. The nearest fire station is Dumbhal fire station which is about 2 km away from the project site and a fire tender will take approximately 5-10 minutes 				
				to reach the pro	oject site.		·	
20.	Details on	staircas	se					
	No. of Floor	Floor Area (m²)	l	No. of staircase	Width of Staircase (m)	No. of Fire Lift	No. of Lift	Maximum Travel Distance up to the Staircase < 30 m
	Ground	2,582.8	22	02 Escalator –	2.0	02	19	
	floor	2,302.0	01	02 13				
	1 st to			02				
	10 th	3,057.9	98	Escalator –	2.0	02	19	
	floor 11 th			0 1				
	floor	1,407.	50	01	2.0	02	06	
21.	Rain Wate		•	Level of the Gr	ound water table	e:		
	Harvesting (RWH)	g			ons of RWH tank	(s) : 05 r	o. of RWH	I tanks;
	(120011)			size: 4m x 3m x				
				size of Bore: 35				
				size of pipe: 15				
				•	of percolations v		•	,
							•	amber will be provided to
22	Cross see		_		ove floating mat		ugn bar sc	reen.
22.	Green are details	a			orea (m²) : 358.0		2\.	
	dotallo				y shrubs and bu	isnes (m):	
				Lawn covered	` ,			
				Total Green Ar		ΛQ 0/		
					of plot area: 10		SO troop of	Gulmohar, Neem tree,
					•	-	00 11662 01	Guinionai, Neelli liee,
		Coconut palm, Asopalav, Champa etc.						

23.	Budgetary				
	allocation for Environmental Management Plan	Sr. No	Particulars	Approximate recurring cost per annum (Rs. In Lacs)	Approximate Capital cost (Rs. In Lacs)
	(Rs. in lacs)	1.	Air pollution	0.50	1.00
		2.	Water pollution	0.50	20.00
		3.	Solid and hazardous waste management	0.50	0.50
		4.	Green belt development	0.35	1.25
		5.	Rain water harvesting	0.50	4.00
			Total	2.35	26.75
24.	Proposed dust control measures.		sprinkling, covered shed for ceme cavated earth & construction materi		, tarpaulin cover
25.	Use of Eco – friendly building materials.	Use of fly ash bricks & aerated blocks for water partition, paving blocks for parking areas & walk ways, Portland Pozzolona Cement for RCC structure, plaster & flooring etc.			
26.	Details on amenities to be provided to construction workers.	Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.			

During the meeting, it was presented that the project was to be developed by M/s Landmark Empires as per the form - I & IA submitted along with the application, but now the project will be developed by M/s Dreamland Corporation. The project proponent was asked to submit form-I & IA with revised details. Further it was presented that loading-unloading activity will be carried out in small tempo of size 2.0 m x 3.0 m. Loading-unloading activity will take approximate 30 min for each tempo. Considering the fact that total loading / unloading activity will take for 1800 times/day (6 times for each textile house x 300), it is assumed that total 30 tempos will be engaged in the loading / unloading activity at a time within premises and hence they have provided space for parking of 30 tempos at a time for loading / unloading. Traffic survey carried out on 60 m wide canal road approaching the project site, shows that the level of service of the road will be same as excellent "A" in existing as well as in the proposed scenario. There will be provision of natural ventilation in the form of air cut outs & mechanical ventilation system, LED lights connected with solar panels, CO sensors connected with automatic alarm system & mechanical ventilation system (i.e exhaust fans), oxygen level sensors with alarm system etc. in the basement. While discussing about the electrical fittings to be provided in the proposed textile house it was presented that there will be provision of one automatic power ON/OFF switch (MCB/RCB) for each textile house in case of fluctuation or higher power load to prevent electric overloading or sparkling. It was presented that they will provide ISO & DGMS approved flame proof electrical fittings. After detailed discussion, it was decided to appraise the project only after submission of the following:

1. Revised Form – I & Form – IA with the change in name of the applicant / project proponent. Land possession documents showing the ownership of land by the applicant, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site for commercial use or a copy of documents showing the correspondences made in this regard and a copy of agreement made

between the land owners & developers (if any).

- 2. Realistic details on the travel distance of the staircases from the farthest corner of the floor and between the two consecutive staircases.
- 3. Details on budget allocated for the installation, operation & maintenance of the proposed Grey Sewage Treatment Plant. Location of the proposed Grey Sewage Treatment plant on the layout plan.
- 4. Lay out plan showing the areas designated for loading / unloading activity.
- 5. Plans showing the proposed fire fighting installations and floor wise evacuation plan in case of emergency.
- 6. Permission from the concerned competent authority for the proposed FSI of the project.
- 7. A notarized undertaking stating that any kind of manufacturing activity will not be allowed in the textile houses of the proposed project and any textile house will not be sold / allotted for storage of chemicals, flammable substances, explosives, fire crackers or any other material of hazardous characteristics.

4	Vinodbhai P. Asodaria	Block No. 70, Moje-Bagusana, Bharuch	Screening & Scoping

Sr. No.	Particulars	Details				
1.	Proposal is for	New Project [SIA/GJ/NCP/58403/2016]				
2.	Type of Project	Residential				
3.	Project / Activity No. [8(a) or 8(b)]	8(a)				
4.	Name of the project	Residential Project				
5.	Name of Developer	Mr. Vinodbhai P. Asodaria				
6.	Estimated Project Cost (Rs. In Crores)	28 Crore				
7.	Whether construction work has been initiated at site? If yes, details thereof	No.				
8.	Project Details	• Land / Plot Area (m ²): 61,62	0.0			
		• FSI area (m²): 23,613.73				
		• Total BUA (m²): 25,761.49				
			Permissible	Proposed		
		FSI Area (m ²)	61,525.24	23,613.73		
		Ground Coverage (m ²)		11,392.50		
		Common Plot Area (m²)	6,152.52	6,993.92		
		Max. building height (m)		6.60 m		
9.	Building Details	No. of Buildings: 375 Row Houses.				
		• No. of Blocks:				
		• Scope of buildings/blocks: (Ground + 1 floor & (Ground floor		
		• & size of Residential Units: 3	375 Nos. (1 BHK- 2	95 & HK -80)		

	1				
	No. & type of Commercial Units: -				
Details of amenities if any: No					
10. No. of expected residents / users 1687 nos. residential users					
11. Water & waste • Water requirement (KL/day): 15.95					
water details • Source of water: Local water tankers					
• Waste water generation quantity (KL/day): 1.15					
construction phase Mode of disposal: disposal through onsite septic tall	nk and soak pit				
Details of reuse of water, if any: washing w	=				
equipments will be reused for curing					
12. Water & waste • Total water requirement (KL/day): 326.0					
water details • Fresh water requirement (KL/day): 136.0					
during operation Source of water: water supply from BALIDA					
phase Waste water generation quantity (KL/day): 200.0					
Mode of disposal: Sewage to be generated from	m the project will be				
treated in the proposed onsite STP and reused f					
gardening purpose within premises and irrigation pu	irpose.				
In case of STP provision, capacity of STP: 250 KL/c	day				
STP Technology: Conventional with primary, see	condary & treatment				
facilities.	•				
Purposes for treated water utilization: Toilet Flushing	g and Gardening				
Quantity of treated water to be reused: 1.Gardening	(KL/day):101.0				
2. Irrigation ((KL/day): 89.0				
Provision of dual plumbing system (Yes/No): Yes					
 Quantity and type (treated/untreated)of water to be 	discharged: Sewage				
to be generated from the project will be treated in	the proposed onsite				
STP and reused for toilet flushing and garde	ning purpose within				
premises and iirrigation purpose.					
Mode of disposal: as above.					
13. Status of water supply and drainage line					
14. Solid waste Construction Phase:					
	ode of Disposal /				
(m³) reused (m³) Re	euse				
Top Soil 1000 1000 Ex	cavated surplus				
ea	arth and				
co	enstruction debris				
	Il be refilled at low				
	ng areas in the				
	oject premises and				
	p soil will be reused				
debris	r development of				
	eenbelt.				
Steel scrap 2.6 MT 2.04 MT W	ill be sold to scrap				

		Discarded	1 MT		Will be sold to	
		packing			recycler	
		materials		1		
		Operation Phas	e:			
		Type of waste	Generation	Mode of	Mode of Disposal /	
			Quantity	waste	Reuse	
		Danisa	(Kg/day)	collection	Th	
		Dry waste Wet waste	1012 Kg	Into bins to be provided for	The non- biodegradable	
		Wet waste		each individual unit.	wastes will be sold to recyclers and the	
					biodegradable wastes will be collected and	
					disposed through composting process.	
		STP Sludge	200 Kg		Reused as manure in gardening and irrigation	
45	Dayling Dataila	collected in set Capacity and liter each; 15 Disposal: The biodegradable process. Landfill site w No	eparate bins. no. of communinos. of bins; non-biodegrada e wastes will be o	ty bins to be place ble wastes will be collected and disp be ultimately dis	degradable wastes and ced within premises: 140 e sold to recyclers and the osed through composting posed by local authority:	
15.	Parking Details	Number of CFTotal Parking	 Total number of CPS requirement for the project as per NBC: 188 Number of CPS requirement for residential units as per NBC: 188 Total Parking area provided (m²) & No. of ECS: 10,349.92 m², 450 nos. Parking area provided as open surface (m²) & No. of ECS: 10,349.92 m², 450 nos. 			
16.	Traffic Management		•	: 18 m wide road ded on approach	road/s: One gate will be	
		 Width of Entry Minimum widt fire tender (ex 	h of open path a	for the plantation	Idings for easy access of	
17.	Details of Green Building measures proposed.	Maximum utilization of natural light, CFL lighting fixtures in the common areas, use of solar energy in external lighting (Landscape lighting), aerated block [Cement + Fly Ash + Air mixture] will be used to reduce heat stress inside building, rain water harvesting through ground water recharge etc.				
	' '	inside building,	iaiii watei iiaives	sung unougn grou	ind water recharge etc.	

	Doguiromant	Massina	um domandi 1500 KM				
	Requirement, Source and		um demand: 1500 KW cted load:				
	Conservation		e: D.G.V.C.L				
		0,	saving by Non-conventional Methods:				
			v saving measures: Maximum utilizati	•			
			fixtures in the common areas, use of				
		-	lighting (Landscape lighting), aerated block [Cement + Fly Ash + Air				
			mixture] will be used to reduce heat stress inside building etc.				
		• DG Se	ts: not proposed.				
19.	Fire and Life						
	Safety						
20.	Measures Details on stairea	co: one ct	aircase of 1.2 m width will be provided in	each individual row			
20.	house.	se. one st	ancase or 1.2 m width will be provided in	each individual fow			
21.	Rain Water	• Level o	of the Ground water table: 80-100 ft				
	Harvesting		dimensions of RWH tank(s):				
	(RWH)		d depth of percolations wells : 16 nos., 4	0 m			
			on Pre-treatment facilities : Gravity filter				
22.	Green area		overed area (m ²): 3,776.87	, •			
	details	 Tree covered area (m): 3,776.67 Area covered by shrubs and bushes (m²): inclusive in lawn area 					
	dotallo	• Lawn covered area (m²): 6,381.94					
		·					
		• Total Green Area (m²): 10,158.81					
		• Green Area % of plot area: 16 %					
		No. of trees and species to be planted: 1250 nos. of trees like Asopalav,					
			hor, Palm, Ficus ,Badam etc.				
23.	Budgetary	Sr.	Description	Capital Cost (Rs. In			
	allocation for Environmental	No. 1	·	Lacs)			
	Management	2	Landscaping Groundwater Recharge Structure	6 Lacs			
	Plan	3	Solar Energy Utilization	3 lacs			
	(Rs. in lacs)	4	Energy Efficient Lighting	2 lacs			
	,	5	Solid Waste Management	2 lacs			
		6	Monitoring of Air, Water, Noise & Soil	0.75 lacs			
			Total	19.75 Lacs			
24.	Proposed dust control		curtails, water sprinkling, covering the busheet etc.				
	measures						
	during the						
	construction						
25.	phase Eco friendly	Fly ach h	pased bricks, Ready Mix Concrete, A.C.C	Rlocks will be used			
۷٥.	building material	i iy asii k	based blicks, iteatry with colleter, A.C.C	שווו של useu.			
	usage details.						
26.	Amenities for	Sanitatio	n facility, drinking water & tap water, soa	k pit for domestic waste			
	the construction workers.		llection, first aid box, free medicine, doct	·			
27.	Documents	Village fo	orm no. 7 as on 14/01/2016 submitted by	them shows that the N.A			
	related to land	land for I	esidential use is in the name of applican	t & others.			

possession		

During the meeting, it was presented that they will provide margin of 3.65 m on both the sides of internal roads of 7.5 m width to accommodate cars parking outside the premises of row houses. It was observed that a gas pipeline & an overhead high tension line are passing through the project site. A plan showing provision of 15 m margin on both the side of the gas pipeline has been submitted. After detailed discussion, it was decided to appraise the project further only after submission of the following:

- Status of availability of water supply, drainage connection & municipal solid waste collection facility to the proposed project. Copy of permission or a letter of intent from Bharuch Ankleshwar Urban Development Authority for providing water supply, drainage connection & municipal solid was collection facility to the proposed project.
- 2. Realistic details on activity wise reuse of treated sewage for flushing & gardening purpose (considering the availability of garden/ landscape area within premises & soil quality) and revised water balance details as well as plan for management of treated sewage considering the same. Treated sewage management plan during the monsoon season when the treated sewage utilization for gardening & irrigation purpose is not possible.
- Details on the proposed composting facility to be provided including its size, capacity, method of composting etc. Budgetary allocation for installation, operation & maintenance of the proposed STP & composting facility. Layout plan showing location of proposed STP & composting facility.
- 4. Authentic supporting documents showing the width of the margin required to be left on both the sides of the gas line passing through the premises or a copy of permission obtained from concerned competent authority in this regard.
- 5. Copy of permission, if any, from concerned competent authority with regards to the overhead high tension line passing through the project site.

5	Celebration homes	Block No. 43, O.P. No. 15, F.P. No. 15, TPS	Screening & Scoping /
		No. 21, (Sarthana - Simada), Surat.	appraisal

Sr. No.	Particulars	Details
1.	Proposal is for	New Project[SIA/GJ/51938/2016]
2.	Type of Project	Residential
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Celebration Homes
5.	Name of Developer	Mr. Satishbhai Gabhrubhai
6.	Estimated Project Cost (Rs. In Crores)	Rs. 90 crores
7.	Whether construction work has been initiated	No

	at site? If yes, details thereof						
8.	Project Details	 Land / Plot Area (m²) 11,181.47 FSI area (m²): 29,457.60 Non FSI area (m²): 14,963.2 Total BUA (m²):44,420.8 					
		Permissible Proposed FSI Area (m²) 30,021.96 29,457.60 Ground Coverage (m²) 3,186.43 2,426.88 Common Plot Area (m²) 1,120.07 1,120.07 Max. building height (m) 65 m 44.90 m					
9.	Building Details	 No. of Buildings:8 No. of Blocks:8 Scope of buildings/blocks: Basement + hollow plinth + 14 floors. No.& size of Residential Units:224 units No. & type of Commercial Units: Details of amenities if any:Club house 					
10.	No. of expected residents / users	1008					
11.	Water & waste water details during construction phase	 Water requirement (KL/day): 15.0 Source of water: Water supply from SMC. Waste water generation quantity (KL/day): 2.1 Mode of disposal: Into drainage line of SMC. 					
12.	Water & waste water details during operation phase	 Fresh water requirement (KL/day): 145.0 Source of water: Water supply from SMC. Waste water generation quantity (KL/day): 112.0 Mode of disposal: Into drainage line of SMC. 					
13.	Status of water supply and drainage line	Both drainage and water supply lines are available in the area.					
14.	Solid waste Management	Construction Phase: Generation (m³) Top Soil Soil Generation (m³) Top Soil Soil Generation (m³) Degree reused (m³) For Soil Utilized for greenbelt development Soil will be utilized at other project site after obtaining necessary permission if any					

	excavated earth Construction debris Steel scrap	18213 m ³ 15kg/day 15kg/day 6kg/day	6708 m ³	6708 m³ of excavated Soil will be utilized for back filling within site. Excess soil of 11,505 m³ will be utilized at other project site after obtaining necessary permission if any Sold off to recyclers	
	Operation Phase Type of waste Dry waste Wet waste	e: Generation Quantity (Kg/day) 150 kg/day 152 kg/day	waste collection Into separation bins to b provided within	Reuse n arate Will be collected through door to door waste collection system of SMC for	
	provided to ea Capacity and it bins having ca waste will be p Landfill site w	 premises. final disposal at Khajod disposal site. Details of segregation if to be done: Separate bins for dry and wet was provided to each unit Capacity and no. of community bins to be placed within premises: 8 nos bins having capacity of 25 kg each for dry waste and 8 nos. of 25 kg for waste will be provided to building. Landfill site where waste will be ultimately disposed by local author 			
15. Parking Details	 Total parking a Parking area r Total number o Number of CP Total Parking a Parking area r 236 CPS 	• Parking area provided in hollow plinth (m²) & No. of ECS: 1,184.21 m² and			
16. Traffic Manageme	 Number of En and exit provid Width of Entry Minimum width 	ent public roads:18 m wide TP road try & Exit provided on approach road/s: One Separate entry ded & Exit provided on approach road/s:7.5 m h of open path all around the buildings for easy access of fire ling the width forthe plantation):7.5 m			

1		Width of all	Linternal ro	ads: 7.5 m			
17.	Details of Green Building measures proposed.	Provision to flush water or rain water had light, roof-top appropriate of	install aera closets in to arvesting go thermal in design to sh	ated coke (soilet and presound waternsulation, Claut out excess	essure reducing recharge, max FL lighting fixtu	wash basins, kitc g valves in water timum utilization of res in the common n loss, use of solated blocks etc.	pipeline, of natural on areas,
18.	Energy Requirement, Source and Conservation	Connected load:1200 KW					propriate nergy in
19.	Fire and Life Safety Measures	 During the construction phase: Fire extinguishers at various locations are easily accessible, to keep printed board showing important telephonumber of fire, ambulance, hospital etc. training to the workers on safe aspects, first aid box at identified places within premises, doctor ambulance services, provision of PPE'S like helmet, gumboot/safety sho safety net, safety goggles etc. During the operation phase: Fire extinguishers, hose reel, wet rismanually operated electric fire alarm system, terrace fire water tank of KL capacity, underground fire water tank of 100 KL capacity, smoke detectors etc. Nearest fire station: Varachha fire station. 					elephone on safety doctor & ty shoes, ret riser, ink of 20
20.	Details on stair Type & no. of buildings	case	rom project Floor area	No. of staircase	Width of the staircase	Travel distance (m)	
	A,C,E,G 4 nos of building	B+G+14 floors	237.48	1	2.0 m	Less than 15 m	
	B,D,F,H 4 nos of Building	B+G+14 floors	288.87	1	2.0 m	Less than 15 m	
21.	Rain Water Harvesting (RWH)	Level of theNo. & dimeNo. and de	ensions of Repth of perce	RWH tank(s) olations well	:- s:3		
		 Details on proposed 	Pre-treatm	ient facilitie	s :only roof to	p rainwater harv	esting is

	details	Area covered by shrubs and bushes (m²): 300
		Lawn covered area (m²): 400
		Total Green Area (m²): 1,300
		Green Area % of plot area: 9%
		No. of trees and species to be planted: 300
23.	Budgetary allocation for Environmental Management Plan(Rs. in lacs)	Green belt development : 70 Lacs Drainage and rain water harvesting: 50 lacs Solar and energy saving: 30lacs Total: 150Lacs
24.	Proposed dust control measures during the construction phase	Loading & transportation in covered trucks, covered shed provided for cement unloading activity, temporarily wind screen around project site, sprinkling of water on roads and in vicinity of storage area.
25.	Eco friendly building material usage details.	Fly ash brick, aerated blocks, paving blocks, RMC, lead free paints etc.
26.	Basic amenities to be provided to construction workers.	Drinking water & tap water, sanitation facilities, first aid box, free medicines, doctor service, PPEs etc.
27.	Documents related to land possession.	Village form no. 7/12 submitted by them shows that the agricultural land of the project site is in the name of applicant Mr. Satishbhai Gabhrubhai and a copy of application made for obtaining N.A permission has been submitted.

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

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

6	Mavberry Villa-Phase-2	Block No. 89. Moie Virwadi. Navsari.	Screening & Scoping

Sr. No.	Particulars	Details
1.	Proposal is for	New Project
2.	Type of Project	Residential
3.	Project / Activity No. [8(a) or 8(b)]	8(a)
4.	Name of the project	Mayberry Villa Phase - 2
5.	Name of Developer	M/s. Calypso Developers.

6.	Estimated Project Cost (Rs.	Rs. 55.0 Crore				
7.	In Crores) Whether					
	construction work has been					
	initiated at site?					
	If yes, details thereof					
8.	Project Details	• Land / Plot Area (m²): 45,	628.0			
		• FSI area (m ²): 29,783.98				
		• Total BUA (m²): 32,402.4	8			
			Permissible	Proposed		
		FSI Area (m ²)	48,779.28	29,783.98		
		Ground Coverage (m ²)	16,259.76	14,891.99		
		Common Plot Area (m²)	4,562.80	16,523.00		
		Max. building height (m)		6.85		
9.	Building Details	No. of Buildings/Row Hou	ses: 278 Nos.			
		Scope of buildings/blocks	: Row houses of G	round floor + 1 floor.		
		No. & size of Residential	Jnits: 278 Nos.			
		No. & type of Commercial Units:				
		Details of amenities if any:				
10.	No. of expected	Expected residents: 1390				
	residents / users	Expected shop users:				
11.	Water & waste	Expected visitors: 350	- 1- 10 0			
11.	water details	Water requirement (KL/day): 16.0				
	during	Source of water: Bore well (Water level depth: 12 meter) Waste water and a restrict and a second to (ICL (depth)) 0.550.				
	construction	Waste water generation quantity (KL/day): 2.52 Made of diagnostic late continues and a section of the continues and the continues are also as a section of the continues				
	phase	Mode of disposal: Into septic tank & soak pit. Details of rouge of water if any W/W generated from weeking of				
		 Details of reuse of water, if any: W/W generated from washi equipment will be reused for curing after necessary treatment. 				
12.	Water & waste	Total water requirement (cooary irealinelli.		
12.	water details	Fresh water requirement	• •			
	during operation	Source of water: Borewel	` • ,			
	phase	· · · · · · · · · · · · · · · · · · ·				
			• ` • • • • • • • • • • • • • • • • • •	ited from the project will be		
		•	•	• •		
		treated in the proposed onsite STP and reused completely for toilet flushing and gardening purpose within premises and irrigation purpose. • In case of STP provision, capacity of STP: 200 KL/day				
		 In case of STP provision, capacity of STP: 200 KL/day STP Technology: Conventional with primary, secondary & treatment 				
		facilities.	With print	a.,, cocoaa., a troatmon		
		Purposes for treated water	r utilization: Toilet	Flushing and Gardening		
		Quantity of treated water				
		, , , , , , , , , , , , , , , , , , , ,		shing (KL/day): 66.0		
		Provision of dual plumbing		• • • • • • • • • • • • • • • • • • • •		
		•	• • • •	er to be discharged: Sewage		

		to be generated	d from the pro	oject	will be treat	ted in t	the proposed onsite
		_	•	•			ing purpose within
		premises.					
		Mode of disposa	al: as above.				
		• It is proposed	to store treat	ed se	wage in th	e stora	age tank of 600 KL
		capacity during monsoon season when treated sewage utilization for					
		gardening purpo	<u> </u>				
13.	Status of water supply and	treated in the pro	posed onsite	STP	& treated		ed. Sewage will be will be completely
14.	drainage line Solid waste	used for gardenin Construction Phase		urpos	е.		
'	Management	Construction in the	Generation	Qua	intity to be	Mode	of Disposal /
	a.ragee.ra		(m³)		sed/used	Reus	
		Top Soil	8,261.50		3,261.50	garde	en area
		Other excavated earth		34	4,221.00	Said arrang site/ suppl	earth will be ged from our other nearly local ier
		Construction debris	340		162	plinth remai for	level and level and level and level and level and level outer road opment
		Steel scrap	13			Sold vendo	to local scrap
		Discarded packing materials	08			Sold t	to local vendors
		Operation Phase:					
		Type of waste	Generation Quantity (Kg/day)	1	Mode of w collection	aste	Mode of Disposal / Reuse
		Dry waste	500.40		Blue co bucke		Into dustbin of nearby Gram Panchayat.
		Wet waste	333.60)	Green co bucke		Collected and composting within premises. Fertilizer will be used in garden as a manure
		STP Sludge	15		On SE		Reused in gardening as manure within project premises
		_	•	e do	ne: Separat	te bins	will be provided to
		collect dry and					
		Capacity and not	o. of communit	ty bins	s to be place	ed with	in premises:

	<u> </u>	a Landfill site where weets will be ultimately disposed by local sytherity
		 Landfill site where waste will be ultimately disposed by local authority MSW will be disposed to the nearest Navsari Nagarpalika site.
15.	Parking Details	 Total parking area requirement for the project as per GDCR: 4,467.60 m² Parking area requirement for residential units as per GDCR: 4,467.60 m² Total number of CPS requirement for the project as per NBC: 139 Number of CPS requirement for residential units as per NBC: 139 Total Parking area provided (m²) & No. of CPS: 8,411.0 m² & 329 CPS Parking area provided in hollow plinth (m²) & No. of CPS: 4,718.0 m² & 168 CPS. Parking area provided as open surface (m²) & No. of CPS: 3,693.0 m² & 161 CPS
16.	Traffic Management	 Width of adjacent public roads: 12 m wide road in W direction Number of Entry & Exit provided on approach road/s: one gate will be provided. Width of Entry & Exit provided on approach road/s: 7.62 m Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m Width of all internal roads: 7 m, 7.6 m & 9 m.
17.	Details of Green Building measures proposed.	Use of fly ash based material, flush tank instead of direct flushing in toilets foam type aerated coke, rain water harvesting, use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles in common areas, maximum use of natural light, provision of sewage treatment plant & reuse of treated sewage etc.
18.	Energy Requirement, Source and Conservation	 Power supply Maximum demand: 1500 KVA Connected load: Source: DGVCL Energy saving measures: use of LED lights for common building areas garden & basement & these LED lights will run through solar panels reflective/ white tiles in common areas, maximum use of natural light etc. DG Sets: Not proposed.
19.	Fire and Life Safety Measures	The nearest fire station is Navsari fire station, which is at a distance of 5.3 km from the project site. A fire tender can take 15-20 minutes to reach the project site in case of emergency.
20.	Details on staircase	One staircase will be provided in each row house.
21.	Rain Water Harvesting (RWH)	 Level of the Ground water table: No. & dimensions of RWH tank(s): 23 no. of RWH tanks; size: 4 m x 3 m x 3 m size of Bore: 350 mm dia. size of pipe: 150 mm dia. No. and depth of percolations wells: 23 nos. of percolating wells, depth will kept 5 m above ground water table. Details on Pre-treatment facilities: A de-silting chamber will be provided to

	-1	1			1 1	
			de-si	It and remove floating material thi	rough bar screen	
22.	Green area details	•	Area Lawr Total Gree No. o	covered area (m ²): 953.0 covered by shrubs and bushes (r covered area (m ²): 15,570.0 Green Area (m ²): 16,523.0 n Area % of plot area: 36.21 % of trees and species to be planted Coconut palm, Asopalay, Champ	: 139 trees of Gulm	ohar, Neem
23.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)		Sr. No.	Particulars	Approximate recurring cost per annum (Rs. In Lacs)	Approximate Capital cost (Rs. In Lacs)
			1.	Air pollution	0.75	1.80
			2.	Water pollution	1.50	50.0
			3.	Solid and hazardous waste management	0.60	1.00
			4.	Green belt development	1.30	5.00
			5.	Rain water harvesting	1.15	13.00
				Total	5.30	70.80
24.	Proposed dust control measures.			sprinkling, covered shed for contraction excavated earth & construction		activity, tarpaulin
25.	Use of Eco – friendly building materials.	Use of fly ash bricks & aerated blocks for water partition, paving blocks for parking areas & walk ways, Portland Pozzolona Cement for RCC structure, plaster & flooring etc.				
26.	Details on amenities to be provided to construction workers.	C	Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc.			

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

1. Copy of permission from Central Ground Water Authority for ground water abstraction for the proposed

project.

- 2. Details on ground water depth & ground water quality in the area (at least 5 borewells) & map showing the sampling locations.
- 3. Location of the proposed STP, composting facility, treated sewage storage tank & fresh water storage tank/s on layout plan of the project.
- 4. Justify the parking area available in hollow plinth in the proposed building construction project comprising of row houses.
- 5. Land possession documents showing the ownership of land by the applicant, list of partners & directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard and a copy of agreement made between the land owners & developers (if any).
- 6. Exact aerial distance of the project site from the nearest water body. Notarized undertaking stating that the water body in the vicinity will be not adversely affected in any case.
- 7. Exact aerial distance of the project site from Purna Wildlife sanctuary.

7	Vision Infrastructure	Block No. 48, 50/p1/p1, 50/p1/p2,50/p2,	Screening & scoping
		53,55,56,75,76/p, Vill. Bakrol, Ta. Waghodia,	
		Dist. Vadodara.	

Sr. No.	Particulars	Details
1.	Proposal is for	New Project [SIA/GJ/52204/2016]
2.	Type of Project	Residential & commercial Project
3.	Project / Activity No. [8(a) or 8(b)]	8 (a)
4.	Name of the project	Residential & commercial Project
5.	Name of Developer	Vision Infrastructure
6.	Estimated Project Cost (Rs. In Crores)	90 Crores
7.	Whether construction work has been initiated at site? If yes, details thereof	No

8.	Project Details	•Land / Plot Area (m²): 1,14,	679.0			
	1 Tojoot Botano	• Net Land / Plot Area (m²): 1				
		•FSI area (m²):69,938.83	, 12,077.73			
		• Total BUA (m ²):74,471.81				
		• Total BUA (III).74,471.81				
			Permissible	Proposed		
		FSI Area (m ²)	80,275.30	69,938.83		
		Ground Coverage (m ²)	39,576.65	33,657.70		
		Common Plot Area (m²)	11,284.44	13,902.79		
		Max. building height (m)	40 m	21 m		
9.	Building Details	No. of Buildings:680 duplex commercial.	es, 7 blocks (Reside	ential & commercial), 1 block		
		No. of Blocks: 680 duplexes block commercial.	s, 7 blocks (Resident	ial cum commercial), 1		
		• Scope of buildings/blocks: 7	residential & comm	ercial blocks – ground floor		
		(parking & shops) + 5 floors		•		
		commercial block – ground	floor only.			
		No. of residential units: 680	duplexes & 132 flats	5.		
		No. & type of Commercial U	•			
		Details of amenities if any: I	•			
10.	No. of expected	3710 occupants and 300 visitors				
	residents / users	·				
11.	Water & waste	Water requirement (KL/day)				
	water details	Source of water: Local water tankers.				
	during construction	Waste water generation qua-	Waste water generation quantity (KL/day): 5.73			
	phase	 Mode of disposal: Into septi 	c tank & soak pit.			
	F	• Details of reuse of water, if	any: No			
12.	Water & waste	Total water requirement (KL)	./day): 562.87			
	water details	• Fresh water requirement (K	L/day): 331.2			
	during operation	• Source of water: Water sup	oly from VUDA			
	phase	Waste water generation qua-	antity (KL/day): 400.2	24		
		Mode of disposal: Sewage to	o be generated will l	be treated in the proposed		
		onsite STP. Treated sewage	e will be used for ga	rdening & flushing purpose		
		within premises. Only remain	ning quantity of trea	ted sewage will be		
		discharged into the drainage	e line of VUDA.			
		•In case of STP provision, ca	pacity of STP: Yes,	2 X 225 KL/day		
		•STP Technology: biological	treatment	,		
		Purposes for treated water		g and flushing		
		 Quantity of treated water to 	`			
				ng (KL/day):169.11		
		Provision of dual plumbing s		• ` ' '		
		• Quantity and type (treated/u	• • •			
		be generated will be treated	•			
.]		will be used for gardening 8	• •			
		remaining quantity of treate	•			
		. Januaring quartity of froate	a corrage will be die	changed into the didinage		

		line of VUDA.					
		 Mode of dispos 	Mode of disposal: as above.				
13.	Status of water supply and drainage line	Available at 2.4	km from the s	te			
14.	Solid waste	Construction P	hase:				
	Management		Generation (m³)	Quantity to reused (m ³			
		Top Soil	750	750	Will be used for greenbelt development.		
		Other excavated earth	14250	14,250	Will be used for back filling and raising plinth level.		
		Construction debris	700	700	Will be used for development of internal road.		
		Steel scrap	25	0	Sold to vendors		
		Discarded packing materials	15	0	Sold to vendors		
		Operation Phas	se:				
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse		
		Dry waste	893.44	White bins	Sold to vendors		
		Wet waste	1,340.16	Green Bins	Hand over to VUDA		
		STP Sludge	20	Green Bins	Hand over to VUDA		
		and 50 number	no. of community	nity bins to be bins to be	placed within premises: 15 ced in common area ly disposed by local autho		
15.	Parking Details	Total parking a Parking area rea	equirement for	residential unit	ct as per GDCR:10,778.04 m s as per GDCR:10,367.72 m hits as per GDCR:410.32 m ²	1 ²	
		•Total number o	f CPS require	ment for the pro	oject as per NBC :256 units as per NBC: 239		
		Number of CPS	S requirement	for commercial	units as per NBC:17 PS: 21,921.78 & 926 CPS		
		Parking area pr	rovided in bas	ement (m²) & N	o. of CPS: 1,386.32 & 43 CF & No. of CPS:1,185.46 &		

		CPS					
		Parking area CPS.	provided as	open surface (m²) & No. of C	PS:19,350 and	841
16.	Traffic Management	Number of I provided.Width of Entland 7.5 m (E	Entry & Exit ry & Exit prov ntry and Exist	provided on a ided on approa)	approach road,	ds on two sides /s: 4 gates wil m (Entry and E easy access of	l be exist)
		,	•	for the plantat 2. 9. 7.5 m	ion): 5.5 m	·	
17.	 Width of all internal roads:12, 9, 7.5 m Details of Green Building measures proposed. Maximum use of natural lighting through architectural design, energy efficient taps, water meters, solar lights in open & landscape areas – 40 nos. of solar lights, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation, rain water harvesting & ground water recharge through 4 nos. of percolating wells, provision of Sewage Treatment Plant and reuse of treated sewage etc. 				en & use tion, ating		
18.	Energy Requirement, Source and Conservation	 Power supply: Maximum demand:4250 KVA Connected load: 4500 KVA Source: MGVCL % of saving with calculations: ~30% by use of LED, solar lights and star rated energy efficient electronic consumer durables Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area DG Sets: No. and capacity of the DG sets:2 X 62.5 KVA 					
19.	Fire and Life Safety Measures • During the construction phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safet aspects, first aid room with first aid kit, doctor & ambulance service. • During operation phase (Commercial): Fire extinguishers, hose reel, down comer, manually operated electric fire alarm system, yard hydrani underground static water storage tank-300 KL capacity, terrace tank -80 Kl capacity (total capacity), pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm2 at terrace level etc.			ll be afety lown rant, 0 KL			
20.	Details on staircas	se					
	Type & no. buildings		Floor area m ²	No. of staircase	Width of the staircase (m)	Travel distance (m)	
	A BC DE F G	HP+ 5 G/HP+ 5 G/HP+ 5 HP+ 5 HP+ 5	276.53 598.69 598.69 285.05 285.05	1 2 2 1	1.23 1.23 1.23 1.23 1.23	13 15 15 14 14	
21.	Rain Water Harvesting (RWH)	•Level of the 0	Ground water sions of RWH	table: 15 m tank(s) : 29 No	and 2.0m X 2.		

		Details on Pre-treatment facilities : oil and grease removal and filter
22.	Green area details	 Tree covered area (m²):4,000 Area covered by shrubs and bushes (m²):3,000 Lawn covered area (m²):6,902.79 Total Green Area (m²):13,902.79 Green Area % of plot area: 10% No. of trees and species to be planted: 1700 number of trees and Limbdo, KaadoSiris, Jambu, Asopalav, DesiBadam and Gulmohar.
23.	Dust control measures	Spraying of water, Peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc.
24.	Budgetary allocation for Environmental Management Plan (Rs. in lacs)	Allocation of Rs. 93 lacs & Rs. 12.5 lacs as capital cost & recurring cost respectively has been made for EMP & EMS.
25.	Details of ecofriendly building materials	Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc.
26.	Details of amenities to be provided to construction workers.	Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules.
27.	Documents related to land possession	Village form no. 7 & 12 for block numbers 50/p1/p1, 50/p1/p2, 50/p2, 56 & 75 shows that the N.A land for residential use is in the name of land owners. N.A order for block numbers 48 & 53 submitted by them shows that the land for residential use is in the name of same land owners. Village form no. 7 & 12 for block numbers 55 & 76/p submitted by them shows that the agricultural land is in the name of the same land owners. The land owners have entered into the development agreement with M/s Vision Infrastructure for the proposed project.

During the meeting, it was observed that an overhead high tension line is passing through the project site. after detailed discussion, it was decided to appraise the project further only after submission of the following:

- 1. Copy of permission obtained for non agricultural use of block numbers 55 & 76/p or copy of correspondences made with concerned authority in this regard.
- 2. Full size project plans showing building wise & floor wise built up area, FSI area, floor area and plot area statement etc.
- Status of availability of water supply, drainage connection and municipal solid waste collection facility by VUDA. A letter from VUDA stating that the above mentioned facilities will be available to the project and also clearly indicating the time limit within which the facilities can be availed to the project.
- 4. Details on actual parking requirement for the project as per NBC norms. Details on plot area of each individual type of duplex, its ground coverage & open area available within premises of each individual

- type of duplex for tree plantation & parking.
- 5. Layout plan showing gates & width of entry / exit, width of internal roads, peripheral open margin, location of STP etc.
- 6. Copy of permission, if any, from concerned competent authority with regards to the overhead high tension line passing through the project site.

8	The Polaris Textile	T.P.S.No.35, Block No.225, F.P.No.20,	Refer back case
	Market	O.P.No.20, Moje Kumbhairia, Choryasi, Surat.	

This is a commercial building construction project which was recommended by the SEAC vide letter dated EIA-10-2015-7199-E-423 dated 24/02/2016. Based on the recommendation of the SEAC, the project was taken up in the meeting of SEIAA dated 26/02/2016. As per the decision taken during the meeting of SEIAA dated 26/02/2016, the project was referred back to SEAC vide letter No. SEIAA/GUJ/EC/8(a)/183/2016 dated 29/02/2016 for the following reason:

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

The project proponent along with their expert consultant attended the meeting and it was presented that the proposed project is completely planned for textile go-downs and hence they have proposed to provide parking as 1 CPS per 250 m² of FSI area of the proposed project as per NBC norms.

After discussing the matter, it was decided to recommend the project again to the SEIAA Gujarat for grant of Environmental Clearance only after submission of the following:

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

9	Vraj Galaxy Apartments I	S.No.94/A,O.P.No.35/2, F.P.No.35/2/1, TPS	Refer back case
		No. 75, Hanspura-Muthiya, Ahmedabad	

This is a Residential building construction project which was recommended by the SEAC vide letter dated EIA-10-2015-6999-E-407 dated 24/02/2016. Based on the recommendation of the SEAC, the project was taken up in the meeting of SEIAA dated 26/02/2016. As per the decision taken during the meeting of SEIAA dated 26/02/2016, the project was referred back to SEAC vide letter No. SEIAA/GUJ/EC/8(a)/176/2016 dated 29/02/2016 for the following reason:

"To verify the details of permissible and proposed ground coverage area"

The project proponent along with their expert consultant attended the meeting and it was presented that due to typographical mistake, permissible ground coverage was written as 2,784.74 m² which is actually 5,812.02 m² and the proposed ground coverage is also 5,812.02 m².

After discussing the matter, it was decided to recommend the project again to the SEIAA Gujarat for grant of Environmental Clearance with the permissible ground coverage of 5,812.0 m² and the proposed ground coverage of 5,812.0 m².

10	Texcore Technologies	Plot No. 3092, Phase-III, GIDC-Chhatral,	Appraisal
	Pvt. Ltd.	Ta- Kalol, Dist: Gandhinagar.	

Project / Activity No.: 5(f)
Project status: Expansion
Chronology of EC Process:

- This project proposed by M/s: Texcore Technologies Pvt. Ltd. (herein after Project Proponent PP) has submitted an application vide their vide their letter dated 13/07/2015.
- This project was considered in the meeting of the SEAC held on 02/02/2016.
- Looking to the low pollution potential of the proposed activity, after deliberation on various aspects, the project was categorised as B2 and the additional information was sought for appraisal of the project.

Project / Activity Details:

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

Sr.	Name of Products	Existing	Additional	Total after
no.		MT/Month	MT/Month	Proposed expansion
				MT/Month
1	Textile Auxiliary by Formulation	200		200
2	Textile sizing Blends (Powder) by Formulation/Blending	200		200
3	Purificaqtion Sodium Sulfate (white powdr)	10	-10	NIL
3	Water soluble acrylamide polymer		50	50
4	Water Soluble polyester-1		75	75
5	Water Soluble polyester-2		75	75

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

Total plot area is 1500 sq. m. Unit has proposed 100 sq. m. area for the green belt development. Total Expected project cost is Rs. 50 Lacs. Total water consumption will be 10.5 KL/day (Industrial – 9.2 KL, Domestic & Gardening – 1.3 KL) which will be sourced from the GIDC supply. There will not be any effluent generation from the industrial activity. Process water requirement is 9.4 KL/day. Water (of reaction) generated is 0.175 KL/day, which will be fully used in process make-up; reducing fresh water requirement. Accordingly up to 9.2 KL/day. Domestic waste water (0.6 KL/day) which will be disposed through septic tank via soak pit. Unit has proposed one TFH (4 Lac Kcal/hr). LDO/HSD (200 lit./hr) will be used as fuel in TFH. The Hazardous waste to be generated from the manufacturing activity will be Distillation residue (1.2 MT/Year), Used oil/spent oil (50 Lit/Year) and Discarded Container (24 MT/Year). Distillation residue will be sent to CHWIF for Incineration. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers. Unit has obtained membership certificate of NECL for CHWIF.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the water of reaction generated from the proposed products, Committee not convinced about the complete reuse of industrial effluent in next batch of the same product. PP has submitted rental agreement for proposed GIDC plot, however, plot holding certificate is not submitted. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

- 1. Plot holding certificate from concerned authority.
- 2. Clarification with technical justification regarding water of reaction (Generation and complete reuse in very next batch of the same product).
- 3. Source of distillation residue and justify the quantity.

	T		
11	Inol Industry LLP	Plot no. C1-475, Road no.4/82-c, GIDC-Sachin,	Appraisal
		Ta.: Choryasi, Dist.: Surat	

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Inol Industry LLP (herein after Project Proponent PP) has submitted an application vide their vide their letter dated 15/09/2015.
- This project was considered in the meeting of the SEAC held on 27/11/2015.
- Looking to the low pollution potential of the proposed activity, after deliberation on various aspects, the project was categorised as B2 and the additional information was sought for appraisal of the project.

Project / Activity Details:

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

Sr.	Name of Products	Quantity
no.		MT/Month
1	Acrylic resin 1	250
2	Acrylic resin 2	150
3	Ploy acrylic ether	19.5
4	Polyamide	104
5	Synplast	430
6	Melamine formaldehyde	13
7	Urea formaldehyde	5
8	Ploy Urethane	5
9	PU-Acrylate	5
10	Epoxy 1	5
11	Epoxy 2	10
12	Ероху 3	10

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 703 sq. m & unit has proposed 200 sq mtr area for the green belt development/Tree

plantation. Expected project cost is Rs.2 Crores. Total water consumption for proposed project will be 21 KL/day (1 KL for Domestic, 0.5 KL for Gardening, 19.5 KL for Process) which will be sourced from GIDC water supply. Industrial waste water generation will be NIL. Domestic waste water (0.6 KL/day) will be disposed off into soak pit system. It is proposed to install one TFH (6 Lac Kcal/hr). LDO (4.5 KL/Month) will be used as fuel for TFH. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be Process residue (spillage, floor cleaning, vessel cleaning etc.), (5 MT/Year), Discarded containers/Bags/Liners (20 MT/Year) and used oil (0.05 MT /Year). Process residue (spillage, floor cleaning, vessel cleaning etc.) will be sent to CHWIF for Incineration Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil will be sold only to the registered recyclers.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. While discussing about Occupational hazard, fire safety and the storage & handling issues regarding various chemicals like TDI, Formalin, EO etc., PP could not reply about the precautionary measures to be taken for the various hazardous chemicals to be used for the proposed project. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

- 1. Compliance of point no. 28 to 32 with all relevant details considering worst case scenarios. .
- 2. Odour control plan as per prevailing guidelines of CPCB.
- 3. Fuel consumption for TFH in KL/Day & KL/hr.

12	Elastopoint Industries	Plot no. C-63,Saykha Industrial Estate, Saykha	Appraisal
		GIDC, Vill:Saykha, Vagra, Bharuch	

Project / Activity No.: 5(f)

Project status: Existing

Chronology of EC Process:

- This project proposed by M/s: Elastopoint Industries (herein after Project Proponent PP) has submitted Application vide their letter dated 19/01/2015.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- The project proponent requested for categorizing the project as B2 and to exempt them from carrying out detailed EIA study. Looking to the small scale of the project, location of the project site, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & 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 21/09/2015.
- The project proponent was called for further appraisal of the project in the meeting held on 14/10/2015.
- During the meeting, Committee observed that PP has submitted inadequate information for most of the details asked in earlier SEAC meeting. PP has not submitted Risk assessment report, mass balance for manufacturing of Phenol Formaldehyde, technical details of evaporator, details regarding fugitive

emissions, details regarding hazardous chemicals & its storage, specific details of Safety & occupational health etc. Copy of plot holding certificate obtained from the GIDC. After detailed deliberations the Committee sought following additional information for further consideration of the proposal: (1) Manufacturing process along with chemical reactions, mass balance for each product. (For all products) (2) Details of provisions to be made for evaporation of industrial effluent. Technical details of effluent evaporation system including evaporation capacity, steam required for evaporation, adequacy of the boilers to supply steam for evaporation in addition to the steam required for the process etc. Technoeconomical viability of the evaporation system. (3) Specific details of (i) Details of the utilities required (ii) Type and quantity of fuel to be used for each utility (iii) Flue gas emission rate from each utility (iv) Air Pollution Control Measures proposed to each of the utility along with its adequacy (v) List the sources of fugitive emission along with its quantification and proposed measures to control it. (4). Specific details of fugitive emission from the unit along with its quantification and proposed measures to control it along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR. (5) 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. (6) 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. (7) 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. (8) 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? (9) Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed. (10) Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances. (11) Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them. (12) Detailed risk assessment report including prediction of the worst-case scenario and maximum credible accident scenario along with damage distances and preparedness plan to combat such situation and risk mitigation measures. Vulnerable zone demarcation. (13) Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related

measures. (14) A tabular chart with index for point-wise compliance of above details.

• The project proponent submitted the additional information vide online proposal no. SIA/GJ/IND/51572/2016 dated 14/03/2016.

Project / Activity Details:

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

Sr. no.	Name of the Product	Capacity, MT / Day		
1	Phenol Formaldehyde Resin			
2	Melamine Formaldehyde Resin			
3	Urea Formaldehyde Resin			
4	Epoxy Resin			
5	Polyamide Resin	10 MT/ Day		
6	Poly Vinyl Acetate Adhesive			
7	Non-reactive poly amide resin			
8	Natural Adhesive			
9	Acrylic Adhesive			
10	Ketonic Resin			

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

Total plot area is 3885.5 sq. m & unit has proposed 1200 sq. m. area for the green belt development/Tree plantation. Expected project cost is Rs.0.8 Crores. Total water consumption for proposed project will be 34.93 KL/D (1.35 KL/day for Domestic, 1.2 KL/day for Gardening & 31.7 KL/day for Industrial). Total fresh water requirement will be 16.93 KL/day as they will reuse 17.32 KL of water from treated effluent from ETP and the Boiler condensate. Fresh water will be sourced from GIDC water supply. Industrial waste water generation will be 5.8 KL/day, which will be treated in proposed effluent treatment plant and treated waste water will be evaporated in steam jacketed Evaporator (Capacity 200 Lit./hr) with Condenser. Domestic waste water (1.2 KL/day) will be disposed off into soak pit system. Flue gas generation will be from Steam Boiler (1 TPH) and D.G. sets (500 KVA). White Coal (1.18 MT/day) will be used as fuel in Boiler. Multi Cyclone Dust collector will be provided as APCM. Diesel (0.2 KL/day) will be used as fuel for DG set. Unit has proposed MDC as APCM. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be ETP sludge & Evaporation residue (60 MT/Year), containers/Bags/Liners (300 no.s/Month) and used oil (200 lit./Year). ETP waste will be disposed off at the common TSDF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers after decontamination. Used oil will be sold only to the registered recyclers.

Observations/Discussion:

Technical presentation made during the meeting by project proponent. Committee noted that unit has submitted point wise reply and covered all details sought during SEAC meeting dated 14/10/2015. Committee noted that the capacity of the evaporator is not adequate and submitted. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

- 1. Details of specific treatment for Phenolic compounds in the effluent.
- 2. Technical details of Evaporator & condenser with adequate capacity.

13	PAB Organics Pvt. Ltd.	Plot no:102-103, GIDC-Nandesari,	Appraisal
	-	Dist.: Vadodara	

Project / Activity No.: 5(f)

Project status: Expansion

Chronology of EC Process:

- This project proposed by M/s: PAB Organics Pvt. Ltd. (herein after Project Proponent PP) has submitted Application vide their letter dated 30/06/2014.
- The project was considered for TOR finalization in the meeting of the SEAC held on 24/02/2015.
- EIA Report prepared by M/s: San Envirotech Pvt. Ltd., Ahmedabad was submitted by project proponent vide their online proposal no. SIA/GJ/IND2/10844/2014 dated 23/03/2016.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Bulk drugs & Intermediates and now unit has applied for expansion in 3 existing products & addition of 39 new products as tabulated below:

Sr. No.	Name of Product	Existing Quantity in MT/month	Addition/ Deletion in MT/Month	Total Proposed Quantity in MT/Month
1.	N-Hydroxy Succinamide	1.5	- 1.5	0
2.	4 (1-Pyrrolidine) Butro Nitrile	1.5	- 1.5	0
3.	2-Chloro Ethylamine Hydrochloride	1.5	- 1.5	0
4.	4-Chloro Phenyl Hydrazine Chloride	1.5	- 1.5	0
5.	5 Amino Phthalide	3.0	- 3.0	0
6.	5 Bromo Phthalide	3.5	+ 11.5	15.0
7.	1,3-Dihydro-1-Oxo-5- Isobenzofuran Carbonitrile (5-Cyano Phthalide)	1.0	+ 9.0	10.0
8.	Schiff Base (1-Cyano(2,3 – Dichlorophenyl Methalene Hydrazine)	1.0	+ 3.0	4.0

	9.	4-(2,3 – Epoxy Propoxy) Carbazole	0.5	- 0.5	0
	10.	5-Cyano Indole		+ 0.5	0.5
	11.	7-Hydroxy-3,-4-Dihydro-		+ 1.0	1.0
		2-(1H)-Quinolinone			
	12.	(±)-3-(Carbamoyl		+ 80.0	80.0
		methyl)-5-			
		methylhexanoic Acid			
	13.	3-(2-Methoxy-5-		+ 2.0	2.0
		Methylphenyl)-3-Phenyl			
		Propyl Methane			
		Sulphonate			
	14.	6-Chloro-3-methyl Uracil		+ 2.0	2.0
	15.	2,3-Di Chloro Benzoyl		+ 15.0	15.0
		Cyanide			
	16.	1-(2,3-Dichlorophenyl)		+ 1.0	1.0
		Piperazine hydrochloride			
	17.	3,4-Dihydro-6-methyl-4-		+ 3.0	3.0
		phenyl-2H-benzopyran-			
		2-one			
	18.	3,4-Dimethoxy Benzyl		+ 20.0	20.0
		Cyanide / Homo			
		Veratronitrile			
	19.	3-Isobutylglutaric acid		+ 20.0	20.0
	20.	2, N-Dimethyl-N-(3, 3-		+ 5.0	5.0
		diphenylpropyl)-1-amino-			
		2-propanol			
	21.	2,6-Dimethyl-5-		+ 4.0	4.0
		methoxycarbonyl-4-(3-			
		nitrophenyl)-1, 4-			
		Dihydropyridine-3-			
		carboxylic acid			
	22.	6-Fluoro-3,4-Dihydro-4-		+ 5.0	5.0
		oxo-2H-1-benzopyran-2-			
		Carboxylic acid		0.0	
	23.	N-Methyl Homoveratryl		+ 6.0	6.0
	0.4	amine		0.05	0.05
	24.	(6S)-4,5,6,7-Tetrahydro-		+ 0.25	0.25
		1,3-Benzothiazole-2,6-			
	05	Diamine		. 40.0	40.0
	25.	®-(-)-3-(Carbamoyl		+ 10.0	10.0
		methyl)-5-			
	200	methylhexanoic Acid		. 0.5	0.5
	26.	2-Methyl-3-Nitrophenyl		+ 0.5	0.5
	27.	Acetic acid		.05	0.5
	۷1.	2-methyl-3-nitro-N,N-di-		+ 0.5	0.5
		n-propyl phenyl ethyl ammonium oxalate.			
	20			120	2.0
	28.	2-Methoxy-5-Methyl-N,N-		+ 2.0	2.0
		bis(1-methylethyl)- gamma-Phenylbenzene			
		Propanamine Fumarate			
	29.	1-[2-Amino-1-(4-		150	5.0
	۷٦.	[4-7\		+ 5.0	5.0

	Total Production	15	+ 245.0	260.0
	products			
	Miscellaneous new		+ 10.0	10.0
48.	R & D Products /			
	Monohydrochloride		1 0.0	0.0
77.	Chloropropyl) Piperazine		+ 5.0	5.0
47.	1-(3-Chlorophenyl)-4-(3-			
46.	hydrochloride Tolterodine tartrate			
45.	Lercanidipine			
	Dihydrochloride			
44.	Pramipexole			
	Dihydrochloride			
43.	Hydroxyzine			
	Succinate			
42.	Des Venlafaxine			
41.	Aripiprazole		+ 20.25	20.25
40.	Betahistine DiHCI	+ 26.25		26.25
39.	Clomifene Citrate			
38.	Febuxostat			
	Hydrochloride			
37.	Dapoxetine			
36.	Fenofibrate	1		
35.	Proguanil HCI			
34.	Venlafaxine HCI			
33.	Homo Veratryl Amine			
32.	Pregabalin			
01.	2-Carboxylate		1 0.0	0.0
31.	Ethyl-5-nitro-Benzofuran-		+ 0.5	0.5
	Cyclohexanol			
30.	Phenyl)-Methyl]		+ 6.5	6.5
30.	Cyclohexanol HCl. 1-[Cyano-(4-Methoxy		+ 6.5	6.5
	Methoxyphenyl) Ethyl]			

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 11708 sq.m (Existing 5854 sq.m and proposed 5854 sq.m). The estimated cost of the proposed project is Rs 36 Crores. After proposed expansion total water consumption will be increased from 42 KL/day to 426 KL/day (403 KL/day Industrial and 23 KL/day – Domestic). Source of the fresh water is GIDC water supply. After proposed expansion, Industrial waste water generation will be increased from 23.2 KL/day to 269 KL/day. RO reject with other softener and DM plant reject will be taken to second RO plant. The RO water generated from the second RO plant will be taken to cooling tower and the reject will be taken for washings and then sent to ETP for its further treatment and disposal. Industrial effluent and washing waste water will be sent to CETP after primary, secondary and tertiary treatment. Domestic waste water (20 KL/day) will be sent to STP. At present unit has provided two Boilers (2 TPH each) and one DG set (250 KVA). Agro Briquettes (150 Kgs/hr) is used as fuel for Boilers. Unit has proposed 2 Boilers (Cap. 4 TPH & 4 TPH), one TFH and one DG set. Agro Briquettes will be used as fuel in Boilers (9 MT/day for each) and TFH (3 MT/day). Diesel (35 Kgs/hr) will be used as a fuel for DG sets. At present water scrubbers and Caustic scrubbers are provided for control of HCL & SO2 gases. Now unit has proposed additional water & Caustic scrubbers for control of NH3, HBR, HCL & SO2 gases. Recovered by-products like HCL, HBr and

Ammonium Sulphate will be sold to the actual users. Hazardous waste to be generated are Used /Spent oil, Discarded containers/ barrels /liners, ETP, Spent Carbon, Spent solvent, Process residue, Distillation residue etc.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Ambient air quality monitoring was carried out at 6 locations from March - 2015 to May – 2015 within 5 KM radial distance for the parameters like PM10, PM2.5, Sulphur Dioxide (SO2), Oxides of Nitrogen (NOx) and VOCs. Committee noted that PP has not covered baseline study of NH3, HBr, HCL HF etc. which are the project specific parameters. Committee asked to submit compliance of relevant TOR regarding baseline study. While reviewing the EIA report, Committee observed that ToR compliance regarding Mass balance, status of CETP performance, Hazardous waste, By-products & Solvent management, Risk assessment prediction etc. are not adequate. While discussing about the management of By-products and spent solvents, PP could not reply satisfactorily. Committee was of view that PP should submit sound management with relevant details for all the By-products/Hazardous waste generated from the proposed project. Committee asked to carry out in-house solvent recovery instead of sending to outsider for solvent recovery and complete re-use of used solvent. PP could not justify about the quantity of R & D products to be manufactured. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

- 1. Details of R&D products with reference to ToR no.4 & 6. Give undertaking that R&D products shall not be sold commercially. Give complete details of Air, Water & Hazardous waste generation from the proposed R&D products and its management.
- 2. Compliance of ToR no. 4, 7, 11, 13, 14, 15, 16, 19, 19, 21, 22 and 39 and its relevant details.
- 3. An undertaking by the Project Proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009.
- 4. Proposal for adequate APCM for Boilers.
- 5. Final report of NEERI validating Hydrodynamic Cavitation technology.

14	Infinium Pharmachem	Plot no. 37,38, 39, Sojitra GIDC, Dist.: Anand.	Screening & Scoping
	Pvt. Ltd.	·	

Project / Activity No.: 5(f)

- M/s: Infinium Pharmacies Pvt Ltd. (herein after Project Proponent PP) has submitted application vide their letter dated 09/07/2015.
- The project was taken up in the SEAC meeting held on 17/11/2015.
- During presentation, Committee noted that unit has proposed two options for disposal of industrial waste water. Committee was of the view that unit should not be allowed to sent their effluent to common facility of SEPL which is located far away from the project site. On asking about the other options for treatment of waste water, PP could not reply satisfactorily. Looking to the location in Sojitra GIDC and type of proposed products, committee unanimously decided to consider the case for screening & scoping only after submission of the following: (1) Name of products generating waste water with quantity per month,

its specific treatment option with technical details. (2) Satellite image of project site (1 KM radius from the boundary of the project site) with specific details such as distance of the project site from the nearest residential habitat. Name and type of surrounding industrial units and impact on it due to proposed project. Name of Chemical units located within GIDC of Sojitra. (3) Documents showing GIDC-Sojitra was established before 14/09/2006.

• The project proponent submitted the additional information vide online proposal no. SIA/GJ/IND/51572/2016 dated 14/03/2016.

Project status: Expansion

Project / Activity Details:

This is an existing unit engaged in manufacturing of Inorganic products and now proposes to manufacture Synthetic Organic Chemicals as tabulated below:

	ne of Products		MT/	/Month
no.		Existing	Additional	Total after proposed expansion
1 <u>In</u>	organic Iodine Derivatives	50		50
Amr Zinc Calc Ioda Sod Iodic Leac Tha Iodic Calc Iodic Star Iodic In A Mor Mor Iodic	ium lodide, Potassium lodide, monium lodide, Copper lodide, coloide, Silver lodide, cium lodate, Pottassium lodate, Pottassium lodate, Soidum lodate, Lithium lodide, Pottassium lodide, Cadmium lodide, Ilium lodide, Antimomny lodide, Antimomny lodide, Hydroiodic Acid, Cium lodide Hydrate, Iodine, lodine lodide Hydrate, Iodine, lodard Solution, Cesium lodide, lodine lochloride 40% Solution locetic Acid, Iodine lochloride 40% Solution loc, Barium lodide Dihydrate, co Acid (Solution), co Acid (Crystal), Per-lodic Acid			
2 <u>C</u>	Organic Iodine Derivatives		50	50
lodo	bbenzene Diacetate,			
Bis	Trifluoro Acetoxy			

	-
4-lodobenzoicacid, 3-lodobenzoic	
Acid	
Methyl Tri Phenyl Phosphonium	
lodide	
Ethyl Tri Phenyl Phosphonium	
lodide	
Iso Propyl Tri Phenyl	
Phosphonium Iodide, 1-	
lodohexane, 1- lodoheptane	
Cyclo Hexyliodide, 4-lodoaniline,	
2-Fluoro -4-Iodoaniline, 1, 4 –	
Diiodobenzene, 4 – Iodophenol, 2	
- lodotoluene, 3 , 5 -	
Diiodosalicylicacid,	
1,3-Diiodo-5,5-Dimethyl	
Hydantoin	
N-Iodo Succinimide, 2 –	
lodophenol,	
lodoform, Tetrabutyl Ammonium	
lodide	
Trimethyl Sulfoniumiodide,	
Chloroiodomethane, Di Iodo	
Methane,	
Ethyl Magnesium Iodide - 1m	
Solution In THF, Methyl	
Magnesium lodide - 1m Solution	
In THF, Thymol lodide, 1,3 –	
Diiodopropane, 1 , 10-	
Diiododecane, 2-Iodoethanol, 1-	
Bromo 2-lodobenzene, 1-Bromo	
4-lodobenzene, 3-lodo-N-Phenyl	
Carbazole, 4-Fluoro Iodobenzene	
2-Nitro Iodobenzene, 2-Iodo	
Aniline	
2-Butyl-3(3,5-Diiodo-4-Hydroxy	
Benzoyl) Benzofuran, Methyl	
Ammonium Iodide, 1,3-Diiodo	
Benzene, 5-lodo Uracil, 1,4-	
Diiodo Butane, 2-Iodoacetic Acid,	
3- Iodo Pyridine, 4- Iodo Pyridine,	
lodophor, Povidone – Iodine	
Powder	
Propidium Iodide, Diiodoethane,	
6- lodo Indazole,	

4-Bromo-2-Iodoaniline, 3- Iodotrifluoride,		
3-Iodoaniline, Diiodo Fluro		
Methane		

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

Plot area is approx. 4098 sq. m. Unit has proposed 1200 sq. m area for green belt/tree plantation. Estimated cost of proposed expansion is Rs. 0.72 Crores. Fresh water requirement after proposed expansion will be increased from 7.3 KL/day to 19 KL/day which will be supplied by the GIDC. Wastewater generation after the expansion will be increased from 0.5 KL/day to 12 KL/day. The unit has existing Effluent Treatment Plant consisting of primary and tertiary treatment facilities. Current mode of disposal is; recycled in Cooling tower make up and plantation /gardening within premises. The Project Proponent is planning to install in-house Single Effect Evaporator to achieve Zero Liquid Discharge. Industrial effluent will be treated in ETP and finally evaporated at in-house Evaporator The capacity of evaporation will be 600 Lit/hour. Domestic waste water (1.5 KL/day) will be disposed off into septic tank/soak pit system.

Flue gas emission details is as below:

j	Sr.No.	Stack	Height	Fuel	APCM	Expected
		attached	of	consumption		Concentration
		to	stack	·		Pollutant
	1	Thermic Fluid heater (3 Lac K cal) – Existing	15 m		None	$PM < 150$ mg/Nm^{3} $SO_{2} < 100$ ppm $NO_{x} < 50$
	2	Hot Water Generator (250 Lit/hr) – Existing	9 m	Coal/wood/agro waste: 1.6 MT/day		ppm
	З	Thermic Fluid heater (6 Lac K cal) – Proposed	15 m		Cyclone separator	
	4	Hot Water Generator (250 Lit/hr) – Proposed	9 m			
	5	D. G. Set (250 KVA) X 2 Nos. – Proposed	8 m	Diesel (100 Lit./hr)	Adequate height	

Process gaseous emission details will be as below:

Stack attached to	Height of stack	APCM	Expected Concentration Pollutant
Reaction Vessel - 1 to 6	9 m	Scrubber	HCI < 20 mg/Nm ³
Reaction Vessel - 7 to11	9 m	Scrubber	HCI < 20 mg/Nm ³

Hazardous waste to be generated are as below:

SR	Detail of Hazardous Waste	Existing Quantity	Proposed total quantity	Management of Waste		
1	ETP Waste	1.2 MT/Year	2.4 MT/year	Collection, Storage and Disposal At TSDF		
2	Used Spent Oil	0.36 KL/Year	0.5 MT/Year	Collection, Storage reused for lubrication of machineries in unit.		
3	Discarded Containers/ Barrels/Liners	10 MT/Year	10 MT/Year	Collection, Storage, Decontamination, disposal by reuse or returned to supplier		
4	Distillation Residue	NIL	5 MT/year	Collection, Storage and Disposal At CHWIF		
5	Evaporation salt	NIL	18 MT/year	Collection, Storage and Disposal At TSDF		

Observations & Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the treatability of the effluent with VOCs, PP informed that they will install stripping column to recover low boiling components before evaporation. Committee emphasised on proper storage for various chemicals as there are more than 70 chemicals to be used for proposed project and asked to submit storage details on plan layout. During the meeting, the project proponent requested for categorizing the project as B2 and to exempt them from carrying out detailed EIA study which was not considered by the committee. 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 Sojitra.
- 2. Present land use pattern of the study area shall be given based on satellite imagery.
- 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. Storage facility for each chemicals shall be included.
- 4. List of products showing production capacity of each of the products instead of combined production capacity for group of the products.
- 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.
- 7. Chemical name of each proposed product to be manufactured. Details on end use of each product.
- 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. Submit action plan for complete Zero Liquid Discharge (ZLD) system by complete reuse/ recycle of treated waste water.
- 14. Proposal for Zero Liquid Discharge (ZLD) system including technical details of Stripper, MEE, RO system etc. Ensure that there will not be any discharge from your unit. Details of TDS/COD/Energy balance for stripper & multiple effect evaporator. Performance based details of fenton treatment for worst case scenario shall be included.
- 15. Economical and technical viability of the effluent treatment system including RO, Stripping column & Evaporation system. Action plan for 'Zero' discharge of effluent shall be included.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. Undertaking stating that a separate electric meter will be provided for the ETP.
- 20. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
- 21. 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.
- 22. 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 NH3, 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.
- 23. 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 google map / geographical area map.
- 24. 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.
- 25. 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.
- 26. Details on management of the hazardous wastes 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.
- 27. Explore the possibilities for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
- 28. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
- 29. Complete management plan of the by-products & spent acids which are recyclable / reusable within the premises and all the relevant details of by-products & spent acids which are not recyclable / reusable within the premises.
- 30. Name and address of end consumers to whom any hazardous waste / by-product will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said waste / by-product from the proposed project.
- 31. 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.

- 32. 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.
- 33. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
- 34. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. 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.
- 35. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
- 36. 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.
- 37. MSDS of all the products and raw materials.
- 38. 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.
- 39. 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?
- 40. 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.
- 41. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
- 42. 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.
- 43. 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.
- 44. (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.
- 45. 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.
- 46. 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.
- 47. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
- 48. 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 26/04/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

15 Prakhar Estates Pvt. Ltd. Plot No.821, GIDC, Sachin, Dist-Surat Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Prakhar Estates Pvt. Ltd. (herein after Project Proponent PP) has submitted application vide their proposal no. SIA/GJ/IND2/2622/2015 dated 06/10/2015.
- The project proponent was called for brief presentation and discussion in the meeting of SEAC 22/12/2015.
- During the meeting, while discussing about the treatability of the concentrated effluent, PP replied that it
 will be evaporated through Spray dryer after primary treatment. Committee noted that the content
 concentrated stream effluent comprises of high COD having refractive COD which shall be disposed
 through thermal decomposition at high temperature. Spray drying includes temperature profile of 250
 deg. C to 400 deg. C and under prevailing temperature profile the thermal decomposition does not take

place instead transformation of the phase occurs resulting evaporation of vapour of high COD effluent into the ambient air polluting ambient air quality. Committee also discussed about the handling of spent acid and deliberated that there is no infrastructure available to handle spent sulphuric acid generated from such products. After deliberation, committee asked PP to come with the proposal with sound environment management plan. Considering the above facts, it was unanimously decided to consider the project for TOR/Scoping only after submission of the following: Revised proposal with Revised Form-1 & relevant details.

• The project proponent has submitted revised proposal (Revised Form-1 & PFR) vide their letter dated 14/03/2016.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic organic Chemicals (Dyes Intermediates) as tabulated below:

Sr.No.	Name of Product		Quantity (MT/Month)
1	4 Chloro 2 Amino Phenol 6 Sulphonic Acid (4 CAPSA)		5
2	6 Chloro 2 Amino Phenol 4 Sulphonic Acid (6 CAPSA)		
3	Ortho Amino Phenol Para Sulphonic Acid (OAPSA)		
4	6 Nitro 2 Amino Phenol 4 Sulphonic Acid (6 NAPSA)		10
5	Aniline 2,5 Di Sulphonic Acid		25
6	Aniline 2,4 Di Sulphonic Acid		
7	Copper Formazone BASE		20
8	Blue HEGN STAGE I		
	[2-(2-Amino-Ethylamino)-5-Nitro-Benzensulfonc Acid]		
9	Blue HEGN STAGE II		
	[Diarylamino-3,6-dichloro-1,4-benzoquionone]		
10	Mecitylene Acid (M ACID)		
11	Blue 49 Base		
12	Blue HEGN STAGE III		4
	[3, 10-di-(2'-Aminoethylamino)-6,13 di chloro triphendioxazine- 4,11-		
	disulphonic acid]		
13	4 -4 Diamino Diphenyline amine 2 Sulfonic Acid (F C Acid)		40
14	4 Nitro 4 Amino Diphenyline amine 2 Sulfonic Acid (4 NADPSA)		
15	6 Acetyl Ortho Amino Phenol Para Sulphonic Acid (6-Acetyl OAPSA)		40
		Total	144

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 4816 sq. m & unit has proposed 1415 sq mtr area for the green belt development/Tree

plantation. Expected project cost is Rs.12 Crores. Total water consumption for proposed project will be 143 KL/day, which will be sourced from GIDC water supply. Industrial waste water generation will be 52 KL/day, which will be treated in ETP and spray dried completely. Domestic waste water (2 KL/day) will be disposed off into soak pit system. Industrial effluent will be completely spray dried after primary treatment. Generated

spent sulphuric acid will be completely reused for other products within premises.

Flue gas emission details is as below:

Sr. No.	Stack attached to	Stack ht (m)	Name of fuel and quantity	APC measures
1	Boiler 5 TPH	21	Coal- 7 MT/Day	Bag Filter followed by wet scrubber
2	Thermic Fluid Heater 2.5 Lacs kcal/hr	11	Coal / Wood- 0.7 MT/Day	Cyclone Separator
3	Hot Air Generator-I for Spray Dryer 75 Lac KCal (Capacity)	30	Coal/Wood- 21 MT/Day	Scrubbing System
4	Hot Air Generator-II for Spin flash Dryer 2 Lac KCal (Capacity)	11	Coal/Wood- 0.56 MT/Day	Bag Filter
5	D.G.Set 500 KVA	9	Diesel 100 Lit/Hr	

Process gas emission details is as below:

Sr. No.	Stack attached to	Stack ht (m)	APC measures	Pollutants
1	Sulfonation Reactor 5 nos.	11	Two stage scrubber system	SO ₂
2	Nitration reactor 2 no.	11	Two stage scrubber system	NO ₂
3	Spray Dryer	30	Scrubbing System	SPM
4	Spin Flash Dryer	11	Bag filter	SPM

Hazardous waste generation and management is as below:

Sr. No.	Type of Waste With Category No.	Total Quantity of Waste	Disposal
1	Discarded bags & Discarded Containers Category No.: 33.3	1.5 MT/Month	Used for packing of ETP waste/ return back to raw material supplier/ to authorized recyclers.
2	Used Oil Category No. 5.1	200 Lit/Month	To Authorised re-processors.
3	ETP waste/ Gypsum Sludge Category No.: 34.3	100 MT/ Month	Reuse for lubrication purpose of plant and machineries or sale to registered recycler.
4	Process Waste /Iron Sludge Category No.: 26.1	200 MT/Month	TSDF site or Cement manufacturing industries.
5	Spent Acid Class D2, Schedule-II	420 MT/Month	100% Captive Consumption, Reuse by self in an Isolation Process instead of HCL
6	Fly Ash	0.9 MT/Day	Sold out to actual users.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. Committee noted that PP has submitted revised proposal with decreasing the total production from 270 MT/Month to 144 MT/Month. While

discussing about the spent acid management, PP informed that they have worked out for complete reuse of spent sulphuric acid within premises for manufacturing of other products. They will not send spent acid outside the premises in any case. Further PP assured that they will submit the action plan for spent acid management with product wise generation and use of spent acid in respective products with quantitative & qualitative analysis. Upon asking about the treatability of the effluent with VOCs, PP informed that they will install stripping column to recover low boiling components before evaporation. During the meeting, Issues related to waste water management, safety aspect of hazardous chemicals, health effects of chemicals etc. have been discussed. Upon asking about possibility to adopt Zero Liquid Discharge (ZLD) concept for the proposed project, PP informed that they will go for complete ZLD and they will adopt state of the art technology to achieve ZLD. After detailed discussion, the following Terms of Reference (ToR) were prescribed for the EIA study to be done covering 10 km radial distance from the boundary of the project site.

- 1. Copy of plot holding certificate obtained from GIDC Sachin.
- 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. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
- 8. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
- 9. 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.
- 10. Qualitative and quantitative analysis of waste water to be generated from the manufacturing process of each product to be manufactured along with mass balance.
- 11. Segregation of waste streams and details on specific treatment and disposal of each stream.
- 12. Action plan for 'Zero' discharge of effluent shall be included.
- 13. Spent acid management with complete mass balance (Qualitative & Quantitative analysis). Feasibility report for reuse of spent acid in respective products. Undertaking regarding complete reuse within premises and will not send spent acid outside the premises in any case.
- 14. 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.
- 15. Technical details of proposed 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 spray drying of industrial effluent containing solvents & other chemicals. Techno-economical viability of the spray drying system.
- 16. Technical details of RO/NF system. (If any).
- 17. Undertaking stating that a separate electric meter will be provided for the ETP, RO & Incinerator/Spray Dryer.
- 18. Economical and technical viability of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
- 19. Proposal to provide and maintain separate electric meter, operational logbook for effluent treatment systems, online meters for monitoring of flow, pH, TOC/COD, etc.
- 20. Application wise break-up of effluent quantity to be recycled / reused in various applications like sprinkling for dust control and green belt development etc. In case of land application, details on availability of sufficient open land for utilizing effluent for plantation / gardening. How it will be ensured that treated effluent won't flow outside the premises linked with storm water during high rainy days.
- 21. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
- 22. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
- 23. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 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.
- 24. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
- 25. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modeling should be superimposed on satellite Image / geographical area map.
- 26. Base line status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
- 27. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air

pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.

- 28. Action plan for odour control to be submitted.
- 29. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
- 30. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
- 31. Complete management plan for By-products 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 from the proposed project.
- 32. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
- 33. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
- 34. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
- 35. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
- 36. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
- 37. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
- 38. MSDS of all the products and raw materials.
- 39. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the

- control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
- 40. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
- 41. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
- 42. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
- 43. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
- 44. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
- 45. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report. (b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
- 46. 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.
- 47. 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.
- 48. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
- 49. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
- 50. 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 26/04/2019.

 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.

16	Matrix Pharma Chem	Plot No. 90/1&91/1, GIDC - Odhav,	Screening & Scoping
		Dist.: Ahmedabad	

Project / Activity No.: 5(f)

• M/s: Matrix Pharma Chem (herein after Project Proponent – PP) submitted Application vide their online proposal no. SIA/GJ/IND2/10748/2016 dated 16/03/2016.

Project Status: Expansion Project / Activity Details:

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

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

11	Acid Violet 43	3
	TOTAL	64 MT/M

During the meeting, it was presented that the project site is located within the GIDC estate of Odhav, which falls within the Ahmedabad city limit. On asking, project proponent could not reply about the exact distance of proposed site from the Critically Polluted area of Vatva-Narol. Committee noted that some part of the GIDC-Odhav is located within the 5 km radius from the boundary of the Vatva GIDC. Considering the applicability of the General Condition, the project proponent was asked to submit the exact aerial distance of the proposed project site from the nearest boundary of the Vatva-Narol CEPI area along with the satellite image reflecting the same. Committee also observed that the existing unit was not in compliance as they have been issued 3 times closure notice from GPCB for violation under the Water act. After detailed discussion, It was decided to consider the project only after the satisfactory submission of the following:

- 1. The exact aerial distance of the proposed project site from the nearest boundary of the Vatva-Narol CEPI area along with the satellite image reflecting the same.
- 2. Aerial distance of nearest residential area from the boundary of the project site along with satellite image.
- 3. Details of CETP- OEPL (1) Total capacity of the CETP (2) Total booked capacity and actual load received at present (Qualitative and Quantitative) (3) CETP performance including Last 1 year analysis reports of GPCB for Inlet and outlet of CETP (4) Recommendations and suggestions of the last two Environment Audit reports of CETP- OEPL-Odhav and its compliance report. (5) Latest copy of membership certificate from CETP authority for additional effluent load.
- 4. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.

17	M/S. Europa Foams Pvt.	Survey No. 168/2, Plot No. 11, Kuwadva-	Screening & Scoping
	Ltd.	Wankaner Road, Village: Sanosara,	
		Taluka& District: Rajkot	

Project / Activity No.: 5(f)

 M/s: Europa Foams Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their online proposal no. SIA/GJ/IND2/10825/2016 dated 23/03/2016.

Project status: New

Project / Activity Details:

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

Sr. No.	Products Name	Production Capacity (MT/Month)	
1.	Polyurethane Foam (PU) Foam	200	

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

The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989. During presentation, PP informed that water requirement is 4.3 KL/day. Fuel requirement is 15 ltrs/hr (<25 MT/day) and Chemicals to be used are not covered in MAH category. Hence, the proposed project falls under Category B of project activity 5(f) as per the EIA Notification 2006.

Total plot area is 7119.34 sq. m. Unit has proposed 2212 sq. m area for the green belt development/ Tree plantation. Expected project cost is Rs. 4.9 Crores. Aerial distance of the nearest residential area of Village Sanosara is @ 2.4 KM. It is reported that no National park/sanctuary or ecologically sensitive area is located within 10 km distance. Total water consumption for proposed project will be 4.3 KL/day (3.5 KL/Day for Domestic & Gardening and 0.8 KL/Day for industrial) which will be sourced from Bore Well. Industrial waste water generation will be NIL. Domestic waste water generation will be 0.4 KL/Day which shall be disposed through soak pit system. Unit is proposed to install one D.G.Set of 125 KVA and Diesel (15 Lit/hour) will be used as fuel for D.G.Set. The Hazardous waste to be generated from the manufacturing activity will be used oil/spent oil and reused for lubrication of machineries in unit.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, details of product & raw materials, manufacturing process with process flow diagram, Health and safety measures proposed etc. On asking about storage and handling details of TDI, PP informed that monthly consumption of TDI is 52 MT and they will store less quantity of TDI then the threshold limit for MAH unit. Further PP assured that they will submit undertaking in this regard. However committee asked to provide strict engineering controls and personal protective equipments for the workers during handling of TDI. Looking to the small scale of the project, low pollution potential and the details presented during the meeting, after detailed discussion, the project was categorized as B2. Following additional information was sought from the project proponent for appraisal of the project:

- 1. Land Possession Documents of the proposed site. Copy of NA Permission from the concern authority.
- 2. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area N(2) Water Body: Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary/Eco sensitive zone (8) Aanganwadi/School/College/Institute etc. and likely impact on them due to the proposed project along with the mitigation measures proposed to minimize the likely impact. Give satellite image of 5 KM radius.
- 3. Legal Undertaking stating that unit is complying the three conditions [i.e. water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014. Give tabular format for comparison of actual storage of hazardous chemicals and threshold limit prescribed in MSIHC Rules, 1989.
- 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. Demarcation of proposed project activities in lay

- out plan. Exact details about infrastructural facilities, plant machineries etc. required for the proposed project.
- 5. Proposed monthly production and monthly consumption of each raw material. Source of raw materials and its mode of transportation.
- 6. Manufacturing process along with chemical reactions, mass balance for each product. Give exact quantity of raw materials required in MT/Day.
- 7. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Copy of permission letter obtained from the CGWA or concern authority for drawl of raw water.
- 8. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of each waste stream to be generated.
- 9. Plans for management and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
- 10. Specific details of (i) Details of the utilities required (ii) Type and quantity of fuel to be used for each utility (iii) Flue gas emission rate from each utility (iv) Air Pollution Control Measures proposed to each of the utility along with its adequacy (v) List the sources of fugitive emission along with its quantification and proposed measures to control it.
- 11. Specific details of fugitive emission from the unit along with its quantification and proposed measures to control it along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR.
- 12. Details of measures proposed for noise pollution abatement & its monitoring.
- 13. 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?
- 14. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
- 15. 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.
- 16. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
- 17. 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.
- 18. MSDS of all the products and raw materials to be used.
- 19. 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.

- 20. 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?
- 21. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
- 22. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
- 23. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided to the workers. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical check up of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
- 24. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
- 25. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.
- 26. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
- 27. A tabular chart with index for point-wise compliance of above details.

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

The following proponents did not remain present during the meeting:

- 1. "Avadh Infracon" at Block No. 211, T.P.S.No.13, F.P.No.131, Near Shyambaba Temple, VIP road, Vill: Bharthana, Vesu, Dist: Surat.
- 2. M/S. M.D. Inducto Cast Ltd., Plot no:144, Paiki 1&2, Vill: Nesada, Ta: Sihor, Dist: Bhavnagar.
- 3. Mohini Organics Pvt Ltd., Plot No. C-298, Sayakha Industrial Estate, Ta-Vagra, Dist. Bharuch It was decided to call them in one of the upcoming meetings of SEAC.

The ad	ditional	information	received	from the	project	proponer	nts, which	was	sought	during	various	SEAC
meeting	gs, were	considered	d by the	committe	e during	g the me	eting and	as i	t was f	ound sa	atisfactor	y, the

committee decided to recommend the following projects for grant of environmental clearance.

Sr. No.	Name and address of the project.
1.	Swaminarayan Green City, F.P.No.169,170 & 171, O.P.No.172, Block No. 396, T.P.S.No.48, Village: Kholvad, Dist: Surat.
2.	Indraprasth Business Park, S.P.No.25/1, F.P.No.25, S.No.193, D.T.P.S. No. 84/B, Village: Makarba, Ahmedabad.
3.	The Bungalows, Plot No 181/1, S.No:998, Opp. Zydus Cadila Building, Satellite Road, S.G.Highway, Ahmedabad.
4.	Soham Residency, F.P. No. 25/Paikkee, TPS No. 1, Dist: Surat.
5.	Satkar Premium, Survey No. 209 + 210, F.P.No. 28, T.P. S. No. 97, Village: Naroda, Taluka: Asarwa, District: Ahmedabad.
6.	Cosmos Plus, S.No.270/P 1, 270/P 2, Village: Madvi, Ta. & Dist: Rajkot.
7.	Dream Ikon, T.P.No.2 (Vesu – Bharthana), R. S. No. 415/3, 413, 412/1, 412/2, O.P.No.129, 130/1, 130/2, F.P.No.118/1+118/2+119, at Vesu, Surat.
8.	A commercial project by Mr. Alpeshbhai A Patel, Block No.671,631, O.P.No. 45, 24, F.P. No.45/2,24/1, T.P.S.No.12 (Puna), Puna, Surat.
9.	Building construction project by Mr. Vijaybhai M. Bharwad, F.P No-117, O.P.No 117, New S.R.No 40-1+2, Old S.R.No33, Sub Plot No01, T.P.S. No 75 (Magdalla-Vesu-Gavier), Moje- Magdalla, Dist .Surat.
10.	Shrungal Homes, Block No. 141, F.P.No.42, O.P.No.42, T.P.S.No.58 (Bamroli), Choryasi, Surat.
11.	Shayona Shikhar, S.No.232, F.P.No.60, O.P.No.60, T.P.S.No. 33, Village: Gota, Ta: Dascroi, Dist: Ahmedabad.
12.	Surya Emerald, O.P.No.91/1, F.P.No.91/1, S.No. 691, 692/1+2/P, T.P.S.No.51, Makarba, Vejalpur, Ahmedabad.
13.	M/s. Maharshi Pharma Chem Pvt. Ltd. at Block no.203,Vill.: Alindra, Vaso-Alindra Road, Ta.: Matar, Dist.: Kheda,
14.	M/s. Lanxess India Pvt. Ltd., Plot No:748/2/A,748/3, 748/4/A & 748/4/B, G.I.D.C. Jhagadia, Bharuch.
15.	Mangalam Intermediates, Plot no: 8201/1, GIDC Estate, Sachin,
16.	Mahavir Eco Projects Pvt. Ltd., Plot No:2430, GIDC Estate, Sachin, Choryasi, Surat.
17.	Himalaya Chemicals, Plot no.25, Shed No.C-1/B-4, GIDC Estate, Pandesara, Choryasi, Dist. Surat
18.	Camlin Fine Sciences Limited, Plot noZ/96/D, Part-II, Dahej SEZ, Ta.: Vagra, Dist.: Bharuch.
19.	Pharma Inter Chemie unit II, Plot no:139 & 140, GIDC Estate, Nandesari, Vadodara
20.	KLJ organic limited unit ii, Plot no.760 GIDC industrial, Estate, jhagadia, Bharuch.
21.	Reliance Industries Ltd. (RIL-HMD), Hazira Manufacturing Division, GIDC Mora Plot, Choryasi Dist.: Surat.
22.	Reliance Industries Ltd. (RIL-DMD), Dahej Manufacturing Division, GIDC PlotNo.1, Dahej Vagra Dist.: Bharuch.

The additional information received from the project proponents, which was sought during various SEAC meetings, were considered by the committee during the meeting and as it was found not satisfactory, the committee decided to consider these proposal after submission of the additional details as below:

1. M/s. Amophil Chemicals Pvt. Ltd., Plot no. 124/33, A-B, GIDC-Nandesari, Dist.: Vadodara.

The case was referred back by the SEIAA vide their letter no. SEIAA/GUJ/EC/5(f)/287/2016 dated 18/04/2016 for reconsideration to the SEAC based on the discussion in the SEIAA meetings held on 02/04/2016 with the following point: (1) To verify the accreditation of consultant with respect to Notification of MoEF&CC dated 03/03/2016 and status of interim stay order in SCA-10311/2012 filed in Hon. High Court of Gujarat. (2) To verify the compliance of monitoring of Ambient Air Quality with respect to project specific parameters i.e. VOC. & (3) To verify the techno-economical feasibility of Hydrodynamic Cavitation technology.

Project proponent vide their letter dated 09/04/2016, submitted the reply as below: (1) The consultant has acquired the stay order from Honourable Gujarat High Court against the Notification of MoEF&CC dated 03/03/2016. (2) VOC measurement was carried out on site and inside the GIDC estate and also on site. The VOC was not detected on site as there is no activity at site whereas it varied from 0.2 to 0.4 ppm in Nandesari estate. Elsewhere at other monitoring locations in the study circle, VOC was below detectable levels. (3) A short note prepared by Chairman, Nandesari Industries Association on the techno-economical feasibility of the Hydrodynamic Cavitation. A letter from NIA vide dated 05/04/2016, addressed to Chairman, SEIAA, it is mentioned that NIA has asked NEERI to authenticate Hydrodynamic Cavitation technology as a method of treatment for waste water and it was mentioned that it is already at advance stage of submitting the final report. It was further mentioned that the final report of NEERI was to be availed to them at the end of April 2016.

The said submission by the project proponent was considered by the committee during the meeting. Committee found that the reply regarding treatment method "Hydro dynamic cavitation" was not satisfactory. Committee was of view that proposals with waste water treatment method as "Hydro dynamic cavitation" shall be considered only after submission of the final report regarding authentication of the treatment technology. After detailed deliberations, the Committee decided to consider this proposal after submission of the following:

- Final report of NEERI validating Hydrodynamic Cavitation technology.
- 2. M/s: R. K. Industries, Plot no.125/4, GIDC Nandesari, Dist.: Vadodara

The additional information received from the project proponents M/s: R. K. Industries, Plot no.125/4, GIDC Nandesari, Dist.: Vadodara which was sought during SEAC meeting dated 03/02/2016. The said submission by the project proponent was considered by the committee during the meeting. Committee found that the reply regarding treatment method "Hydro dynamic cavitation" was not satisfactory. Committee was of view that proposals with waste water treatment method as "Hydro dynamic cavitation" shall be considered only after submission of the final report regarding authentication of the treatment technology. After detailed deliberations, the Committee decided to consider this proposal after satisfactory submission of the following:

- Final report of NEERI validating Hydrodynamic Cavitation technology.
- 3. Pharma Inter Chemie unit II, Plot no:139 & 140, GIDC Estate, Nandesari, Vadodara

The additional information received from the project proponents M/s: Pharma Inter Chemie unit II, Plot no: 139 & 140, GIDC Estate, Nandesari, Vadodara which was sought during SEAC meeting dated 03/02/2016. Committee observed that the treated effluent will be sent to the CETP, Nandesari for further treatment. Committee observed that treatment of waste water at CETP, Nandesari is carried out with Hydrodynamic

Cavitation technology.

A letter from NIA vide dated 05/04/2016, addressed to Chairman, SEIAA, in the case of M/s; Amophil Chemicals Pvt. Ltd., Plot no. 124/33, A-B, GIDC-Nandesari, Dist.: Vadodara it is mentioned that NIA has asked NEERI to authenticate Hydrodynamic Cavitation technology as a method of treatment for waste water and it was mentioned that it is already at advance stage of submitting the final report. It was further mentioned that the final report of NEERI was to be availed to them at the end of April 2016. Committee was of view that proposals with waste water treatment method as "Hydro dynamic cavitation" shall be considered only after submission of the final report regarding authentication of the treatment technology. After detailed deliberations, the Committee decided to consider this proposal after submission of the following:

Final report of NEERI validating Hydrodynamic Cavitation technology.

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 Rajesh I. Shah, Member, SEAC	
7.	Dr. Mayuri Pandya, Member, SEAC	