Minutes of the 587th meeting of the State Level Expert Appraisal Committee held on 27th February 2023 through Video Conference (VC) on National Informatics Centre (NIC).

Sr.no	Proposal No	Name of project	Remarks

In the wake of recent crisis of COVID-19, the agenda of the present meeting was mailed to expert Committee in advance and a Video conference meeting on NIC was organized in this regard on 27-02-2023 at 13:30 hrs.

Following members joined the meeting:

1.	Shri Akshay Kumar Saxena, Chairman, SEAC
2.	Dr. S. C. Pant, Vice Chairman, SEAC
3.	Shri D. C. Chaudhari, Member, SEAC
4.	Shri J. K. Vyas, Member, SEAC
5.	Shri Anand Zinzala, Member, SEAC
6.	Shri B. M. Tailor, Member, SEAC
7.	Shri D.M.Thaker, Secretary,SEAC

The Committee considered the applications made by project proponents, additional details submitted as required by the SEAC/SEIAA and details furnished in the Form-1, PFR, EMP reports etc.

The agenda of Category 8 (a) were taken up during the meeting. The applicants made presentation on the activities to be carried out along with other details furnished in the Form-1, Form-1A & Conceptual Plan

1	**SIA/GJ/INFRA2/405383/2022**	**B.M. Avenue R.S.NO. – 201 (OLD R.S.NO. – 279), F.P.NO. – 37, T.P.S.NO. – 54, MOJE - BHESTAN, TA – MAJURA, DIST. – SURAT – 395023.**	**EC -New**

- This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/INFRA2/405383/2022 dated: 20/01/2023 .
- This is a proposed Residential cum commercial building construction project having net plot area of 11,340.00m2, FSI area of 30,615.45 m2 and the proposed built-up area of the project is 45,428.29m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.
- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Details of the Application:

1.1. Type of application:	EC-New/~~Expansion/Amendment~~
1.2. Proposal no.	SIA/GJ/INFRA2/405383/2022
1.3. Category of Project :	8(a)
1.4. Date of application accepted by SEAC	20/01/2023
1.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC, Firefighting opinion etc.
1.6. TOR No. & Date :	Not applicable as project is categorized as B2
1.7. Technical expert / Environmental Consultant Name :	Envirocare Technocrats Pvt. Ltd.
1.8. SEAC Meeting No. and Date:	587th SEAC meeting dated: 27/02/2023

2. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/405383/2022

<table>
<tr><td>2.</td><td>Name of the project</td><td>“B.M. AVENUE”</td></tr>
<tr><td>3.</td><td>Address of the Site</td><td>R.S.NO. – 201 (OLD R.S.NO. – 279), F.P.NO. – 37, T.P.S.NO. – 54, MOJE - BHESTAN, TA – MAJURA, DIST. – SURAT – 395023.</td></tr>
<tr><td>4.</td><td>Name of Developer</td><td>M/s. RATNADEEP</td></tr>
<tr><td>5.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 59.13 Crore (Including CER Cost)</td></tr>
<tr><td>6.</td><td>Whether construction work has been initiated at site? If yes, details thereof
And if No, Date up to which construction has not started.</td><td>No</td></tr>
<tr><td>7.</td><td>Details of Undertaking stating current status of construction at site.</td><td>No Construction activity started at site. Undertaking Submitted in this regard.</td></tr>
<tr><td>8.</td><td>Whether NA permissions of all survey Nos have been obtained, details there of</td><td>NA permission was obtained for Survey No. – 201 on dated: 18/10/2022 for 11,340.00 m^2land area.</td></tr>
<tr><td>9.</td><td>Site coordinates</td><td>(with all coordinates of the polygon)
<table>
<tr><td>A</td><td>21°07'59.06"N</td><td>72°51'53.14"E</td></tr>
<tr><td>B</td><td>21°08'3.01"N</td><td>72°51'52.03"E</td></tr>
<tr><td>C</td><td>21°08'3.70"N</td><td>72°51'55.01"E</td></tr>
<tr><td>D</td><td>21°08'3.35"N</td><td>72°51'55.02"E</td></tr>
<tr><td>E</td><td>21°08'3.16"N</td><td>72°51'55.18"E</td></tr>
<tr><td>F</td><td>21°08'0.00"N</td><td>72°51'56.07"E</td></tr>
<tr><td>G</td><td>21°07'59.66"N</td><td>72°51'55.86"E</td></tr>
</table></td></tr>
<tr><td>10.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 11,340.00
• FSI area (m^2):30,615.45 (2.69)*
• Total BUA (m^2):45,428.29
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area(m^2)</td><td>30,618.00</td><td>30,615.45</td></tr>
<tr><td>Ground Coverage(m^2)</td><td>---</td><td>5373.80</td></tr>
</table></td></tr>
</table>

		Common Plot Area(m^2)	1,134.00	1,303.82
		Max. building height(m)	74.82	24.96

11.	Building Details	No. of Buildings:	06 Nos.
		No. of Blocks:	13 Nos.
		Scope of buildings/blocks:	01 Basement Ground floor (Hollow plinth) + 7th floors in Residential buildings – A1, A2 & A3, B1, B2 & B3, C1 & C2, D1 & D2 & E1 & E2,
			01 Basement + G.F + 4th Floor in Commercial building – F
		No. & size of Residential Units:	336 Nos. Flat
		No. & type of Commercial Units:	129 Shops & 6 Offices
		Details of amenities if any:	---
12.	No. of expected residents / users/	Residents: 1344 Nos. Users: 382 Nos. Visitors: 2200 Nos.	
13.	Water & waste water details during construction phase and operation phase	**CONSTRUCTION PHASE**	
		Water requirement (KL/day):	14.0
		Source of water/Supply from -	Tanker water
		Waste water generation quantity (KL/day):	1.80
		Mode of disposal:	Into Soak pit
		Details of reuse of water, if any:	**2.40 KLD** W/W generated from washing of equipment will be reused for curing
		OPERATION PHASE	
		Total water Consumption (KL/day):	**324.25** KLD
		Fresh water requirement (KL/day):	**228.87**KLD
		Recycle of treated w/w, KL	95.38 KLD
		A. Gardening area, m2	1303.82 m^2
		B. Flushing	90.13 KLD
		C. Sprinklers (Nos in premises, with pipeline details)	**24**Nos. gardening water sprinklers connected with 32

			mm size pipeline will be provided in land scaping area while Drip irrigation type 32 mm size PVC/PE pipeline will be laid on periphery of gardening area which will be connected with treated sewage line.
		D. Storage tank details for storage of treated domestic waste water in premises	Treated Water Storage Tank- 01 Nos. Capacity - 120.00 m^3
		Source of water:	From S.M.C
		Total Waste water generation quantity (KL/day):	255.20 KLD
		Treated Waste water to be reused	Toilet Flushing (KL/day): **90.13KLD** (Treatment loss: 30 KLD)
		Quantity and type (treated/untreated) of water to be discharged:	**135.07 KLD** treated water will be discharged through the underground drainage line of SMC.
		In case of STP provision, capacity of STP:	Yes, **300.00 KLD**
		STP Technology:	Anaerobic followed by high oxidation treatment based STP.
		Provision of dual plumbing system (Yes/No):	Yes
14.	Status of water supply and drainage line and its permission/ acknowledgement details	Applied.	

15.	Solid waste Management	**Construction Phase**:			
			Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
		Top Soil	652.00	652.00	Reuse for developing garden area
		Other excavated earth	**31144.26 MT**	---	Will be reuse at our other project site
		Construction debris	1817.13	1216.75	Reused as a filler up to plinth level or reused in outer road development& balance quantity will be disposed to our other project site. We will be obtained permission from SMC under C&D act.
		Steel scrap	18	---	Sold to local scrap vendors
		Discarded packing materials	11	---	Sold to local vendors
		Others	---	---	---
		Operation Phase:			
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry waste	621.36* kg/day	Separate bin	Convert in fertilizer by putting organic waste converter machine with in premises Max quantity of Fertilizer will be reuse within the premises and balanced quantity will be sold to SMC.
		Wet waste	414.24* kg/day	Separate bin	Disposed to bin of door to door collection system of SMC.
		STP Sludge	81.00 kg/day	---	Maximum quantity will be reuse as a manure in garden within premises and/or balance quantity will be sell to SMC
		Details of segregation if to be done:		Separate bins will be provided to collect dry and wet waste.	
		Capacity and no. of community bins to be placed within premises:		0.5 m^3 in building	

		Landfill site where waste will be ultimately disposed by local authority:	

16. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A1, A2 & A3	G (H.P.) + 7	868.10	03	2.00	03	03	11.64
B1, B2 & B3	G (H.P.) + 7	868.10	03	2.00	03	03	11.64
C1 & C2	G (H.P.) + 7	577.92	02	2.00	02	02	10.17
D1 & D2	G (H.P.) + 7	577.92	02	2.00	02	02	10.17
E1 & E2	G (H.P.) + 7	577.92	02	2.00	02	02	10.17
F	G + 4 (Commercial)	1268.09	02	2.00	03	02	20.17

17.	Parking Details	As below:	Sq. mtrs.	CPS
-	Total parking area requirement for the project as per GDCR:		9139.18	-
	Parking area requirement for residential units as per GDCR:		4857.95	-
	Parking area requirement for commercial units as per GDCR:		3162.87	-
	Parking area requirement as per GDCR for (specify in case of any other):		1118.36 (for visitor)	-
	Total number of CPS requirement for the project as per NBC		---	275
	Total parking area provided (m^2) & No. of CPS:		9400.88	317
	Parking area provided in basement (m^2) & No. of CPS:		4148.83	124
	Parking area provided in hollow plinth (m^2) & No. of CPS:		3462.39	124
	Parking area provided as open surface (m^2) & No. of CPS:		545.61	24
	Number of Visitor parking provided in the project (No. of CPS):		1244.05	45

18.	Traffic Management	Width of adjacent public roads:	18.00 m wide road in S direction. 24.00 m wide road in E direction.
		Number of Entry & Exit provided on approach road/s:	03 Entry & 03 Exit
		Number of Entry and Exit ramp tothe basement:	01 Entry & 01 Exit
		Width of Entry & Exit provided on approach road/s:	6.00 m

		Width of the Roads:	Permissible	Proposed
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6.00 m	6.00 m
		Width of all internal roads:	6.00 m	10.00 m
19.	Details of Green Building measures proposed.	Use of fly ash based material, provision of flush tank instead of direct flushing in toilet, provision of foam type aerated cock for water usage, use of LED light in common building areas, solar lights for landscape areas, maximum use of natural lighting, reflective / white tiles on terrace floor, Solar Tree, E-Vehicle charging point at key location etc.		
20.	Energy Requirement, Source and Conservation	Power supply:		
		Maximum demand: Connected load: Source:	1728.90 KW ≈ 1750 KW D.G.V.C.L	
		Energy saving measures:	Use of LED light in common areas, solar lights for landscape areas, maximum use of natural lighting, reflective / white tiles on terrace floor, solar tree, E-Vehicle charging point at key location etc.	
		Power Generation:	Required	Provided
		Solar power generation (Capacity in KW):	---	144 KW
		No. of solar panels	---	288 Nos.
		Capacity of each Solar cell	500 W	0.5 KW Capacity
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting	564 kWh
			Total Solar Power Utilization for Water Pump	100 kWh
			Total Solar Power Utilization for Electric Vehicles Charging Station	200 kWh
			Other usage	---
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	---	01 x 240 KVA Low Sulphur High speed Diesel (HSD) & quantity 55 L/h in each.

21.	Electric vehicle charging provision	Total no. of EV Charging points provided	**236**
		Parking area designated for EV Charging parking	**Electric car charging stations will be provided for 236 of the required CPS**
		Total proposed EV charging capacity	236
		Total power requirement to charge Electric Vehicle in kWh/day	389.40 kWh
		Availability of power	*Out of 400 kWh/day of power requirement for Charging of Electric Vehicles, 200 kWh/day will be utilized from solar power generation and remaining 200 kWh/day will be utilized from DGVCL*
22.	Fire and Life Safety Measures	**During the construction phase**:	
		Fall Protection	Safety belt will be provided for each worker working at height. Safety net & adequate safety railing will also provide with having strong support.
		Foot Protection	Safety shoes will be provided to all workers.
		Head Protection	Safety helmet provided to all workers to protect from falling object related incident
		Noise Protection	Noise mask provide to respective workers Ear Plugs Provided to all worker to reduce Noise.
		Eye Protection	Safety goggles provided to respective workers
		Ladders and Stairs	Staircases and ladder for safe access with hand rails
		Scaffolds	Cup lock type scaffold provided and inspection done by competent scaffolder. After inspection tag system implemented for safe working
		Access to Scaffolds	Ladder provided up to platform for safe access as per norms
		Trenching and Excavation	Permit to work system for excavation work is implemented. Provided Hard barricading and step cutting /shoring for excavation work and also maintain slope 1:4. Necessary signages fixed at site in local language.
		Electrical Safety	Electrical shock proof hand gloves provided to electrician. IP 65 panel board used at site. 30 mA ELCB/RCCB provided in all panel board. Regularly inspection of earth pit & ELCB. FRP ladder for electrical work. Permit to work system implemented.
		Cranes	All lifting & tool tackles inspection (TPI) from govt. authorized competent person and regularly inspection of limit switches & maintained

		Occupational Noise Exposure	Half yearly noise level inspection & monitoring as noise level	
		Welding and Cutting	Follow hot work guidelines and provided welding and cutting related PPE. Permit to work system is implemented for hot work	
		Others	---	
		During the operation phase"	Fire safety measures	Fire extinguisher, hose reel, Yard Hydrant, wet riser, automatic sprinkler system in basement, manually operated electric fire alarm system, Automatic detection and alarm system.
			Capacity of Underground fire water tank	600 KL
			Capacity of Overhead fire water tank	120 KL
		Status of fire opinion obtained for the project, submit details	Wii be obtained. Undertaking submitted.	
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Distance of the nearest fire station is Bhestan Fire station (@1.72 km) and time required for the fire tender to reach at the project site will be approx. 5 – 10 min.	
23.	Rain Water Harvesting (RWH)	Level of the Ground water table:	10.50 m	
		RWH/Percolation well details:	Required	Provided
		No. of RWH tank(s)	03	03
		Dimensions of RWH tank(s) :	---	03 nos. of tanks with Size:4mx3mx 3m
		No. of percolations wells :	03	03 nos. of percolating well, depth will be kept 5m above ground level water table.
		Depth of percolations wells :	---	45 m x 250 mm dia
		Details on Pre-treatment facilities	---	A de-silting chamber will be provided to de-siltand remove floating material through bar screen
24.	Green area details	Details:	Required as per prevailing	Provided

			Laws/policy/rule	
		Tree covered area (m^2) :	---	389.00 m^2
		Area covered by shrubs and bushes (m^2):	---	---
		Lawn covered area (m^2):	---	914.82 m^2
		Total Green Area (m^2):	1134.00	1,303.82 m^2
		Green Area % of plot area:	10.00 %	11.50 %
		No. of trees and species to be planted:	---	180 tree of Asopalav, Almond Tree, Neem Tree, Gulmohor etc.
25.	Basic amenities to be provided to construction workers.	Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, welfare facilities as per the Gujarat Building & Other Construction Workers Rules		
26.	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**	
		Air	• Stack emissions from DG set to be optimized monitored • Exhaust from vehicles to be minimized by use of fuel-efficient vehicles and well maintained vehicles having PUC certificate. • Vehicle trips to be minimized to the extent possible	
		Noise Control	• Machinery used for construction will be of high standard of reputed make and will adhere to International standards. • Provision of PPE to working staff.	
		Water	• No untreated discharge to be made to surface water, groundwater or soil. • Take care in disposal of wastewater generated such that soil and groundwater resources are protected • Sprinkler and drip irrigation system will be used tominimize water requirement.	
		Solid and hazardous waste management	• Implement waste management plan that identifies and characterizes every waste arising associated with proposed activities and which identifies the procedures for collection, handling and disposal of each waste arising. • Collection and segregation of MSW and STP sludge • OWC will be provided for wet waste collection.	
		Environment monitoring	Ambient air monitoring	Once in three month (within premises) During each season (04 station outside premises)
			Ground water sample	Once in each season

<table>
<tr><td></td><td></td><td></td><td>Inlet & Outlet sample of STP</td><td>Once in month</td></tr>
<tr><td></td><td></td><td></td><td>Ambient Noise level (day & night)</td><td>Once in a six months (within & surrounding 01 km area)</td></tr>
<tr><td></td><td></td><td>Rain water</td><td colspan="2">• 03 pockets</td></tr>
<tr><td></td><td></td><td>Green belt</td><td colspan="2">• 180 Nos. trees will be planted. Local Species will be planted</td></tr>
<tr><td></td><td></td><td>Solar Energy</td><td colspan="2">• Provision of Solar Panel
• Energy usage for air -conditioning and other activities to be minimized
• Conduct annual energy audit for the buildings</td></tr>
<tr><td></td><td></td><td>Fire & Safety</td><td colspan="2">• To obtain Fire NOC, Getting insurance policy for entire infrastructure, Fire protection and safety measures to take care of fire and explosion, to be assessed and steps taken for their prevention.
• Provision of fire and safety equipments as per CGDCR-2017.</td></tr>
<tr><td></td><td></td><td>CER</td><td colspan="2">• To improve social as well as financial condition of the nearby villages, CER will be carried out in and around villages.</td></tr>
<tr><td></td><td></td><td>Amenities/ Occupational health center.</td><td colspan="2">• Adequate drinking water facilities, lateral & urinal facilities, rest shelters, children playing rooms, Lunch Space, First-Aid box, free medicines etc.
• Construction Worker’s health checkup, insurance under the BOCW Act 1996.</td></tr>
<tr><td>27.</td><td>Budgetery provision of Environment Management plan</td><td colspan="3">
<table>
<tr><th>Sr. No</th><th>Head</th><th>Basis for cost estimates</th><th>Total Capital cost (Rs. In lacs) (Construction and operation phase)</th><th>Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)</th><th>Implementation Plan For Capital Expenditure</th></tr>
<tr><td rowspan="2">1.</td><td rowspan="2">Air</td><td>Dust Mitigation Measures like frequently Water Sprinkling on road, covered sheet for bulk/loose material, provision of sheet at periphery of wall.</td><td>6.00</td><td>0.70</td><td rowspan="2">Implement during Construction and Operation phase</td></tr>
<tr><td>Stack and DG room, its capacity</td><td>1.00</td><td>0.05</td></tr>
<tr><td>2</td><td>Noise Control</td><td>Noise control measures like provision of PPEs, Lubrication in Construction Machinery, Provision of acoustic enclosures and vibration sheet at D.G set</td><td>1.00</td><td>0.01</td><td>Implement during Construction phase</td></tr>
</table>
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			3.	Water	300 KLD – Anaerobic followed by high oxidation treatment based STP, Area Require – 100 Sq. m.,	32.00	18.80	Implement before Operation phase (end of construction Phase)
			4.	Solid and hazardous waste management	414.24 Kg/Day – Automatic OWC Area require – 70.00 Sq.m.	5.00	0.30	Implement before Operation phase (end of construction Phase)
			5.	Environment monitoring	The recurring cost would be incurred on hiring of consult- ants and payment of various statutory fees to regulatory agencies.	0.00	3.00	Operation phase and construction Phase Carried out twice in year
			6.	Rain water	Collection system, treatment and recharge well - 03 nos. P. W.C.	2.25	0.50	Implement before Operation phase (end of construction Phase)
			7.	Green belt	180 nos. Trees and Lawn Area Development	2.00	0.75	Greenbelt at Periphery of project (Construction phase- Within one year) & Greenbelt at Except Periphery of project (operation phase- within one year)
			8.	Solar Energy	Roof Top Solar – 144 KW; Terrace Space require – 2160 Sq.m.	73.00	1.50	Implement during Operation phase (Within one year)
			9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from SMC and Fire and Safety Equipment and PPE's will be provided to workers during	106.00	5.00	Implement during Construction phase and before Operation phase

		Construction Phase.				
10.	CER	Detailed activities to be carried out under CER with	**---**	**7.00**	During Construction phase CER Activity will be carried out within five year	
	2023 - 2024	Tree plantation activity (Tree, Tree guard, man power, water & Fertilizer cost) on village and SMC/ SUDA road.	11.00	---		
	2024 – 2025	Provision of Sanitation facilities for poor peoples at Bus Stop or near Public Place or at village school	55.00	---		
	2025 - 2026	Provision of Solar street light (Solar pole, battery, panel, LED light complete) on village road & school	30.00	---		
	2026 – 2027	Provision of Library& Books, Projector, Sports equipment for primary schools	20.00	---		
11.	Amenities/ Occupational health center	Providing of amenities facility for worker	5.00	0.50	Implement during Construction phase	
		Total	**349.25**	**38.11**		

- Committee deliberated on the following:

✓ PP was asked to submit details about MITHI khadi distance from the site.
✓ PP was asked to submit Permission of disposal of waste water to STP.
✓ PP was asked to submit Undertaking that PP will not give possession to occupant unless permission obtained from SMC for STP disposal.
✓ PP was asked to check Solar power generation details and submit revised sola power generation details.
✓ PP replied vide email dated 28-02-2023 and submitted the following:
✓ PP submitted the undertaking regarding confirmation for no allotment of possession to unit holder incase of no drainage connection.
✓ PP also submitted the clarification on solar power generation and confirmed that we will provide 144 Nos. solar panel each having solar power generation capacity 1 kWh and total 864 kWh (Considering solar energy average availability is 6 hrs.).

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA

Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.
2. The project proponent shall construct 06 nos of buildings [Residential - 01 Basement Ground floor (Hollow plinth) + 7 and 01 Basement + G.F + 4^{th} Floor in Commercial building].
3. The height of the building shall not be higher than 24.96 mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 10 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 21 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 14.0 KLD and it shall be met through Tanker . No ground water shall be tapped during the construction phase.
9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with

the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 324.25 KLD, out of which fresh water requirement of 228.87 KLD shall be met through S.M.C and the remaining 95.38 KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.
15. Sewage generation during operation phase shall not exceed 255.20 KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of S.M.C .
17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 03 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff, pre-treatment must be done to remove suspended matter.

(iv) AIR:

21. A D. G. set (240 KVA) proposed as backup power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(v) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the other garbage shall be disposed off properly as per the provisions made by the S.M.C .

(vi) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like Fire extinguisher, hose reel, Yard Hydrant, wet riser, automatic sprinkler system in basement, manually operated electric fire alarm system, Automatic detection and alarm system, terrace water tanks of total 120 KL capacity, underground water tank of total 600 KL, etcshall be provided..
27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A1, A2 & A3	G (H.P.) + 7	868.10	03	2.00	06	03	11.64
B1, B2 & B3	G(H.P.)+ 7	868.10	03	2.00	06	03	11.64
C1 & C2	G(H.P.)+ 7	577.92	02	2.00	06	02	10.17
D1 & D2	G(H.P.)+ 7	577.92	02	2.00	04	02	10.17
E1 & E2	G(H.P.)+ 7	577.92	02	2.00	04	02	10.17
F	G+ 4 (Commercial)	1268.09	02	2.00	05	02	20.17

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.
29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.
31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.

32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vii) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 9400.88m^2 (317CPS) [4148.83m^2 in Basement + 3462.39m^2 in Hollow Plinth + 545.61m^2 in open area] shall be provided as proposed.

(viii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors &pumps, water efficient taps, solar lights in open & solar street light, 144 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(ix) GREEN BELT:

35. Green belt area of 1,303.82 m2 comprising of 389.00 m2 tree covered area with 180trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(x) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 349.25 Lakhs and Recurring cost of Rs 38.11 Lakhs in Construction Phase& Operation Phase.

(xi) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 123 Lakhs as committed before SEAC for activities like Tree plantation activity (Tree, Tree guard, man power, water & Fertilizer cost) on village and SMC/ SUDA road. Provision of Sanitation facilities for poor peoples at Bus Stop or near Public Place or at village school Provision of Solar street light (Solar pole, battery, panel, LED light complete) on village road & school Provision of Library& Books, Projector, Sports equipment for primary schools.
38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.
39. The said activities shall be completed within 3 years from the commencement of the project.
40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and

district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.

2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.
6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.
7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

2	**SIA/GJ/INFRA2/411219/2022**	**Proposed Redevelopment Project Sub Plot No. 6/A, F.P. No. 5 (5/11, 5/12, 5/23) 27/2 + 28, TPS No. 1 (Chandlodia), Village: Chandlodia, Ta: Sabarmati, Dist: Ahmedabad**	**EC-Amendment**

- This office has received an application for Amendment in Environment Clearance of the above project vide proposal no. SIA/GJ/INFRA2/411219/2022 dated: 17/01/2023.
- The project proponent has obtained Environmental Clearance obtained vide order SEIAA/GUJ/EC/8(a)/942/2022 Dated: 16/04/2022..
- This is a proposed Residential cum commercial building construction project having net plot area of

7570.00m2, FSI area of 20421.00m2 and the proposed built-up area of the project is 38184.37m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Proposed changes due to Amendment:

Details	As per previous EC (Existing)	Proposed changes	Total
PLOT AREA	7570 Smt		7570 Smt
BUILTUP AREA	38914.20 sqm	270.17 sqmincreased	39184.37 sqm
FSI AREA	20349.46 sqm	71.54 sqm increased	20421.00 sqm
NO OF UNITS	270		268
COMMERCIAL	22		22
RESIDENTIAL	248	2 Units Less	246
NO OF BLOCKS	5		5
NO OF BUILDINGS	4		4
WATER			
CONSTRUCTION WATER REQUIREMENT	9 Kld		9 Kld
CONSTRUCTION WASTE WATER	2 Kld		2 Kld
TOTAL WATER REQUIREMENTS OPERATIONAL	143.10 Kld		143.0 Kld
FRESH WATER REQUIREMENTS	91 Kld		91Kld
TOTAL SEWAGE	115.4 Kld		115.40 Kld
TREATED SEWAGE WATER	52.20 Kld		52.20 Kld
TREATED WATER DISCHARGED IN TO SEWER	63.2 Kld		63.20 Kld
STP CPACITY	115 Kld	15 Kld	130 Kld
PARKING DETAILS			
TOTAL CPS REQUIRED	161 Nos	1 No less	160 Nos
COMMERCIAL	37 Nos		37 Nos
RESIDENTIAL	124 Nos		123 Nos

ECS PROVIDED	415 ECS	5 Nos increased	420 ECS
COMMERCIAL	44 ECS	5 reduced	39 ECS
RESIDENTIAL	371 ECS	11 increased	382 ECS
TOTAL PARKING AREA PROVIDED	12944.53 Smt	168.78 Smt increase	13113.31 Smt
NOS OF STAIRCASE	5		5
NOS OF LIFT TOTAL	10 (5 Fire lift)		10 (5 Fire lift)
COP AREA			
REQUIRED COP AREA	757.00 Smt		757.00 Smt
PROVIDED COP AREA	1099.92 Smt		1099.92 Smt

2. Details of the Application:

2.1. Type of application:	EC-Amendment
2.2. Proposal no.	SIA/GJ/INFRA2/411219/2022
2.3. Category of Project :	8(a)
2.4. Date of applicationaccepted by SEAC	17/01/2023
2.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC, Fire fighting opinion etc.
2.6. TOR No. &Date :	Not applicable as project is categorized as B2
2.7. Technical expert / Environmental ConsultantName :	Kamlesh Vanza
2.8. SEAC Meeting No. and Date:	587TH SEAC Meeting and Date: 27.02.2023
2.9. ADS vide letter dated :	Not Applicable
2.10. Reply Submitted by PP on portal dated:	Not Applicable
2.11. Revised Consideration SEAC Meeting No. and Date:	Not Applicable

3. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/411219/2022
2.	Name of the project	**Proposed Redevelopment Project**
3.	Address of the Site	**Sub Plot No. 6/A, F.P. No. 5 (5/11, 5/12, 5/23) 27/2 + 28, TPS No. 1 (Chandlodia), Village: Chandlodia, Ta: Sabarmati, Dist: Ahmedabad**
4.	Name of Developer	**Nandkumar Nagar Co Operative Housing Society Ltd**
5.	Estimated Project Cost (Rs. In Crores)	**Rs. 47.5 Crore**
6.	Whether	No, construction has not started

<table>
<tr><td></td><td>construction work has been initiated at site? If yes, details thereof
And if No, Date up to which construction has not started.</td><td colspan="4"></td></tr>
<tr><td>7.</td><td>Details of Undertaking stating current status of construction at site.</td><td colspan="4">Attached as Annexure-15_Undertaking</td></tr>
<tr><td>8.</td><td>Whether NA permissions of all survey Nos have been obtained, details there of</td><td colspan="4">Attached in Annexure-11_Land Documents</td></tr>
<tr><td>9.</td><td>Site coordinates</td><td colspan="4">(with all coordinates of the polygon)<table><tr><td>A</td><td>23° 4'40.15"N</td><td>72°33'44.20"E</td></tr><tr><td>B</td><td>23° 4'40.41"N</td><td>72°33'45.89"E</td></tr><tr><td>C</td><td>23° 4'37.08"N</td><td>72°33'44.73"E</td></tr><tr><td>D</td><td>23° 4'38.19"N</td><td>72°33'46.30"E</td></tr></table></td></tr>
<tr><td>10.</td><td>Project Details</td><td colspan="4">• Land / Plot Area (m^2): 7570.00
• FSI area (m^2): 20421.00
Total BUA (m^2): 38184.37<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area(m^2)</td><td>20439.00</td><td>20421.00</td></tr><tr><td>Ground Coverage(m^2)</td><td>-</td><td>1488.10</td></tr><tr><td>Common Plot Area(m^2)</td><td>757.00</td><td>1099.92</td></tr><tr><td>Max. building height(m)</td><td>53.00 (from GF)</td><td>44.94 m (from GF)</td></tr></table></td></tr>
<tr><td>11.</td><td>In case of Expansion project/ Amendment project</td><td colspan="2">Reason of the Expansion</td><td colspan="2"></td></tr>
<tr><td></td><td></td><td colspan="2">Details of earlier EC obtained for the project</td><td colspan="2">SEIAA/GUJ/EC/8(a)/942/2022 Dated: 16/04/2022.</td></tr>
<tr><td></td><td></td><td colspan="2">Compliance of the earlier EC</td><td colspan="2">Submitted /Not submitted</td></tr>
<tr><td></td><td></td><td colspan="2" rowspan="2">Status of construction completed on site</td><td>Built up area constructed:</td><td>00</td></tr>
<tr><td></td><td></td><td>No. of blocks and floors constructed:</td><td>00</td></tr>
<tr><td></td><td></td><td colspan="2" rowspan="2">If earlier EC not applicable/not obtained for the project then details of Development Permission</td><td>Name of the Authority</td><td></td></tr>
<tr><td></td><td></td><td>Date of order</td><td></td></tr>
</table>

		(Rajachithhi) obtained from other Local Authority	Builtup area granted	
		Documentary proof submitted for supporting the expansion of the project.	Availability of Additional FSI, TDR, Revision in GDCR etc	

12. In case of Expansion/ Amendment

Tabular form stating the details granted in Earlier EC and Amendment /Expansion required.

Condition No.	Details as per EC Granted	Details require by the PP
Built-up area	38914.20 sqm	39184.37 sqm
FSI area	20349.46 sqm	20421.00 sqm

13. Building Details

No. of Buildings:	4
No. of Blocks:	5
Scope of buildings/blocks:	Cellar 2 + G.F + 14thfloor (Block A to B) Cellar 2 + G.F + 12thfloor (Block C to E)
No. & size of Residential Units:	246
No. & type of Commercial Units:	22
Details of amenities if any:	--

14. No. of expected residents / users/

938 residential, 200 commercial

15. Water & waste water details during construction phase and operation phase

CONSTRUCTION PHASE	
Water requirement (KL/day):	9.0
Source of water/Supply from-	Water supply from Tanker
Waste water generation quantity (KL/day):	2.0
Mode of disposal:	Soak Pit via Septic Tank
Details of reuse of water, if any:	--
OPERATION PHASE	
Total water Consumption (KL/day):	143.0
Fresh water requirement (KL/day):	90.9
Recycle of treated w/w, KL	52.2 KLD
A. Gardening area, m2	7.4 KLD
B. Flushing	44.8 KLD
C. Sprinklers (Nos in premises, with pipeline details)	---
D. Storage tank details for storage of treated domestic waste water in premises	40 KL

		Source of water:	Water supply from AMC
		Total Waste water generation quantity (KL/day):	115.3
		Treated Waste water to be reused	15.0
		Quantity and type (treated/untreated) of water to be discharged:	63.1 KLD, Treated water will be discharged through drainage line of AMC
		In case of STP provision, capacity of STP:	Yes, 130 KLD
		STP Technology:	ASP
		Provision of dual plumbing system (Yes/No):	Yes

16.	Status of water supply and drainage line and its permission/ acknowledgement details	Project belongs to AMC and they will provide water supply line and drainage line after issue of building use permission.

17. Solid waste Management

Construction Phase:

	Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
Top Soil	3028	3028	Will be reused for gardening & greenbelt development
Other excavated earth	55261	55261	Will be use within premises as building material & back filling/Remaining will be send to other project sites for filling of low-lying areas
Construction debris	450 Tone	300 Tone	Will be reused within premises and balance quantity will be disposed as per C&D waste rules 2016.
Steel scrap	whatsoever	--	Will be sold to local scrap vendors
Discarded packing materials	whatsoever	--	Will be sold to local recyclers
Others	NA	NA	

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	208	Blue Bins	To waste collectors

		Wet waste	311	Green Bins	OWC
		STP Sludge	13	Dry Manure	used in site premises and remaining Sold to nursery / farmer
		Details of segregation if to be done:		separate bins will be provided to collect dry and wet waste	
		Capacity and no. of community bins to be placed within premises:		36 Nos. of bin of 80 litre capacity	
		Landfill site where waste will be ultimately disposed by local authority:		separate bins will be provided to collect dry and wet waste	

18. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of stair case	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Block A+B	2B+ GF+ 14	700. 12	2	2.00	4(2 Fire)	2	17.48 < 25
Block C	2B+ GF+ 12	287. 62	1	2.00	2(1 Fire)	1	17.08 < 25
Block D		278. 40	1	2.00	2(1 Fire)	1	16.95 < 25
Block E		221. 96	1	2.00	2(1 Fire)	1	14.28 < 25

19.	Parking Details	As below:	Sq. mtrs.	CPS
	Total parking area requirement for the project as per GDCR:		4682.72	--
	Parking area requirement for residential units as per GDCR:		3685.19	--
	Parking area requirement for commercial units as per GDCR:		997.53	--
	Parking area requirement as per GDCR for (specify in case of any other):		--	--
	Total number of CPS requirement for the project as per NBC		--	160
	Total parking area provided (m^2) & No. of CPS:		13113.31	420
	Parking area provided in basement 1 (m^2) & No. of CPS:		6571.68	205
	Parking area provided in basement 2 (m^2) & No. of CPS:		4912.45	154
	Parking area provided in hollow plinth (m^2) & No. of CPS:		1203.71	43
	Parking area provided as open surface (m^2) & No. of CPS:		425.47	18
	Number of Visitor parking provided in the project (No. of CPS):			

20.	Traffic Management	Width of adjacent public roads:	18.0 m
		Number of Entry & Exit provided on approach road/s:	2
		Number of Entry and Exit ramp to the basement:	2

		Width of Entry & Exit provided on approach road/s:	7.5 meter	
		Width of the Roads:	Permissible	Proposed
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6.0	6.0
		Width of all internal roads:	6.0	6.0
21.	Details of Green Building measures proposed.	Provision to install aerated coke in wash basins, kitchen, low flush water closet in toilet and pressure reducing valves in water pipelines, rain water harvesting and ground water recharge, maximum utilization of natural lights, LED lightings		
22.	Energy Requirement, Source and Conservation	Power supply:	UGVCL	
		Maximum demand: Connected load: Source:	1300 KW 1300 KW UGVCL	
		Energy saving measures:	Use of transformers and motors having minimum efficiency of 85%, use of LED lights in the common areas, use of light colors to reduce the light absorption and minimize the cooling requirement, solar street lights etc.	
		Power Generation:	Required	Provided
		Solar power generation (Capacity in KW):	50 KW	65 KW
		No. of solar panels	--	112
		Capacity of each Solar cell	500 W	540 W
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting	130 kwh/day
			Total Solar Power Utilization for Water Pump	165 kwh/day
			Total Solar Power Utilization for Electric Vehicles Charging Station	2 kwh/day
			Other usage	--
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	--	1 Nos. of 125 KVA 15 liter/Hour (HSD)

23.	Electric vehicle charging provision	Total no. of EV Charging points provided	**84**
		Parking area designated for EV Charging parking	**Electric car charging stations will be provided for 84 of the required CPS**
		Total proposed EV charging capacity	42 slow EV Charging points 42 Fast EV Charging points
		Total power requirement to charge Electric Vehicle in kWh/day	420kWh/day
		Availability of power	*Out of 420 kWh/day of power requirement for Charging of Electric Vehicles, 2 kWh/day will be utilized from solar power generation and remaining 418 kWh/day will be utilized from Main Power Supply*
24.	Fire and Life Safety Measures	**During the construction phase**:	
		Fall Protection	Guardrails, fall arrest systems, safety nets and covers will be used to prevent deaths and injuries from falls. Use safety net systems or personal fall arrest systems (body harnesses).
		Foot Protection	If machines or operations present the potential for foot injury, the Contractor must provide foot protection, which is of safe design and construction for the work to be performed. Workers and visitors should not be allowed on a construction site without safety boots.
		Head Protection	If head hazards remain after all steps have been taken to control them (safety nets for work at heights, proper housekeeping), the Contractor must provide employees with appropriate head protection.
		Noise Protection	If head hazards remain after all steps have been taken to control them (safety nets for work at heights, proper housekeeping), the Contractor must provide employees with appropriate head protection.
		Eye Protection	When machines or operations present potential eye injury from physical or chemical elements, the Contractor must

			select, provide, maintain and required affected employees to use appropriate eye protection. Eye protection (safety glasses and goggles, face shields and welding helmets) must be adequate and reasonably comfortable.
		Ladders and Stairs	• The Contractor is required to inspect and maintain all ladders and temporary/portable steps to ensure that they are in good working condition. • Portable ladders used for access to an upper landing surface must extend a minimum of 1.8 m above the landing surface, or where not practical, be provided with grab rails and be secured against movement while in use. • All ladders must be used only on stable and level surfaces unless secured to prevent accidental movement. Ladders must not be used on slippery surfaces unless secured or provided with slip resistant feet to prevent accidental movement. • The Contractor should provide a ladder (or stairway) at all work points of access where there is a break in elevation of 0.5 m or more. • When there is only one point of access between levels, it must be kept clear to permit free passage by workers. If free passage becomes restricted, a second point of access must be provided and used. At all times, at least one point of access must be kept clear. • All required stairway and ladder fall protection systems must be provided and installed before employees begin work that requires them to use stairways or ladders.
		Scaffolds	• Access to Scaffolds - Access to and between scaffold platforms more than 0.6 m above or below the point of access will be made by portable/attachable ladders or ramps.

			• Employees must never use makeshift devices, such as boxes and barrels, to increase the scaffold platform working level height.
		Access to Scaffolds	• Access to and between scaffold platforms more than 0.6 m above or below the point of access will be made by portable/attachable ladders or ramps.
		Trenching and Excavation	• The area around the trench/excavation would be kept clear of surface encumbrances. • Water should not be allowed to accumulate in the excavation. • Adjacent structures would be shored in accordance with the design documents to prevent collapse. • Guardrails or some other means of protecting people from falling into the trench/excavation would be present. • The trench or excavation would be shored or sloped to prevent cave-ins.
		Electrical Safety	• If work has to be done near an overhead power line, the line must be de-energized and grounded before work is started. • A licensed electrician would have completed all temporary wiring and electrical installations required for construction activities. • Fuses and circuit breakers would be used to protect motherboards, conductors and equipment. • Extension cords for equipment or as part of a temporary wiring system will not be damaged or compromised in any way and insulation must be of the highest grade. • Anytime electrical equipment is deactivated for repair, or circuits are shut off, the equipment will be locked out and tagged at the point where it can be energized. • Temporary lights may not be

			suspended by their cords. • The Contractor would provide the necessary safety equipment, supplies and monitoring equipment to their personnel.
		Cranes	• A competent person has been designated to supervise activities that require the use of cranes. • Cranes would not be operated near any power lines. • All picks would be carefully planned to ensure that the crane adequately hoist the load. • The hoisting signals would be posted on the exterior of the crane.
		Occupational Noise Exposure	• The Contractor should implement engineering controls to reduce noise levels. • The Contractor should provide hearing protection to employees that are exposed to noise levels above the permissible limit.
		Welding and Cutting	• The Contractor's employees would be trained in hot work procedures. • There should be adequate ventilation to reduce the build-up of metal fume. • The hot work operators would use proper personal protective equipment (i.e., welding helmet, burning goggles, face shield, welding gloves, and apron). • There would be a fire extinguisher present at all welding and burning activities. • Extinguishers would also be placed at locations where slag and sparks may fall. • Oxygen and flammable gas bottles are separated by at least 7 m when not in use. • The Contractor would control the release of gases, vapors, fumes, dusts, and mists with engineering controls (e.g., adequate ventilation).
		Others	--

		During the operation phase"	Fire safety measures	fire extinguishers at each floor, underground fire water storage tank (1 no. of 250 KL & 1 no. of 145 KL), terrace water tank (20 KL on each building), smoke detectors, fire sprinklers, basement sprinkler, fire mist system
			Capacity of Underground fire water tank	250 KL
			Capacity of Overhead fire water tank	20 KL on each building
		Status of fire opinion obtained for the project, submit details	Obtained, Attached as Annexure-9_Fire Opinion	
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Sabarmati Fire Station at around 2.68 km away from the project site. It takes around 5 minutes to reach the site.	
25.	Rain Water Harvesting (RWH)	Level of the Ground water table:	>10 meter	
		RWH/Percolation well details:	Required	Provided
		No. of RWH tank(s)	--	1
		Dimensions of RWH tank(s) :	--	4.5 m X 4.5 m X 4 m = 81 KL
		No. of percolations wells :	--	2 Nos. of percolating wells, Depth > 10 m
		Depth of percolations wells :	--	Depth > 10 m
		Details on Pre-treatment facilities	--	Catch pit with filtration media
26.	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2) :	--	380
		Area covered by shrubs and bushes (m^2):	--	--
		Lawn covered area (m^2):	--	1099.92
		Total Green Area (m^2):	--	1479.92
		Green Area % of plot area:	10%	19.55 %
		No. of trees and species to be planted:	190	190

27.	Basic amenities to be provided to construction workers.	Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc.	
28.	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**
		Air	Dust suppression measures are undertaken such as regular sprinkling of water around vulnerable areas of the construction site by suitable methods to control fugitive dust during earthwork and construction material handling/ over hauling. Properly tuned construction machinery & vehicles in good working condition with low noise & emission are used and engines are turned off when not in use.
		Noise Control	Protective gears such as ear mufflers etc. are provided to construction personnel exposed to high noise levels.
		Water	Toilet and drinking water facilities for construction workers are provided by the contractor at the construction site to avoid unhygienic condition at site.
		Solid and hazardous waste management	Waste construction materials are recycled and excess construction debris are disposed at designated places in tune with the local norms.
		Environment monitoring	
		Rain water	Adequate rainwater harvesting will be provided
		Green belt	190 nos. Trees and Lawn Area Development
		Solar Energy	Roof Top Solar – 59.32 KW; Terrace Space require – 593.20 Sq.m.
		Fire & Safety	Adequate fire protection facilities will be installed including fire detectors, fire alarm and firefighting system as per National Building Code. Adequate safety measures complying to the occupational safety manuals to prevent accidents/hazards to the maintenance workers
		CER	Solid waste management, Solar panel in village school and hospitals & Tree plantation.
		Amenities/ Occupational health center.	Drinking water and sanitation facilities for worker. PPE's will be provided to workers during Construction Phase.
29.	Budgetery provision of Environment Management plan		

Sr. No	Head	Basis for cost estimates	Total Capital cost (Rs. In lacs) (Construction and operation phase)	Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)	Implementation Plan For Capital Expenditure
1.	Air	Dust Mitigation Measures like…Details ……	9,08,400	--	
		Stack and DG room, its capacity	1,25,000	60,000	
2	Noise Control	Noise control measures like provision of…..	13,00,000	2,60,000	
3.	Water	35 KLD – ASP Type STP, Area Require – 23 Sq. m.,	50,000	25,000	
4.	Solid and hazardous waste management	75 Kg/Day – Automatic OWC Area require – 1.25 Sq.m.	3,25,000	60,000	
5.	Environment monitoring	The recurring cost would be incurred on hiring of consult-ants and payment of various statutory fees to regulatory agencies.	--	75,000	
6.	Rain water	Collection system, treatment and recharge well – 1 nos. P. W.C.	4,00,000	20,000	
7.	Green belt	72 nos. Trees and Lawn Area Development	6,51,978	65,198	
8.	Solar Energy	Roof Top Solar – 65 KW; Terrace Space	26,00,000	52,000	

			require – 650 Sq.m.			
9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from SMC and Fire and Safety Equipment and PPE's will be provided to workers during Construction Phase.	30,91,420	3,89,142		
10.	CER	A. Solid waste management providing OWC 3 nos in three years 1- RS.5 lakh. 2 Rs. 5 Lakh 3 Rs. 5 Lakh TotalRs.15 Lakh B. Solar panel in village school in three years 1- RS.17 lakh. 2 Rs. 16 Lakh 3 Rs. 17 Lakh Total Rs.50 Lakh C. Tree plantation in this TP in three years 1- RS.10 lakh. 2 Rs. 10 Lakh 3 Rs. 10 Lakh Total Rs.30 Lakh	95,00,000	--		
11.	Amenities/	Providing of amenities facility for worker	10,00,000	--		

		Occupational health center				
		Total		**1,99,51,798**	**10,04,498**	

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.
2. The project proponent shall construct 4 nos of buildings [Cellar 2 + G.F + 14thfloor (Block A to B) Cellar 2 + G.F + 12thfloor (Block C to E)].
3. The height of the building shall not be higher than 44.94 mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 6 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 23 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 9.0 KLD and it shall be met through Tanker . No ground water shall be tapped during the construction phase.
9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 143.0KLD, out of which fresh water requirement of 90.9KLD shall be met through AMC and the remaining 52.2 KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.
15. Sewage generation during operation phase shall not exceed 115.3KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of AMC.
17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 2 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff, pre-treatment must be done to remove suspended matter.

(iv) AIR:

21. A D. G. set (125 KVA) proposed as backup power shall be of enclosed type and confirm to

prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.

22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(v) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the other garbage shall be disposed off properly as per the provisions made by the AMC .

(vi) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like fire extinguishers at each floor, underground fire water storage tank (1 no. of 250 KL & 1 no. of 145 KL), terrace water tank (20 KL on each building), smoke detectors, fire sprinklers, basement sprinkler, fire mist system, terrace water tanks of 20 KL capacity on each building , underground water tank of 250 KL, etcshall be provided.
27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Block A+B	2B+GF+14	700.12	2	2.00	4(2 Fire)	2	17.48 < 25
Block C	2B+GF+12	287.62	1	2.00	2(1 Fire)	1	17.08 < 25
Block D		278.40	1	2.00	2(1 Fire)	1	16.95 < 25
Block E		221.96	1	2.00	2(1 Fire)	1	14.28 < 25

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.

29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.
31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.
32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vii) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 13113.31m^2 (420CPS) [11484.13 m^2 in Basement + 1203.71m^2 in Hollow Plinth + 425.47m^2 in open area] shall be provided as proposed.

(viii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & solar street light, 59.32 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(ix) GREEN BELT:

35. Green belt area of 1479.92m2 comprising of 380m2 tree covered area with 190trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(x) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 199..51 Lakhs and Recurring cost of Rs 10.04 Lakhs in Construction Phase& Operation Phase.

(xi) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 95 Lakhs as committed before SEAC for activities like Solid waste management providing OWC 3 nos in three years 1- RS.5 lakh. 2 Rs. 5 Lakh 3 Rs. 5 Lakh TotalRs.15 Lakh Solar panel in village school in three years 1- RS.17 lakh. 2 Rs. 16 Lakh 3 Rs. 17 Lakh Total Rs.50 Lakh Tree plantation in this TP in three years 1- RS.10 lakh. 2 Rs. 10 Lakh 3 Rs. 10 Lakh Total Rs.30 Lakh
38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.
39. The said activities shall be completed within 3 years from the commencement of the project.
40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of

MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.
2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.
6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.
7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

3	**SIA/GJ/INFRA2/411968/2022**	**RESIDENTIAL CUM COMMERCIAL BUILDING PROJECT R.S./Block No. - 179, O.P. No. - 50, F.P. No. - 52, Sub Division - 52/2,T.P.S. No. - 10 (Pal) At- Surat, Gujarat.**	**EC-New**

- This office has received an application for Environment Clearance of the above project vide

proposal no. SIA/GJ/INFRA2/411968/2022 dated: 17/01/2023 .

- This is a proposed Residential cum commercial building construction project having net plot area of 4,593.29 m2, FSI area of 18,142.18 m2 and the proposed built-up area of the project is 33,319.22 m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.
- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Details of the Application:

1.1. Type of application:	EC-New
1.2. Proposal no.	SIA/GJ/INFRA2/411968/2022
1.3. Category of Project :	8(a)
1.4. Date of applicationaccepted by SEAC	17/01/2023
1.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC,etc.
1.6. TOR No. &Date :	Not applicable as project is categorized as B2
1.7. Technical expert / Environmental ConsultantName :	Mr. Pankaj Lakhani
1.8. SEAC Meeting No. and Date:	Meeting no: 587 Date :27/02/2023

2. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/411968/2022
2.	Name of the project	Residential Cum Commercial Building

<table>
<tr><td>3.</td><td>Address of the Site</td><td>R.S./Block No. - 179, O.P. No. - 50, F.P. No. - 52, Sub Division - 52/2, T.P.S. No. - 10 (Pal) At- Surat, Gujarat.</td></tr>
<tr><td>4.</td><td>Name of Developer</td><td>M/s. Samarth Builders</td></tr>
<tr><td>5.</td><td>Estimated Project Cost (Rs. In Crores)</td><td>Rs. 46.60 crores</td></tr>
<tr><td>6.</td><td>Whether construction work has been initiated at site? If yes, details thereof
And if No, Date up to which construction has not started.</td><td>No, undertaking is already submitted in this regard.</td></tr>
<tr><td>7.</td><td>Details of Undertaking stating current status of construction at site.</td><td>Notarized Undertaking of no construction activity started is submitted with the application.</td></tr>
<tr><td>8.</td><td>Whether NA permissions of all survey Nos have been obtained, details there of</td><td>Yes, submitted along with application</td></tr>
<tr><td>9.</td><td>Site coordinates</td><td>(with all coordinates of the polygon)
<table>
<tr><td>1.</td><td>21°12'3.46"N</td><td>72°46'15.64"E</td></tr>
<tr><td>2.</td><td>21°12'2.32"N</td><td>72°46'14.48"E</td></tr>
<tr><td>3.</td><td>21°12'4.62"N</td><td>72°46'14.32"E</td></tr>
<tr><td>4.</td><td>21°12'4.68"N</td><td>72°46'16.52"E</td></tr>
<tr><td>5.</td><td>21°12'2.72"N</td><td>72°46'16.65"E</td></tr>
<tr><td>6.</td><td>21°12'2.38"N</td><td>72°46'16.43"E</td></tr>
</table></td></tr>
<tr><td>10</td><td>Project Details</td><td>• Land / Plot Area (m^2) 4,593.29
• FSI area (m^2): 18,142.18
• Total BUA (m^2): 33,319.22
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area(m^2)</td><td>18,373.16</td><td>18,142.18</td></tr>
<tr><td>Ground Coverage(m^2)</td><td>-</td><td>3,012.13</td></tr>
<tr><td>Common Plot Area(m^2)</td><td>459.33</td><td>459.43</td></tr>
<tr><td>Max. building height(m)</td><td>80.01</td><td>44.96</td></tr>
</table></td></tr>
<tr><td>11</td><td>In case of Expansion project/ Amendment project</td><td>
<table>
<tr><td>Reason of the Expansion</td><td><u>Not applicable</u></td></tr>
<tr><td>Details of earlier EC obtained for the project</td><td>SEIAA/GUJ/EC/8(a)/..../.... Dated:.....</td></tr>
<tr><td>Compliance of the earlier EC</td><td>Submitted /Not submitted</td></tr>
<tr><td>Status of construction completed on site</td><td>Built up area constructed:</td></tr>
</table></td></tr>
</table>

			No. of blocks and floors constructed:	
		If earlier EC not applicable/not obtained for the project then details of Development Permission (Rajachithhi) obtained from other Local Authority	Name of the Authority	
			Date of order	
			Builtup area granted	
		Documentary proof submitted for supporting the expansion of the project.	Availability of Additional FSI, TDR, Revision in GDCR etc	

12 In case of Expansion/ Amendment

Not applicable

Tabular form stating the details granted in Earlier EC and Amendment /Expansion required.

Condition No.	Details as per EC Granted	Details require by the PP

13	Building Details	No. of Buildings: 3
		No. of Blocks: 4
		Scope of buildings/blocks: 3 nos of buildings having Basement +Hollow plinth + 14 floors.
		No. & size of Residential Units: 208
		No. & type of Commercial Units: 8
		Details of amenities if any: Club house and jogging track
14	No. of expected residents / users/	Residents:1,080 Visitors: 108

15	Water & waste water details during construction phase and operation phase	**CONSTRUCTION PHASE**	
		Water requirement (KL/day):	15
		Source of water/Supply from-	Water supply from SMC
		Waste water generation quantity (KL/day):	2.1

		Mode of disposal:	Disposal into soak pit and septic tank
		Details of reuse of water, if any:	2.8 KLD Recycle Water from Washing of construction equipment
		OPERATION PHASE	
		Total water Consumption (KL/day):	149.4 kl/day
		Fresh water requirement (KL/day):	88.84 kl/day
		Recycle of treated w/w, KL	60.56 kl/day
		A. Gardening area, m2	2 kl/day
		B. Flushing	58.56 kl/day
		C. Sprinklers (Nos in premises, with pipeline details)	17 Sprinklers will be provided with appropriate pipeline infrastructure.
		D. Storage tank details for storage of treated domestic waste water in premises	200 kl/day
		Source of water:	SMC
		Total Waste water generation quantity (KL/day):	118.12 kl/day
		Treated Waste water to be reused	60.56 kl/day
		Quantity and type (treated/untreated) of water to be discharged:	57.56 kl/day into u/g drainage line of SMC
		In case of STP provision, capacity of STP:	130 kl/day
		STP Technology:	MBBR technology
		Provision of dual plumbing system (Yes/No):	Yes
16	Status of water supply and drainage line and its permission/ acknowledgement details	The project is under SMC , well planned sewage and water supply network is exists in the vicinity of the project moreover ,drainage connection and water supply connection shall be awarded after approval of plan as per the practice of SMC	

17	Solid waste Management	**Construction Phase**:			
			Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
		Top Soil	459.32 m^3	250 m^3	250 m^3 of excavated Topsoil Utilized for greenbelt development
		Other excavated earth	10,178.27m^3	2,755.97 m^3	Excess soil of 7,631.62 m^3 shall be utilized at other project site after obtaining necessary permission if any
		Construction debris	100 kg/day	Nil	Send to C & D waste management facility
		Steel scrap	15 kg/day	Nil	Sold off to recyclers
		Discarded packing materials	6 kg/day	-	Sold off to recyclers
		Others	-	-	-
		Operation Phase:			
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry waste	172 kg/day	Into bins to be provided Within premises	Disposal through door-to-door waste collection system of
		Wet waste	257 kg/day		

				SMC.
STP Sludge	15 kg/day	Manual	As manure within premise or sold	
Details of segregation if to be done:	For Solid waste segregation at source will be adopted and wet waste will be processed within premises using OWC, Recyclable material will be sold to recycler.			
Capacity and no. of community bins to be placed within premises:	2 nos of bin having capacity of 50 kg each for dry waste and 70 kg for wet waste will be provided to each block.			
Landfill site where waste will be ultimately disposed by local authority:	Khajod Disposal Site			

18 Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A	B+G+14	402.05	1	2.0 m	2	1	Less than 15 m
B	B+G+14	409.10	1	2.0 m	2	1	Less than 15 m
C-D	B+G+14	560.49	2	2.0 m	4	2	Less than 15 m

19 Parking Details	As below:	Sq. mtrs.	CPS
Total parking area requirement for the project as per GDCR:		3,721.69	-
Parking area requirement for residential units as per GDCR:		3,566.26	-
Parking area requirement for commercial units as per GDCR:		155.43	NA
Parking area requirement as per GDCR for (specify in case of any other):		NA	NA
Total number of CPS requirement for the project as per NBC		-	188
Total parking area provided (m^2) & No. of CPS:		5678.93	294
Parking area provided in basement (m^2) & No. of CPS:		3,213.04	166
Parking area provided in hollow plinth (m^2) & No. of CPS:		1,065.74	55
Parking area provided on 1st floor (m^2) & No. of CPS:		1,328.69	69

	Parking area provided as open surface (m^2) & No. of CPS:			71.46	4
	Number of Visitor parking provided in the project (No. of CPS):			-	31
20	Traffic Management	Width of adjacent public roads:	18 mt wide Road & 12 mt wide road		
		Number of Entry & Exit provided on approach road/s:	Two gates will be provided		
		Number of Entry and Exit ramp tothe basement:	2		
		Width of Entry & Exit provided on approach road/s:	6.0 m		
		Width of the Roads:	Permissible	Proposed	
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6	6.00	
		Width of all internal roads:	4.50	6	
21	Details of Green Building measures proposed.	Provision to install aerated coke (Foam Type) in wash basins, kitchen, low flush water closets in toilet and pressure reducing valves in water pipeline, rainwater harvesting & ground water recharge, maximum utilization of natural light, roof-top thermal insulation, LED lighting fixtures in the common areas, appropriate design to shut out excess heat and gain loss, use of solar energy in external lighting (landscape lighting), use of aerated blocks etc.			
22	Energy Requirement, Source and Conservation	Power supply:			
		Maximum demand: Connected load: Source:	1100 KW 1200 KW DGVCL		
		Energy saving measures:	Maximum utilization of natural light, roof-top thermal insulation, LED lighting fixtures in the common areas, appropriate design to shut out excess heat and gain loss, use of solar energy in external lighting (Landscape lighting), use of aerated blocks etc.		
		Power Generation:	Required		Provided
		Solar power generation (Capacity in KW):	55		100
		No. of solar panels	102		185
		Capacity of each Solar cell	500 W		540 W
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting		42 kw

			Total Solar Power Utilization for Water Pump	20 kw
			Total Solar Power Utilization for Electric Vehicles Charging Point	38 kw
			Other usage	No
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	Diesel (10 Litre/h)	2 nos and 125 KVA diesel (10 Litre/h)
23	Electric vehicle charging provision	Total no. of EV Charging points provided	59	
		Parking area designated for EV Charging parking	Ground area & basement area will be having EV Charging Points.	
		Total proposed EV charging capacity	We will provide additional power load equivalent to the power required for all charging points to be operated simultaneously, with Safety factor of 1.25	
		Total power requirement to charge Electric Vehicle in kWh/day	189 KWh/day	
		Availability of power	*Out of 189 KWh/day of power requirement for Charging of Electric Vehicles, 142 kWh/day will be utilized from solar power generation and remaining 47 KWh/day will be utilized from DGVCL*	
24	Fire and Life Safety Measures	**During the construction phase**:		
		Fall Protection	Falling nets, safety belts will be provided.	
		Foot Protection	Safety shoes, gumboot will be provided.	
		Head Protection	Helmets will be provided.	
		Noise Protection	Earmuffs & Earplugs will be provided to the workers.	
		Eye Protection	Safety goggles, face shields will be provided.	
		Ladders and Stairs	Single Pole Ladders, Extension Ladders & Step Ladders will be used.	
		Scaffolds	Jack type double scaffolding (MS)	
		Access to Scaffolds	Fixed ladder, Internal access stairway or Built in ladder to access the working platform.	
		Trenching and Excavation	Barricades, Guards will be provided during Trenching and Excavation activities.	

		Electrical Safety	Electrical gloves and footwear will be provided while handling electrical materials.	
		Cranes	Begin hoisting only if nobody is nearby. Ensure there are no obstructions to load movement. Pad sharp edges on the load to avoid rigging damage. Latches on hooks/hoists, and emergency disconnects, are in place and tested periodically. Load Testing Through Approved Agency Periodically.	
		Occupational Noise Exposure	Hearing protection devices will be provide to workers working surrounding noise generation areas	
		Welding and cutting	Eye protection, leather welding gloves and hot molten slag. Low cut shoes and trousers with cuffs or open pockets will be provided.	
		Others	No	
		During the operation phase"	Fire safety measures	The fire protection system will comprise of the following: • Hydrant system - Wet Riser system. • External Hydrant. • Sprinkler system. • Pumps. • Fire Extinguisher • Fire Alarm System Mock drills will be done timely to aware the residents. Keep printed board showing important telephone number of fire, ambulance, hospital etc. training to the workers on safety aspects, first aid box at identified places within premise, doctor & ambulance services, provision of PPE's like helmet, gumboot/safety net, safety goggles etc.
			Capacity of Underground fire water tank	200 KL

			Capacity of Overhead fire water tank	25 KL
		Status of fire opinion obtained for the project, submit details	Fire opinion obtained from SMC	
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Palanpore fire station (583.02 m, max 5 minutes time required)	
25	Rain Water Harvesting (RWH)	Level of the Ground water table:	8.00 m	
		RWH/Percolation well details:	Required	Provided
		No. of RWH tank(s)	2	2
		Dimensions of RWH tank(s) :	2	2 nos. (2m x 2m x 2m)
		No. of percolations wells :	2	2 nos.
		Depth of percolations wells :	-	40 m
		Details on Pre-treatment facilities	-	Screen pit before the percolation well
26	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2) :	-	250
		Area covered by shrubs and bushes (m^2):		included in lawn covered area
		Lawn covered area (m^2):	-	250
		Total Green Area (m^2):	459.33	500
		Green Area % of plot area:	10.00%	10.88%

		No. of trees and species to be planted:	69	80 Gulmohar, Jambu, Limdo, Gunda, kadam, Rayan, Mahudo, Umro etc
27	Basic amenities to be provided to construction workers.	All the labors shall be registered as per Building and Other construction Workers (Regulation of Employment and Conditions of Services) Act, 1996 and Building and Other Construction Workers Welfare Cess Act, 1996 Sanitation facilities such separate toilet for male and female, drinking water & tap water including cooler, accommodation, creches, first aid box at every junction, free basic medicine, doctor service on call as well as regular health check-up, adequate PPEs etc shall be provided to construction workers.		
28	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**	
		Air	**Construction Phase:** ❖ Loading & Transportation in covered Trucks. ❖ Covered shed provided for material unloading activity. ❖ For material handling, closed material handling conveyor system shall be deployed. ❖ Temporary windshield barrier up to height of 10 m shall be provided with help of galvanized sheets and bamboos. ❖ All areas for storing C&D wastes / construction material to be demarcated and preferably barricaded particularly those materials that have potential to be dust borne. ❖ Sprinkling of water on roads and in vicinity of storage area. ❖ All access roads shall be Tarred/Concrete. are exceeded. ❖ Adequate sprinkler systems (or water carts) to dampen areas shall be used at all times where practicable and when	

			project trigger levels are exceeded. ❖ During excavation due care shall be taken that the excavator shall not release the sand from higher elevation. **Operation phase** ❖ Silent D.G. set will be used, which wil meet latest emission norms. ❖ D.G set will be stand by or utilized in case of emergency during the power failure. Monthly maintenance work will be carried out.
		Noise Control	**CONSTRUCTION PHASE:** Acoustic mufflers / enclosures to be provided in large engines/machineries. The mitigation measures will include maintenance of the vehicles and heavy machinery. Provision of personal protective equipment to the workers working in high noise level. **OPERATION PHASE:** Noise from DG set will be controlled by providing an acoustic enclosure. Proper Traffic Signage will be placed at several places within premises
		Water	**CONSTRUCTION PHASE:** Sewage wastewater shall be disposed through soak pit/septic tank. **OPERATION PHASE:** 130 KLD – MBBR technology Type STP, Area Require -110.00 Sq. m.
		Solid and hazardous waste management	**CONSTRUCTION PHASE** construction and domestic waste will be sent to C&D management facility of SMC (according to the C&D Waste Management Rule 2016) **OPERATION PHASE:** I. Very small quantity of used oil shall be generated from the DG set. This shall be sent to approved recycler or rousers. II. STP Sludge will be used a manure for gardening purpose.

			III. For Solid waste segregation at source will be adopted and wet waste will be processed within premises using OWC. IV. Recyclable material shall be disposed as per the practice of SMC.
		Environment monitoring	**AirPollutionMonitoring:** OnceSixmonths **WaterPollutionMonitoring:** Once inevery season **NoiseQualityMonitoring:** Onceina year
		Rainwater	Provision of collection system, treatment and rechargewells- 2nos.
		Green belt	500 m^2 area is proposed as green belt area. The saplings and plants grown will be taken care and maintained.Adequate amount of water, fertilizers and other required needs will be fulfilled according to the horticultural practices.
		Solar Energy	185 nos of solar panels of 100 KW will be installed and will be utilized as mentioned above. These will be maintained according to needs.
		Fire & Safety	**CONSTRUCTION PHASE:** Safety Equipment and PPE's will be provided to workers during Construction Phase. Fall Protection, Safety Net , Ladders and Stairs Scaffolds, Trenching and Excavation Electrical Safety, Welding and Cutting **OPERATION PHASE:** The fire protection system will comprise of the following: • Hydrant system - Wet Riser system. • External Hydrant. • Sprinkler system. • Pumps. • Fire Extinguisher • Fire Alarm System Mock drills will be done timely to aware the residents. Keep printed board showing

			important telephone number of fire, ambulance, hospital etc. training to the workers on safety aspects, first aid box at identified places within premise, doctor & ambulance services, provision of PPE's like helmet, gumboot/safety net, safety goggles etc.		
		CER	Year	Amount	Activity
			1st year	25 lakhs	Installation of Drinking water purifiers at public places and maintain it for 4 years for awareness to reduce usage of plastic water bottles in Rander area.
			2nd year	22 lakhs	Avenue plantation along with maintenance of 4 year along with Tena creek
			3rd year	30 lakhs	Zero waste marriage/community function by onsite treatment of wet waste and minimizing dry waste by utilizing recyclable product

					in the community / marriage halls in Adajan area. In association with SMC
			4th year	16 lakhs	Installation of solar panel and drinking water facility at Rander Primary health center.
		Amenities/ Occupational health center.	All the basic amenities like housing, drinking water facility, creches, sanitation facility, first aid, health check-ups, insurances, safety will be provided.		

29 Budgetery provision of Environment Management plan

Sr. No	Head	Basis for cost estimates	Total Capital cost (Rs. In lacs) (Construction and operation phase)	Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)	Implemer For Capit
1.	Air	Dust Mitigation Measures Sprinkling of water, wind barricading, material handling and storage.	22	1	Within 1st
		Stack and DG room, its capacity	34	1	
2	Noise Control	Noise control measures a. Acoustic enclosures will	5	1	

				be used to maintain noise levels. b. Machines will be well maintained to avoid noise generation c. Noise generated activities will be restricted to daytime only			
		3.	Water	130 KLD – MBBR technology Type STP, Area Require -110.00 Sq. m.,	105	3	
		4.	Solid and hazardous waste management	150 Kg/Day – Automatic OWC Area required – 120 Sq.m.	08	1	
		5.	Environment monitoring	The recurring cost would be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.	01	0.5	
		6.	Rain water	Collection system, treatment and recharge well – 2 nos. P. W.C.	8	2.5	
		7.	Green belt	80 nos. Trees and Lawn Area Development	30	3	
		8.	Solar Energy	Roof Top Solar –100 KW; Terrace Space require – 600 Sq.m.	70	2	
		9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from SMC and Fire and Safety Equipment and PPE's will be provided to	150	5	

				workers during Construction Phase.					
		10.	CER	Year	Amount	Activity	93	0	
				1st year	25 lakhs	Installation of Drinking water purifiers at public places and maintain it for 4 years for awareness to reduce usage of plastic water bottles in Rander area.			
				2nd year	22 lakhs	Avenue plantation along			

						with maintenance of 4 year along with Tena creek			
				3rd year	30 lakhs	Zero waste marriage/community function by onsite treatment of wet waste and minimizing dry waste by utilizing recyclable product in the community /			

						marriage halls in Adajan area. In association with SMC			
			11.	Amenities/ Occupational health center	All the basic amenities like housing, drinking water facility, creches, sanitation facility, first aid, health check-ups, insurances, safety will be provided.		18	3	
			Total				544	23	
30	Details of Environmental Consultant (If any)	Name of the Consultant	Mr. Pankaj Lakhani						

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.

2. The project proponent shall construct 3 nos of buildings [Basement +Hollow plinth + 14 floors.].
3. The height of the building shall not be higher than 44.96mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 6 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 21 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 15 KLD and it shall be met through SMC . No ground water shall be tapped during the construction phase.
9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 149.4 KLD, out of which fresh water requirement of 88.84 KLD shall be met through SMCand the remaining 60.56 KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.
15. Sewage generation during operation phase shall not exceed 118.12 KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated

sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of SMC.

17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 2 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff, pre-treatment must be done to remove suspended matter.

(iv) AIR:

21. A D. G. set (2 X 125 KVA) proposed as backup power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(v) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the other garbage shall be disposed off properly as per the provisions made by the SMC.

(vi) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like Hydrant system - Wet Riser system.External Hydrant.Sprinkler system.Pumps.Fire Extinguisher Fire Alarm System , terrace water tanks of 25 KL capacity, underground water tank of 200 KL, etcshall be provided. A lightening arrester will be installed and

properly earthed.

27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A	B+G+14	402.05	1	2.0 m	2	1	Less than 15 m
B	B+G+14	409.10	1	2.0 m	2	1	Less than 15 m
C-D	B+G+14	560.49	2	2.0 m	4	2	Less than 15 m

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.
29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.
31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.
32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vii) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 5678.93 m^2 (294CPS) [3,213.04m^2 in Basement + 1,065.74m^2 in Hollow Plinth +1,328.69m^2 in 1st floor+71.46m^2 in open area] shall be provided as proposed.

(viii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & solar street light, 100 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(ix) GREEN BELT:

35. Green belt area of 500m2 comprising of 250m2 tree covered area with 80trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(x) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 544Lakhs and Recurring cost of Rs 23Lakhs in Construction Phase& Operation Phase.

(xi) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 93 Lakhs as committed before SEAC for activities like Installation of Drinking water purifiers at public places and maintain it for 4 years for awareness to reduce usage of plastic water bottles in Rander area.Avenue plantation along with maintenance of 4 year along with Tena creekZero waste marriage/community function by onsite treatment of wet waste and minimizing dry waste by utilizing recyclable product in the community / marriage halls in Adajan area. In association with SMC.

38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.

39. The said activities shall be completed within 3 years from the commencement of the project.

40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.
2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions

as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.

6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.

7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

4	**SIA/GJ/INFRA2/412006/2022**	**Festival O2 Survey. No. 459/1, FP No.: 191/1, OP No.: 193/1, TPS No. 56, (Sola-Gota-Ognaj), Village: Gota, Ta: Ghatlodiya, Dist: Ahmedabad**	**EC-Expansion**

- This office has received an application for Environment Clearance for expansion of the above project vide proposal no. SIA/GJ/INFRA2/412006/2022 dated: 17-01-2023.
- The project proponent has obtained Environmental Clearance obtained vide order SEIAA/GUJ/EC/8(a)/751/2022 Dated: 10/03/2022.
- This is a proposed Residential cum commercial building construction project having net plot area of 8320.00 m2, FSI area of 26439.69 m2 and the proposed built-up area of the project is 52584.78 m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.
- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Proposed changes due to Expansion:

Details	As per previous EC (Existing)	Proposed changes	Total
BUILTUP AREA	48074.14 Smt	4510.64 Smt	52584.78 Smt
FSI AREA	22460.26 Smt	3979.43 Smt	26439.69 Smt
NO OF UNITS	248	45	293
COMMERCIAL		12	12

RESIDENTIAL	248	33	281
NO OF BLOCKS	6	0	6
NO OF BUILDINGS	6	0	6
BUILDING HEIGHT	44.45 mt		44.45 mt
POWER REQUIREMENTS			
CONSTRUCTION PHASE	50 KW	0	50 KW
OPERATION PHASE	1200 KW	150	1350 KW
WATER			
CONSTRUCTION WATER REQUIREMENT	9 Kld	0	9 Kld
CONSTRUCTION WASTE WATER	2 Kld	0	2 Kld
TOTAL WATER REQUIREMENTS	140.20 Kld	20.6	160.8 Kld
FRESH WATER REQUIREMENTS	89.7 Kld	13.5	103.2 Kld
TOTAL SEWAGE	113.80 Kld	17.1	130.9 Kld
TREATED SEWAGE WATER	50.50 Kld	7.1	57.6 Kld
TREATED WATER DISCHARGED IN TO SEWER	63.40 Kld	10	73.4 Kld
MUNICIPAT WASTE TOTAL			
DRY WASTE	198 Kg/day	32	230 Kg/day
WET WASTE	298 Kg/day	47	345 Kg/day
OWC CAPACITY	300 Kg/day	175	475 Kg/day
TOTAL MANURE GENERATION	96 Kg/day	64	160 Kg/day
MUNICIPAT WASTE TOTAL			
PARKING DETAILS			
TOTAL CPS REQUIRED	124 Nos	167	291 Nos
COMMERCIAL		54	54 Nos
RESIDENTIAL	124 Nos	96	220 Nos
ECS PROVIDED	426 ECS	92	518 ECS
COMMERCIAL		71	71 ECS
RESIDENTIAL	426 ECS	113	539 ECS
TOTAL PARKING AREA PROVIDED	13448.07 Smt	2953.17	16401.24 Smt
NOS OF STAIRCASE	6	0	6
NOS OF LIFT TOTAL	12 (6 Fire lift)	0	12 (6 Fire lift)
PARKING DETAILS			
TOTAL CPS REQUIRED	124 Nos	167	291 Nos
COP AREA			
REQUIRED COP AREA	832 Smt	0	832 Smt
PROVIDED COP AREA	834.35 Smt	92.71	927.06 Smt
NOS OF LIFT FOR FIRE	3	0	3
TOTAL GREEN AREA	1250.35 Smt	92.71	1343.06 Smt
TREE TO BE PLNATED	208	0	208
NOS OF PERCOLATING WELLS	3	0	3

CER TOTAL VALUE INR	17,792,000.00	1,208,000.00	19,000,000.00
COP AREA			
REQUIRED COP AREA	832 Smt	0	832 Smt
PROVIDED COP AREA	834.35 Smt	92.71	927.06 Smt
TREE TO BE PLNATED	208	0	208
NOS OF PERCOLATING WELLS	3	0	3

2. Details of the Application:

2.1. Type of application:	EC-Expansion
2.2. Proposal no.	SIA/GJ/INFRA2/412006/2022
2.3. Category of Project :	8(a)
2.4. Date of applicationaccepted by SEAC	--
2.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC, Fire fighting opinion etc.
2.6. TOR No. & Date :	Not applicable as project is categorized as B2
2.7. Technical expert / Environmental Consultant Name :	Kamlesh Vanza
2.8. SEAC Meeting No. and Date:	587TH SEAC Meeting and Date: 27.02.2023
2.9. ADS vide letter dated :	Not Applicable
2.10. Reply Submitted by PP on portal dated:	Not Applicable
2.11. Revised Consideration SEAC Meeting No. and Date:	Not Applicable

3. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/412006/2022
2.	Name of the project	**Festival O2**
3.	Address of the Site	**Survey. No. 459/1, FP No.: 191/1, OP No.: 193/1, TPS No. 56, (Sola-Gota-Ognaj), Village: Gota, Ta: Ghatlodiya, Dist: Ahmedabad**
4.	Name of Developer	**Vansh Developers**
5.	Estimated Project Cost (Rs. In Crores)	**Rs. 95.0 Crore**
6.	Whether	Yes. For block.A – 2nd basement comp., block.D- 1st basement comp.,

<table>
<tr><td></td><td>construction work has been initiated at site? If yes, details thereof
And if No, Date up to which construction has not started.</td><td colspan="4">block.E- Slab up to GF level, block.C- Footing work in progress.</td></tr>
<tr><td>7.</td><td>Details of Undertaking stating current status of construction at site.</td><td colspan="4">Attached as Annexure-15_Undertaking with the application. Construction is started For block.A – 2nd basement comp., block.D- 1st basement comp., block.E- Slab up to GF level, block.C- Footing work in progress</td></tr>
<tr><td>8.</td><td>Whether NA permissions of all survey Nos have been obtained, details there of</td><td colspan="4">Attached in Annexure-11_Land Documents</td></tr>
<tr><td>9.</td><td>Site coordinates</td><td colspan="4">(with all coordinates of the polygon)<table><tr><td>A</td><td>23° 6'4.32"N</td><td>72°31'30.69"E</td></tr><tr><td>B</td><td>23° 6'2.92"N</td><td>72°31'32.70"E</td></tr><tr><td>C</td><td>23° 6'7.28"N</td><td>72°31'33.33"E</td></tr><tr><td>D</td><td>23° 6'5.88"N</td><td>72°31'35.27"E</td></tr></table></td></tr>
<tr><td>10.</td><td>Project Details</td><td colspan="4">• Land / Plot Area (m2): 8320.00
• FSI area (m2):26439.69
• Total BUA (m2):52584.78<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area(m2)</td><td>26439.69</td><td>26439.69</td></tr><tr><td>Ground Coverage(m2)</td><td>-</td><td>1983.13</td></tr><tr><td>Common Plot Area(m2)</td><td>832.00</td><td>927.06</td></tr><tr><td>Max. building height(m)</td><td>70.00 (from GF)</td><td>44.45 m (from GF)</td></tr></table></td></tr>
<tr><td>11.</td><td>In case of Expansion project/ Amendment project</td><td colspan="2">Reason of the Expansion</td><td colspan="2">Plan change</td></tr>
<tr><td></td><td></td><td colspan="2">Details of earlier EC obtained for the project</td><td colspan="2">SEIAA/GUJ/EC/8(a)/751/2022
Dated: 10/03/2022</td></tr>
<tr><td></td><td></td><td colspan="2">Compliance of the earlier EC</td><td colspan="2">Submitted /Not submitted</td></tr>
<tr><td></td><td></td><td colspan="2" rowspan="2">Status of construction completed on site</td><td>Built up area constructed:</td><td>00</td></tr>
<tr><td></td><td></td><td>No. of blocks and floors constructed:</td><td>00</td></tr>
<tr><td></td><td></td><td colspan="2" rowspan="2">If earlier EC not applicable/not obtained for the project then details of Development Permission</td><td>Name of the Authority</td><td>--</td></tr>
<tr><td></td><td></td><td>Date of order</td><td>--</td></tr>
</table>

		(Rajachithhi) obtained from other Local Authority	Builtup area granted	--
		Documentary proof submitted for supporting the expansion of the project.	Availability of Additional FSI, TDR, Revision in GDCR etc	

12. In case of Expansion/ Amendment

Tabular form stating the details granted in Earlier EC and Amendment /Expansion required.

Condition No.	Details as per EC Granted	Details require by the PP
Built-up area	48074.14 sqm	52584.78 sqm
FSI area	22460.26 sqm	26439.69 sqm

13. Building Details

No. of Buildings:	6
No. of Blocks:	6
Scope of buildings/blocks:	Cellar 2 + G.F + 13th floor
No. & size of Residential Units:	281
No. & type of Commercial Units:	12
Details of amenities if any:	--

14. No. of expected residents / users/

1124 residential, 51 commercial

15. Water & waste water details during construction phase and operation phase

CONSTRUCTION PHASE	
Water requirement (KL/day):	9.0
Source of water/Supply from-	Water supply from Tanker
Waste water generation quantity (KL/day):	2.0
Mode of disposal:	Soak Pit via Septic Tank
Details of reuse of water, if any:	--
OPERATION PHASE	
Total water Consumption (KL/day):	160.8
Fresh water requirement (KL/day):	103.2
Recycle of treated w/w, KL	57.6
A. Gardening area, m2	6.7
B. Flushing	50.8
C. Sprinklers (Nos in premises, with pipeline details)	---
D. Storage tank details for storage of treated domestic waste water in premises	50 KL
Source of water:	Water supply from AMC
Total Waste water generation	130.9

		quantity (KL/day):	
		Treated Waste water to be reused	57.6
		Quantity and type (treated/untreated) of water to be discharged:	73.4 KLD, Treated water will be discharged through drainage line of AMC
		In case of STP provision, capacity of STP:	Yes, 145 KLD
		STP Technology:	ASP
		Provision of dual plumbing system (Yes/No):	Yes

16.	Status of water supply and drainage line and its permission/ acknowledgement details	Project belongs to AMC and they will provide water supply line and drainage line after issue of building use permission.

17. Solid waste Management

Construction Phase:

	Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
Top Soil	3328	3328	Will be reused for gardening &greenbelt development
Other excavated earth	60736	60736	Will be use within premises as building material & back filling/Remaining will be send to other project sites for filling of low-lying areas
Construction debris	450 Tone	300 Tone	Will be reused within premises and balance quantity will be disposed as per C&D waste rules 2016.
Steel scrap	whatsoever	--	Will be sold to local scrap vendors
Discarded packing materials	whatsoever	--	Will be sold to local recyclers
Others	NA	NA	

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	230	Blue Bins	To waste collectors

		Wet waste	345	Green Bins	OWC
		STP Sludge	14.5	Dry Manure	used in site premises and remaining Sold to nursery / farmer
		Details of segregation if to be done:		separate bins will be provided to collect dry and wet waste	
		Capacity and no. of community bins to be placed within premises:		38 Nos. of bin of 80 litre capacity	
		Landfill site where waste will be ultimately disposed by local authority:		at nearest waste collection point of AMC	

18. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Block A	2B+GF+13	360.69	1	2.00	2(1 FIRE)	1	19.95 < 25
Block B	2B+GF+13	360.69	1	2.00	2(1 FIRE)	1	14.27 < 25
Block C	2B+GF+13	360.27	1	2.00	2(1 FIRE)	1	19.95 < 25
Block D	2B+GF+13	180.40	1	2.00	2(1 FIRE)	1	19.95 < 25
Block E	2B+GF+13	360.81	1	2.00	2(1 FIRE)	1	14.27 < 25
Block F	2B+GF+13	360.27	1	2.00	2(1 FIRE)	1	19.95 < 25

19.	Parking Details	As below:	Sq. mtrs.	CPS
	Total parking area requirement for the project as per GDCR:		5442.35	--
	Parking area requirement for residential units as per GDCR:		5184.99	--
	Parking area requirement for commercial units as per GDCR:		257.36	--
	Parking area requirement as per GDCR for (specify in case of any other):		--	--
	Total number of CPS requirement for the project as per NBC		--	291
	Total parking area provided (m^2) & No. of CPS:		16401.24	518
	Parking area provided in basement 1 (m^2) & No. of CPS:		6603.74	206
	Parking area provided in basement 2 (m^2) & No. of CPS:		8738.61	273

	Parking area provided in hollow plinth (m^2) & No. of CPS:			695.03	25
	Parking area provided as open surface (m^2) & No. of CPS:			83.86	4
	Number of Visitor parking provided in the project in HP (No. of CPS):			280.00	10
20.	Traffic Management	Width of adjacent public roads:	18.0 m		
		Number of Entry & Exit provided on approach road/s:	2		
		Number of Entry and Exit ramp to the basement:	2		
		Width of Entry & Exit provided on approach road/s:	6.0 meter		
		Width of the Roads:	Permissible	Proposed	
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6.0	6.0	
		Width of all internal roads:	6.0	6.0	
21.	Details of Green Building measures proposed.	Provision to install aerated coke in wash basins, kitchen, low flush water closet in toilet and pressure reducing valves in water pipelines, rain water harvesting and ground water recharge, maximum utilization of natural lights, LED lightings			
22.	Energy Requirement, Source and Conservation	Power supply:	UGVCL		
		Maximum demand: Connected load: Source:	1850 KW 1850 KW UGVCL		
		Energy saving measures:	Use of transformers and motors having minimum efficiency of 85%, use of LED lights in the common areas, use of light colors to reduce the light absorption and minimize the cooling requirement, solar street lights etc.		
		Power Generation:	Required	Provided	
		Solar power generation (Capacity in KW):	92.5 KW	96.0 KW	
		No. of solar panels	--	50	
		Capacity of each Solar cell	500 W	540 W	
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting	86 kwh/day	
			Total Solar Power Utilization for Water Pump	33 kwh/day	

			Total Solar Power Utilization for Electric Vehicles Charging Station	14 kwh/day
			Other usage	--
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	--	1 Nos. of 125 KVA 15 liter/Hour (HSD)
23.	Electric vehicle charging provision	Total no. of EV Charging points provided	**94**	
		Parking area designated for EV Charging parking	**Electric car charging stations will be provided for 294 of the required CPS**	
		Total proposed EV charging capacity	42 slow EV Charging points 52 Fast EV Charging points	
		Total power requirement to charge Electric Vehicle in kWh/day	450kWh/day	
		Availability of power	*Out of 450 kWh/day of power requirement for Charging of Electric Vehicles, 62 kWh/day will be utilized from solar power generation and remaining 388 kWh/day will be utilized from Main Power Supply*	
24.	Fire and Life Safety Measures	**During the construction phase**:		
		Fall Protection	Guardrails, fall arrest systems, safety nets and covers will be used to prevent deaths and injuries from falls. Use safety net systems or personal fall arrest systems (body harnesses).	
		Foot Protection	If machines or operations present the potential for foot injury, the Contractor must provide foot protection, which is of safe design and construction for the work to be performed. Workers and visitors should not be allowed on a construction site without safety boots.	
		Head Protection	If head hazards remain after all steps have been taken to control them (safety nets for work at heights, proper housekeeping), the Contractor must provide employees with appropriate head	

			protection.
		Noise Protection	If head hazards remain after all steps have been taken to control them (safety nets for work at heights, proper housekeeping), the Contractor must provide employees with appropriate head protection.
		Eye Protection	When machines or operations present potential eye injury from physical or chemical elements, the Contractor must select, provide, maintain and required affected employees to use appropriate eye protection. Eye protection (safety glasses and goggles, face shields and welding helmets) must be adequate and reasonably comfortable.
		Ladders and Stairs	• The Contractor is required to inspect and maintain all ladders and temporary/portable steps to ensure that they are in good working condition. • Portable ladders used for access to an upper landing surface must extend a minimum of 1.8 m above the landing surface, or where not practical, be provided with grab rails and be secured against movement while in use. • All ladders must be used only on stable and level surfaces unless secured to prevent accidental movement. Ladders must not be used on slippery surfaces unless secured or provided with slip resistant feet to prevent accidental movement. • The Contractor should provide a ladder (or stairway) at all work points of access where there is a break in elevation of 0.5 m or more. • When there is only one point of access between levels, it must be kept clear to permit free passage by workers. If free passage becomes restricted, a second point of access must be provided and used. At all times, at least one point of access must be kept clear.

			• All required stairway and ladder fall protection systems must be provided and installed before employees begin work that requires them to use stairways or ladders.
		Scaffolds	• Access to Scaffolds - Access to and between scaffold platforms more than 0.6 m above or below the point of access will be made by portable/attachable ladders or ramps. • Employees must never use makeshift devices, such as boxes and barrels, to increase the scaffold platform working level height.
		Access to Scaffolds	• Access to and between scaffold platforms more than 0.6 m above or below the point of access will be made by portable/attachable ladders or ramps.
		Trenching and Excavation	• The area around the trench/excavation would be kept clear of surface encumbrances. • Water should not be allowed to accumulate in the excavation. • Adjacent structures would be shored in accordance with the design documents to prevent collapse. • Guardrails or some other means of protecting people from falling into the trench/excavation would be present. • The trench or excavation would be shored or sloped to prevent cave-ins.
		Electrical Safety	• If work has to be done near an overhead power line, the line must be de-energized and grounded before work is started. • A licensed electrician would have completed all temporary wiring and electrical installations required for construction activities. • Fuses and circuit breakers would be used to protect motherboards, conductors and equipment. • Extension cords for equipment or as

			part of a temporary wiring system will not be damaged or compromised in any way and insulation must be of the highest grade. • Anytime electrical equipment is deactivated for repair, or circuits are shut off, the equipment will be locked out and tagged at the point where it can be energized. • Temporary lights may not be suspended by their cords. • The Contractor would provide the necessary safety equipment, supplies and monitoring equipment to their personnel.
		Cranes	• A competent person has been designated to supervise activities that require the use of cranes. • Cranes would not be operated near any power lines. • All picks would be carefully planned to ensure that the crane adequately hoist the load. • The hoisting signals would be posted on the exterior of the crane.
		Occupational Noise Exposure	• The Contractor should implement engineering controls to reduce noise levels. • The Contractor should provide hearing protection to employees that are exposed to noise levels above the permissible limit.
		Welding and Cutting	• The Contractor's employees would be trained in hot work procedures. • There should be adequate ventilation to reduce the build-up of metal fume. • The hot work operators would use proper personal protective equipment (i.e., welding helmet, burning goggles, face shield, welding gloves, and apron). • There would be a fire extinguisher present at all welding and burning activities.

			• Extinguishers would also be placed at locations where slag and sparks may fall. • Oxygen and flammable gas bottles are separated by at least 7 m when not in use. • The Contractor would control the release of gases, vapors, fumes, dusts, and mists with engineering controls (e.g., adequate ventilation).	
		Others	--	
		During the operation phase"	Fire safety measures	fire extinguishers at each floor, underground fire water storage tank (2 no. of 160 KL), terrace water tank (20 KL on each building), smoke detectors, fire sprinklers, basement sprinkler, fire mist system
			Capacity of Underground fire water tank	160 KL
			Capacity of Overhead fire water tank	20 KL on each building
		Status of fire opinion obtained for the project, submit details	Obtained, Attached as Annexure-9_Fire Opinion	
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Thaltej Fire Station at around 5.8 km away from the project site. It takes around 8-10 minutes to reach the site.	
25.	Rain Water Harvesting (RWH)	Level of the Ground water table:	>10 meter	
		RWH/Percolation well details:	Required	Provided
		No. of RWH tank(s)	--	1
		Dimensions of RWH tank(s) :	--	1 Nos. of 4.0 x 4.5 x 4.0 m
		No. of percolations wells :	--	3 Nos. of percolating wells, Depth > 10 m
		Depth of percolations wells :	--	3 Nos. of percolating wells, Depth > 10 m
		Details on Pre-treatment facilities	--	Catch pit with filtration media

26.	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2) :	--	416
		Area covered by shrubs and bushes (m^2):	--	--
		Lawn covered area (m^2):	--	927.06
		Total Green Area (m^2):	--	1343.06
		Green Area % of plot area:	10%	16.14 %
		No. of trees and species to be planted:	208	208
27.	Basic amenities to be provided to construction workers.	Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc.		
28.		Air	Dust suppression measures are undertaken such as regular sprinkling of water around vulnerable areas of the construction site by suitable methods to control fugitive dust during earthwork and construction material handling/ over hauling. Properly tuned construction machinery & vehicles in good working condition with low noise & emission are used and engines are turned off when not in use.	
		Noise Control	Protective gears such as ear mufflers etc. are provided to construction personnel exposed to high noise levels.	
		Water	Toilet and drinking water facilities for construction workers are provided by the contractor at the construction site to avoid unhygienic condition at site.	
		Solid and hazardous waste management	Waste construction materials are recycled and excess construction debris are disposed at designated places in tune with the local norms.	
		Environment monitoring		
		Rain water	Adequate rainwater harvesting will be provided	
		Green belt	208 nos. Trees and Lawn Area Development	
		Solar Energy	Roof Top Solar – 96 KW; Terrace Space require – 960Sq.m.	
		Fire & Safety	Adequate fire protection facilities will be installed including fire detectors, fire alarm and firefighting system as per National Building Code. Adequate safety measures complying to the occupational safety manuals to prevent accidents/hazards to the maintenance workers	
		CER	same as per old format	
		Amenities/ Occupational	Drinking water and sanitation facilities for worker. PPE's will be provided to workers during Construction Phase.	

		health center.	

29. Budgetery provision of Environment Management plan

Sr. No	Head	Basis for cost estimates	Total Capital cost (Rs. In lacs) (Construction and operation phase)	Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)	Implementation Plan For Capital Expenditure
1.	Air	Dust Mitigation Measures like…Details ……	50,000	--	
		Stack and DG room, its capacity	1,25,000	60,000	
2	Noise Control	Noise control measures like provision of…..	50,000	25,000	
3.	Water	145 KLD – ASP Type STP, Area Require – 97 Sq. m.,	14,50,000	2,90,000	
4.	Solid and hazardous waste management	350 Kg/Day – Automatic OWC Area require – 6 Sq.m.	3,50,000	60,000	
5.	Environment monitoring	The recurring cost would be incurred on hiring of consult- ants and payment of various statutory fees to regulatory agencies.	--	75,000	
6.	Rain water	Collection system, treatment and recharge well - 3 nos. P. W.C.	4,50,000	25,000	
7.	Green belt	208 nos. Trees and Lawn Area Development	6,23,342	1,70,000	
8.	Solar Energy	Roof Top Solar – 96 KW; Terrace Space require	33,60,000	2,25,000	

			– 960 Sq.m.			
	9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from SMC and Fire and Safety Equipment and PPE's will be provided to workers during Construction Phase.	30,50,000	50,000	
	10.	CER	Rain water recharge, Solid waste management, Solar street light, Drinking water facilities in public place, Const of toilets & upgrade medical facilities in three years @ Rs 60 Lakhs in 1st year, Rs 65 Lakhs in 2nd year, Rs 65 Lakhs in 3rd year and total 190 Lakhs Rs.	1,90,00,000	--	
	11.	Amenities/ Occupational health center	Providing of amenities facility for worker	12,00,000	--	
	Total			**2,97,08,342**	**9,80,000**	

- Committee deliberated on the following:

  - ✓ PP were asked to submit Structure Stability Certificate, Increase Solar capacity, increase in Power consumption and to change EMP accordingly.
  - ✓ PP replied vide email dated 27-02-2023 and submitted the Structure stability certificate and Revised SEAC format.

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction

projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.
2. The project proponent shall construct 6 nos of buildings [Cellar 2 + G.F + 13th floor].
3. The height of the building shall not be higher than 44.45 mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 6 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 23 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 9.0 KLD and it shall be met through Tanker. No ground water shall be tapped during the construction phase.
9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 160.8KLD, out of which

fresh water requirement of 103.2KLD shall be met through AMCand the remaining 57.6KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.

15. Sewage generation during operation phase shall not exceed 130.9KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of AMC.
17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 3 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff, pre-treatment must be done to remove suspended matter.

(iii) AIR:

21. A D. G. set (125 KVA) proposed as backup power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(iv) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the other garbage shall be disposed off properly as per the provisions made by the AMC.

(v) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like fire extinguishers at each floor, underground fire water storage tank (2 no. of 160 KL), terrace water tank (20 KL on each building), smoke detectors, fire sprinklers, basement sprinkler, fire mist system, terrace water tanks of 20 KL capacity on each building , underground water tank of 160 KL, etcshall be provided.
27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Block A	2B+GF+13	360.69	1	2.00		2(1 FIRE)	19.95 < 25
Block B	2B+GF+13	360.69	1	2.00		2(1 FIRE)	14.27 < 25
Block C	2B+GF+13	360.27	1	2.00		2(1 FIRE)	19.95 < 25
Block D	2B+GF+13	180.40	1	2.00		2(1 FIRE)	19.95 < 25
Block E	2B+GF+13	360.81	1	2.00		2(1 FIRE)	14.27 < 25
Block F	2B+GF+13	360.27	1	2.00		2(1 FIRE)	19.95 < 25

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.
29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.

31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.
32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vi) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 16401.24m^2 (518CPS) [15342.35 m^2 in Basement + 695.03m^2 in Hollow Plinth + 83.86m^2 in open area] shall be provided as proposed.

(vii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors &pumps, water efficient taps, solar lights in open & solar street light, 96 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(viii) GREEN BELT:

35. Green belt area of 1343.06m2 comprising of 416m2 tree covered area with 208trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(ix) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 297.08 Lakhs and Recurring cost of Rs 9.80 Lakhs in Construction Phase& Operation Phase.

(x) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 190 Lakhs as committed before SEAC for activities like Rain water recharge, Solid waste management, Solar street light, Drinking water facilities in public place, Const of toilets & upgrade medical facilities in three years @ Rs 60 Lakhs in 1st year, Rs 65 Lakhs in 2nd year, Rs 65 Lakhs in 3rd year and total 190 Lakhs Rs..
38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.
39. The said activities shall be completed within 3 years from the commencement of the project.
40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and

district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.

2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.
6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.
7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

5	**SIA/GJ/INFRA2/412061/2022**	**Shubham Anthem** Survey Number 38, O.P. Number 35, F.P. Number: 35, D. T.P. S. Number: 03, Shela, Sanand, Ahmedabad	**EC-New**

- This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/INFRA2/412061/2022 dated: 17.01.2023 .
- This is a proposed Residential cum commercial building construction project having net plot area of 5402.00 m2, FSI area of 22,566.02 m2 and the proposed built-up area of the project is 37,838.06 m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Details of the Application:

1.1. Type of application:	EC-New
1.2. Proposal no.	SIA/GJ/INFRA2/412061/2022
1.3. Category of Project :	8(a)
1.4. Date of applicationaccepted by SEAC	17.01.2023
1.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC, Firefighting opinion etc.
1.6. TOR No. &Date :	Not applicable as project is categorized as B2
1.7. Technical expert / Environmental Consultant Name :	Hitendra Kela
1.8. SEAC Meeting No. and Date:	SEAC Meeting No : 587 Date: 27.02.2023

2. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/412061/2022
2.	Name of the project	Proposed Residential cum commercial project “Shubham Anthem”
3.	Address of the Site	Survey Number 38, O.P. Number 35, F.P. Number: 35, D. T.P. S. Number: 03, Shela, Sanand, Ahmedabad
4.	Name of Developer	M/s. Shubham Anthem
5.	Estimated Project Cost (Rs. In Crores)	72.0 Cr
6.	Whether construction	

<table>
<tr><td></td><td>work has been initiated at site? If yes, details thereof
And if No, Date up to which construction has not started.</td><td colspan="3">No</td></tr>
<tr><td>7.</td><td>Details of Undertaking stating current status of construction at site.</td><td colspan="3">No construction work is started Undertaking submitted</td></tr>
<tr><td>8.</td><td>Whether NA permissions of all survey Nos have been obtained, details there of</td><td colspan="3">Yes, Submitted along with application</td></tr>
<tr><td>9.</td><td>Site coordinates</td><td colspan="3">(with all coordinates of the polygon)

<table><tr><td>A</td><td>23° 00'21.18"N</td><td>72°26'48.06"E</td></tr><tr><td>B</td><td>23° 00'21.09"N</td><td>72°26'50.13"E</td></tr><tr><td>C</td><td>23° 00'18.31"N</td><td>72°26'50.04"E</td></tr><tr><td>D</td><td>23° 00'18.30"N</td><td>72°26'48.00"E</td></tr></table></td></tr>
<tr><td>10.</td><td>Project Details</td><td colspan="3">• Land / Plot Area (m^2): 5402.00
• FSI area (m^2):22,566.02 (16162.28 + 7313.93 TDR)
• Total BUA (m^2):37,838.06
<table><tr><td></td><td>Permissible</td><td>Proposed</td></tr><tr><td>FSI Area(m^2)</td><td>16162.28</td><td>22566.02</td></tr><tr><td>Ground Coverage(m^2)</td><td>-</td><td>2309.26</td></tr><tr><td>Common Plot Area(m^2)</td><td>540.20</td><td>552.37</td></tr><tr><td>Max. building height(m)</td><td>45</td><td>44.96</td></tr></table></td></tr>
<tr><td>11.</td><td>Building Details</td><td>No. of Buildings:</td><td colspan="2">2</td></tr>
<tr><td></td><td></td><td>No. of Blocks:</td><td colspan="2">3</td></tr>
<tr><td></td><td></td><td>Scope of buildings/blocks:</td><td colspan="2">Height: 44.96 m
(2 Level Basement + Ground Floor/Hollow plinth + 14floors)</td></tr>
</table>

		No. & size of Residential Units:	Total 162 units [208.39 Meter (4 BHK) -50 units and 89.79 Meter (3 BHK) -112 units]
		No. & type of Commercial Units:	21 shops
		Details of amenities if any:	Society offices
12.	No. of expected residents / users/	Residents:1134 Commercial: 42 Visitors:300	
13.	Water & waste water details during construction phase and operation phase	**CONSTRUCTION PHASE**	
		Water requirement (KL/day):	17.5
		Source of water/Supply from-	Water supply from Tankers
		Waste water generation quantity (KL/day):	3.6
		Mode of disposal:	Disposal into underground drainage of Soak Pits
		Details of reuse of water, if any:	No
		OPERATION PHASE	
		Total water Consumption (KL/day):	178.97
		Fresh water requirement (KL/day):	121.41
		Recycle of treated w/w, KL	57.56
		A. Gardening area, m2	552.37
		B. Flushing KL/day	55.08
		C. Sprinklers (Nos in premises, with pipeline details)	265 m pipeline provided with Two Num Automatic 360 ° Rotating Adjustable Round 3 Arm Lawn Water Sprinkler for Watering Garden and 15 tap provided f trees

			D.Storage tank details for storage of treated domestic waste water in premises		30 KL treated wastewater storage underground tank and 15KL (3 Block X 5KL) on terracetank for treated wastewater	
			Source of water:		AUDA	
			Total Waste water generation quantity (KL/day):		141.19	
			Treated Waste water to be reused KL/day		57.56	
			Quantity and type (treated/untreated) of water to be discharged:		83.63 Kl/day, Treated water will be discharged through drainage line of AUDA.	
			In case of STP provision, capacity of STP:		Yes, 175KLD	
			STP Technology:		MBBR	
			Provision of dual plumbing system (Yes/No):		Yes	
14.	Status of water supply and drainage line and its permission/ acknowledgement details	Available at 500m from the site				
15.	Solid waste Management	**Construction Phase**:				
				Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
			Top Soil	350	350	Will be used for greenbelt development.
			Other excavated earth	34650	12250 m3 will be used for back filling	Remaining will be send to their other project site for filling up of the low lying

					areas.
		Construction debris	350	50 m3 will be used for development of internal road and back filling.	Balance debris will be handed over to AUDA (As per C & D Rule)
		Steel scrap	50	0	Sold to vendors
		Discarded packing materials	20	0	Sold to vendors
		Others	10	0	Sold to vendors
		Operation Phase:			
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry waste	242.16	White bins	Sold to vendors
		Wet waste	363.24	Green Bins	OWC
		STP Sludge	50	Green Bins	OWC
		Details of segregation if to be done:		Yes	
		Capacity and no. of community bins to be placed within premises:		30Kg/ bins and 30 Number	
		Landfill site where waste will be ultimately disposed by local authority:		AUDA	

16. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A	G/HP + 14	981.55	2	2.06, 1.52	4	1	23
B	G/HP + 14	481.89	1	2.06	2	1	20
C	G/HP + 14	481.89	1	2.06	2	1	20

17.	Parking Details	As below:	Sq. mtrs.	CPS
	Total parking area requirement for the project as per GDCR:		4883.04	-
	Parking area requirement for residential units as per GDCR:		4266.65	-
	Parking area requirement for commercial units as per GDCR:		616.39	-
	Parking area requirement as per GDCR for (specify in case of any other):		-	-
	Total number of CPS requirement for the project as per NBC		-	183
	Total parking area provided (m^2) & No. of CPS:		9468.37	301
	Parking area provided in basement (m^2) & No. of CPS:		8443.92	263
	Parking area provided in hollow plinth (m^2) & No. of CPS:		724.45	25
	Parking area provided as open surface (m^2) & No. of CPS:		300	13
	Number of Visitor parking provided in the project (No. of CPS):		-	31

18.	Traffic Management	Width of adjacent public roads:	30 m	
		Number of Entry & Exit provided on approach road/s:	Two Entry and Two Exit	
		Number of Entry and Exit ramp tothe basement:	One Entry and one Exit	
		Width of Entry & Exit provided on approach road/s:	6.5 m	
		Width of the	Permissible	Proposed

		Roads:		
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6.0	6.0
		Width of all internal roads:	6.0	6.0
19.	Details of Green Building measures proposed.	Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & landscape areas – 10 solar street lights, 48 KW roof top solar Panel, 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 2 nos. of percolating wells etc.		
20.	Energy Requirement, Source and Conservation	Power supply:	UGVCL	
		Maximum demand: Connected load: Source:	880 KW 920 KW UGVCL	
		Energy saving measures:	Use of LED lighting fixtures and low voltage lighting	
		Power Generation:	Required	Provided
		Solar power generation (Capacity in KW):	44 KW (5% of connected load)	48 KW
		No. of solar panels		89
		Capacity of each Solar cell	500 W	540W
		Total Solar Power Utilization 10 Solar lighting in Open and Landscape Areas – 20 W Each	Total Solar Power Utilization for Indoor and Outdoor Lighting	10 Solar lighting in Open and Landscape Areas – 20 W Each Total 200W

			Total Solar Power Utilization for Water Pump	10KW solar power Utilization for Water Pump
			Total Solar Power Utilization for Electric Vehicles Charging points	38 KW power Utilization for Electric Vehicles Charging points
			Other usage	No
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	-	1 X 125 HSD, 25 l/h
21.	Electric vehicle charging provision	Total no. of EV Charging points provided	100 EVCharging points provided	
		Parking area designated for EV Charging parking	100 individual EV charging points provided in Basement and HP area	
		Total proposed EV charging capacity	We will provide additional power load equivalent to the power required for all charging points to be operated simultaneously with factor of 1.25	
		Total power requirement to charge Electric Vehicle in kWh/day	Maximum 500kWh/day	
		Availability of power	Out of 500KWh/day of power requirement for Charging of Electric Vehicles, 304kWh/day will be utilized from solar power generation and remaining 196 kWh/day will be utilized from UGVCL power	
22.	Fire and Life Safety Measures	**During the construction phase**:		
		Fall Protection	The Contractor is required to provide fall protection to employees who are working at heights equal to or greater than 1.8 m. Fall protection can be in the form of perimeter protection such as guardrails and toe rails, personal protective equipment (PPE), a safety monitoring system, or a fall protection plan.	

				Activities that require personal fall protection systems include steel erection bolting, riveting, fitting-up and plumbing-up, work over water and some deep excavation work. On buildings or structures not adaptable to temporary floors, and where scaffolds are not used, safety nets will be installed and maintained whenever the potential fall distance exceeds two storeys The PPE standard should cover occupational foot, head, hearing, and eye protection
			Foot Protection	If machines or operations present the potential for foot injury, the Contractor must provide foot protection, which is of safe design and construction for the work to be performed. Workers and visitors should not be allowed on a construction site without safety boots
			Head Protection	If head hazards remain after all steps have been taken to control them (safety nets for work at heights, proper housekeeping), the Contractor must provide employees with appropriate head protection
			Noise Protection	Workers should be wearing hearing protection devices (ear plugs, ear muffs, canal caps) that are in good condition whenever they are involved in noisy activities
			Eye Protection	When machines or operations present potential eye injury from physical or chemical elements, the Contractor must select, provide, maintain and required affected employees to use appropriate eye protection. Eye protection (safety glasses and goggles, face shields and welding helmets) must be adequate and reasonably comfortable To the greatest extent possible, working surfaces must be kept dry to prevent slips and falls and to reduce the chance of nuisance odors from pooled water All equipment and materials should be stored in designated storage areas that are labeled as such
			Ladders and Stairs	The Contractor is required to inspect and maintain all ladders and temporary/portable steps to ensure that they are in good working condition Portable ladders used for access to an upper landing surface must extend a minimum of 1.8 m above the landing surface, or where not practical, be provided with grab rails and be secured against movement while in use All ladders must be used only on stable and level surfaces unless secured to prevent accidental movement. Ladders must not be used on slippery surfaces unless secured or provided with slip resistant feet to prevent accidental movement The Contractor should provide a ladder (or stairway) at all work points of access where there is a break in elevation of 0.5 m or more When there is only one point of access between levels, it must be kept clear to permit free passage by workers. If free passage becomes restricted, a second point of access must be provided and used. At all times, at least one point of access must be kept clear All required stairway and ladder fall protection systems must be provided and installed before employees begin

				work that requires them to use stairways or ladders
			Scaffolds	Access to Scaffolds - access to and between scaffold platforms more than 0.6 m above or below the point of access will be made by portable/attachable ladders or ramps Employees must never use make shift devices, such as boxes and barrels, to increase the scaffold platform working level height
			Access to Scaffolds	The area around the trench/excavation would be kept clear of surface encumbrances. Water should not be allowed to accumulate in the excavation Adjacent structures would be shored in accordance with the design documents to prevent collapse Guardrails or some other means of protecting people from falling into the trench/excavation would be present The trench or excavation would be shored or sloped to prevent cave-ins
			Trenching and Excavation	The Contractor is required to inspect and maintain all ladders and temporary/portable steps to ensure that they are in good working condition Portable ladders used for access to an upper landing surface must extend a minimum of 1.8 m above the landing surface, or where not practical, be provided with grab rails and be secured against movement while in use All ladders must be used only on stable and level surfaces unless secured to prevent accidental movement. Ladders must not be used on slippery surfaces unless secured or provided with slip resistant feet to prevent accidental movement The Contractor should provide a ladder (or stairway) at all work points of access where there is a break in elevation of 0.5 m or more When there is only one point of access between levels, it must be kept clear to permit free passage by workers. If free passage becomes restricted, a second point of access must be provided and used. At all times, at least one point of access must be kept clear All required stairway and ladder fall protection systems must be provided and installed before employees begin work that requires them to use stairways or ladders
			Electrical Safety	Use electrical gloves and footwear while handling electrical materials as they provide basic safety. Take extra precautions like using a face shield, fire-resistant helmet and protective eyewear and earmuffs while working with wiring or if you are in close contact with electrical equipment.
			Cranes	A competent person has been designated to supervise activities that require the use of cranes Cranes would not be operated near any power lines All picks would be carefully planned to ensure that the crane adequately hoist the load The hoisting signals would be posted on the exterior of the crane
			Occupational Noise Exposure	The Contractor should implement engineering controls to reduce noise levels The Contractor should provide hearing protection to employees that are exposed to noise levels above the permissible limit
			Welding and Cutting	The Contractor's employees would be trained in hot work procedures. There should be adequate ventilation to reduce the buildup of metal fume The hot work operators would use proper personal protective equipment (i.e., welding helmet, burning goggles, face shield, welding gloves, and apron) There would be a

			fire extinguisher present at all welding and burning activities Extinguishers would also be placed at locations where slag and sparks may fall. Oxygen and flammable gas bottles are separated by at least 7 m when not in use The Contractor would control the release of gases, vapors, fumes, dusts, and mists with engineering controls (e.g., adequate ventilation)		
		Others	No		
		During the operation phase"	Fire safety measures	Fire extinguishers, hose reel, wet riser, manually operated electric fire alarm system, automatic sprinkler system in basement, Shops and HP,	
			Capacity of Underground fire water tank	150 KL	
			Capacity of Overhead fire water tank	Toral 60KL	
		Status of fire opinion obtained for the project, submit details	Yes, Fire opinion submitted along with application		
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Bopal Fire Station is ~ 2.6 km in NE direction and The Fire Tender will take @ 15 minutes to reach the Project site during emergency		
23.	Rain Water Harvesting (RWH)	Level of the Ground water table:	30 m		
		RWH/Percolation well details:	Required		Provided
		No. of RWH tank(s)	02		02
		Dimensions of RWH tank(s) :	-		2.5mx2.0mx3.0m
		No. of percolations wells :	02		02

		Depth of percolations wells :	-	30 m
		Details on Pre-treatment facilities	oil and grease removal and filter	oil and grease removal and filter
24.	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2) :	-	300
		Area covered by shrubs and bushes (m^2):	-	52.37
		Lawn covered area (m^2):	-	200
		Total Green Area (m^2):	540.2	552.37
		Green Area % of plot area:	10	10
		No. of trees and species to be planted:	136	136 number of trees and Limbdo, KaadoSiris, Jambu, Asopalav, Saptaparni,Borsali and Gulmohar
25.	Basic amenities to be provided to construction workers.	Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, welfare facilities as per the Gujarat Building & Other Construction Workers Rules. Appoint approved contractor for Registration of Workers • Insurance of Workers • Periodically Health Check up • Fix hours for normal working day • Maintenance of registers and records • Drinking water facility would be provided. Toilets and urinals would be provided.		

26.	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**	
		Air	During Construction Phase: Dust Mitigation Measures (Dust suppression by spraying of water and Peripheral barricading of 3m height) During Operation Phase: DG sets Stack and DG room	
		Noise Control	During Construction phase: Acoustic mufflers / enclosures to be provided in large engines/machineries Implement good working practices, ear plugs, ear muffs, canal caps During Operation Phase: Acoustic Enclosure will be provided around D.G. Set Proper Traffic Signage will be placed at several places within premises	
		Water	During Construction phase: Septic tank and soak pits will be provide During Operation Phase: 175 KLD – MBBR Type STP, Area Require – 90 Sq. m.,	
		Solid and hazardous waste management	During Construction phase: Solid and hazardous waste will be storage separately for temporary period. Waste will be handedover to Vendor/municipal solid waste collection team During Operation Phase: 500 Kg/day - OWC	
		Environment monitoring	During Construction phase: Ambient air and Noise will be monitoring at Six month interval for Three location or as per EC condition During Operation Phase: Ambient air and Noise will be monitoring at Six month interval for Three location or as per EC condition	
		Rain water	Collection system, treatment and recharge well - 2 nos. P. W.C.	

<table>
<tr><td>Green belt</td><td>136 nos. Trees and 252.37 Sq meter Lawn Area Development</td></tr>
<tr><td>Solar Energy</td><td>Roof Top Solar – 48 KW;
Terrace Space require – 500 Sq.m.</td></tr>
<tr><td>Fire & Safety</td><td>During Construction Phase: Safety Equipment and PPE's will be provided to workers during Construction Phase. Fall Protection, Safety Net , Ladders and Stairs Scaffolds, Trenching and Excavation Electrical Safety, Welding and Cutting
During Operation Phase: Provide Fire Fighting Systems as per Fire Opinion from AUDA and Fire and Safety</td></tr>
<tr><td>CER</td><td>
<table>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Activity</th><th colspan="3">Total (Rs. in Lacs)</th></tr>
<tr><th>1st Year</th><th>2nd year</th><th>3rd Year</th></tr>
<tr><td>1</td><td>Provide Fund for Green belt and tree plantation on AUDA Garden plot at Manipur and maintenance for next Five years (Rs. 5 Lac) (Minimum 1000 No of trees)</td><td>10.0</td><td>10.0</td><td>10.0</td></tr>
<tr><td>2</td><td>Beatification of Manipur Village Pond for
infrastructure facilities like deepening of pond and tree plantations, Solar Street lights and maintenance for next Five years (Rs. 5.0 Lac)</td><td>10</td><td>10</td><td>20.0</td></tr>
<tr><td>3</td><td>Provide Fund for OWC at Manipur, Mumatpura, Garodiya, Village maintenance for next four years (Rs. 8 Lac)</td><td>10</td><td>10</td><td>10</td></tr>
<tr><td>4</td><td>Tree Plantation (100 No) and Solar street light (25No) on adjoining road.</td><td>5.0</td><td>10.0</td><td>11</td></tr>
</table>
</td></tr>
<tr><td>Amenities/ Occupational health center.</td><td>Providing of amenities facility for worker (Sanitation, Drinking water etc)
Appoint approved contractor for Registration of Workers
• Insurance of Workers
• Periodically Health Check up
• Fix hours for normal working day
• Maintenance of registers and records
• Drinking water facility would be provided.
• Toilets and urinals would be provided.</td></tr>
</table>

27.	Budgetery provision of Environment Management plan	**Sr. No**	**Head**	**Basis for cost estimates**	**Total Capital cost (Rs. In lacs) (Construction and operation phase)**	**Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)**	**Implementation Plan For Capital Expenditure**
		1.	Air	Dust Mitigation Measures (Dust suppression by spraying of water and Peripheral barricading of 3m height)……	18.0	1.0	During Construction Phase
				Stack and DG room, 125 KVA	3.0	0.5	Before Operation Phase
		2	Noise Control	Acoustic mufflers / enclosures to be provided in large engines/machineries Implement good working practices	9.0	0.5	During Construction Phase
				Acoustic Enclosure will be provided around D.G. Set Proper Traffic Signage will be placed at several places within premises	3.0	0.5	Before Operation Phase
		3.	Water	175 KLD – MBBR Type STP, Area Require –90 Sq. m.,	30.0	3.0	Before Operation Phase
		4.	Solid and hazardous waste management	500 Kg/Day – Automatic OWC Area require – 17 Sq.m.	15.0	2.5	Before Operation Phase
		5.	Environment monitoring	The recurring cost would be incurred on hiring of consult- ants and payment of various statutory fees to regulatory agencies.	0	2.5	Construction and Operation Phase

			6.	Rain water	Collection system, treatment and recharge well - 02 nos. P. W.C.	2.0	0.5	Before Operation Phase
			7.	Green belt	136 nos. Trees and 252.37 Sq meter Lawn Area Development	3.0	1.0	Before Operation Phase
			8.	Solar Energy	Roof Top Solar – 48 KW; Terrace Space require 500Sq.m.	25.0	0.5	Before Operation Phase
			9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from AUDA and Fire and Safety	110.0	1.0	Before Operation Phase
					Safety Equipment and PPE's will be provided to workers during Construction Phase. Fall Protection, Safety Net , Ladders and Stairs Scaffolds, Trenching and Excavation Electrical Safety, Welding and Cutting	14.0	0.5	Construction phase
			10.	CER	Provide Fund for Green belt and tree plantation on AUDA Garden plot at Manipur and maintenance for next Five years (Rs. 5 Lac) (Minimum 1000 No of trees)	30.0	5.0	Within three Year
					Beatification of Manipur Village Pond for infrastructure facilities like deepening of pond and tree plantations, Solar Street lights and maintenance for next Five years (Rs. 5.0 Lac)	40.0	5.0	
					Provide Fund for OWC at Manipur, Mumatpura, Garodiya, Village maintenance for next four years (Rs. 8 Lac)	30.0	8.0	

				Tree Plantation (100 No) and Solar street light (25No) on adjoining road.	26.0	0.0	
		11.	Amenities/ Occupational health center	Providing of amenities facility for worker (Sanitation, Drinking water etc) Appoint approved contractor for Registration of Workers • Insurance of Workers • Periodically Health Check up • Fix hours for normal working day • Maintenance of registers and records • Drinking water facility would be provided. • Toilets and urinals would be provided.	8	0.5	During construction phase
		Total			366	32.5	

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.
2. The project proponent shall construct 2 nos of buildings [2 Level Basement + Ground Floor/Hollow plinth + 14floors].
3. The height of the building shall not be higher than 44.96mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 6 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 21 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 17.5 KLD and it shall be met through Tankers. No ground water shall be tapped during the construction phase.
9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 178.97 KLD, out of which

fresh water requirement of 121.41 KLD shall be met through AUDAand the remaining 57.56 KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.

15. Sewage generation during operation phase shall not exceed 141.19 KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of AUDA.
17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 02 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff, pre-treatment must be done to remove suspended matter.

(iv) AIR:

21. A D. G. set (125 KVA) proposed as backup power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(v) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the

other garbage shall be disposed off properly as per the provisions made by the AUDA.

(vi) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like Fire extinguishers, hose reel, wet riser, manually operated electric fire alarm system, automatic sprinkler system in basement, Shops and HP, terrace water tanks of total 60 KL capacity, underground water tank of 150 KL, etcshall be provided.
27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A	G/HP + 14	981.55	2	2.06, 1.52	4	1	23
B	G/HP + 14	481.89	1	2.06	2	1	20
C	G/HP + 14	481.89	1	2.06	2	1	20

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.
29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.
31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.
32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vii) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 9468.37 m^2 (301 CPS) [8443.92 m^2 in Basement + 724.45 m^2 in Hollow Plinth + 300 m^2 in open area] shall be provided as proposed.

(viii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & solar street light, 48 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low

voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(ix) GREEN BELT:

35. Green belt area of 552.37 m2 comprising of 300 m2 tree covered area with 136 trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(x) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 366Lakhs and Recurring cost of Rs 32.5Lakhs in Construction Phase& Operation Phase.

(xi) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 144 Lakhs as committed before SEAC for activities like Provide Fund for Green belt and tree plantation on AUDA Garden plot at Manipur and maintenance for next Five years (Rs. 5 Lac) (Minimum 1000 No of trees) Beatification of Manipur Village Pond for infrastructure facilities like deepening of pond and tree plantations, Solar Street lights and maintenance for next Five years (Rs. 5.0 Lac) Provide Fund for OWC at Manipur, Mumatpura, Garodiya, Village maintenance for next four years (Rs. 8 Lac) Tree Plantation (100 No) and Solar street light (25No) on adjoining road.
38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.
39. The said activities shall be completed within 3 years from the commencement of the project.
40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.
2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC,

GPCB and Nodal Department of the Government.

4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.
6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.
7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

6	**SIA/GJ/INFRA2/412117/2022**	**Swati Parkside-2 Survey No. 272/3, D.T.P.S. No. 87 (Sarkhej-Okaf-Fatehwadi), O.P. No. 48/3, F.P. No. 48/3, Moje: Sarkhej, Taluka: Vejalpur, District: Ahmedabad, State: Gujarat, Pin Code: 382210.**	**EC-Expansion**

- This office has received an application for Environment Clearance for expansion of the above project vide proposal no. SIA/GJ/INFRA2/412117/2022 dated: 17-01-2023.
- The project proponent has obtained Environmental Clearance obtained vide order SEIAA/GUJ/EC/8(a)/1278/2021 Dated- 02/07/2021.
- This is a proposed Residential cum commercial building construction project having net plot area of 8,135.00m2, FSI area of 32,535.36m2 and the proposed built-up area of the project is 57,862.42 m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.
- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Proposed Changes Due to Expansion:

Details	As per previous EC (Existing)	Proposed changes	Total
Water Requirement	360.62 KLD	- 150.12 KLD	210.5 KLD
Waste Water Generation	285.55 KLD	-121.05 KLD	164.5 KLD
STP Details	300 KLD	-115 KLD	185 KLD
Reuse details	Gardening – 4.1 Flushing – 102.08 Car washing – 7.7	Gardening – (+0.5) Flushing – (-38.92) Car washing – (+0.6)	Gardening – 4.6 Flushing – 63.16 Car washing – 8.3
Disposal Details	171.67 KLD, Treated water will be discharged through AMC drainage system	(-83.23) KLD, Treated water will be discharged through AMC drainage system	88.44 KLD, Treated water will be discharged through AMC drainage system
- Relevant Details to be changed as per project-			
-- Name of Project	Bliss Serene	Swati Parkside-2	Swati Parkside-2
-- Built up area	56,049.29 m^2	+1813.13	57,862.42 m^2
-- FSI area	32,452.85 m^2	+82.51	32,535.36 m^2
-- Common plot area	818.04 m^2	+598.21	1,416.25 m^2
-- No. of blocks	8	-5	3
-- Number of units	Commercial units - 16 Residential units – 464	Commercial units – (-3) Residential units – (-252)	Commercial units - 13 Residential units – 212
-- No. of floors	Block A: 14 Block B: 14 Block C+D: 13 Block E+F: 14 Block G+H: 14	Block A: +4 Block B: +5 Block C+D: +6 Block E+F: 0 Block G+H: 0	Block A: 18 Block B: 19 Block C: 19
-- Basement area	12,932.08 m^2	+2490.39	15,422.47 m^2
-- Parking area	15,905.22 m^2	+1073.21	16,978.43 m^2
-- Greenbelt area	818.04 m^2	+116.96	935.0 m^2

2. Details of the Application:

2.1. Type of application:	EC-Expansion
2.2. Proposal no.	SIA/GJ/INFRA2/412117/2022
2.3. Category of Project :	8(a)
2.4. Date of application accepted by SEAC	20-12-2022

2.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC, Fire fighting opinion etc.
2.6. TOR No. & Date :	Not applicable as project is categorized as B2
2.7. Technical expert / Environmental Consultant Name :	M/s. Anand Environmental Consultants Pvt. Ltd. Mobile No: +91 9712911748 anandconsultants2009@gmail.com
2.8. SEAC Meeting No. and Date:	Meeting No.: 587th, Date: 27-02-2023

3. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/412117/2022
2.	Name of the project	Swati Parkside – 2
3.	Address of the Site	Survey No. 272/3, D.T.P.S. No. 87 (Sarkhej-Okaf-Fatehwadi), O.P. No. 48/3, F.P. No. 48/3, Moje: Sarkhej, Taluka: Vejalpur, District: Ahmedabad, State: Gujarat, Pin Code: 382210.
4.	Name of Developer	M/s.Bliss Serene LLP.
5.	Estimated Project Cost (Rs. In Crores)	Approved EC cost= Rs. 105 Crores Proposed expansion cost= Rs. 20 Crores Total cost = Rs. 125 Crores
6.	Whether construction work has been initiated at site? If yes, details thereof And if No, Date up to which construction has not started.	No construction with respect to this Environmental Clearance application has been initiated on site. Any existing excavation work on site is with respect to the earlier granted Environmental Clearance vide no.: SEIAA/GUJ/EC/8(a)/1278/2021, dated: July 2, 2021.
7.	Details of Undertaking stating current status of construction at site.	Copy of No construction carried out has been submitted with the application.
8.	Whether NA permissions of all survey Nos have been obtained, details there of	Copy of NA permissions document for the entire land area has been submitted with the application.
9.	Site coordinates	(with all coordinates of the polygon) A 22°59'10.76"N 72°28'28.78"E B 22°59'12.08"N 72°28'28.77"E C 22°59'12.07"N 72°28'30.67"E D 22°59'13.88"N 72°28'30.69"E E 22°59'13.88"N 72°28'32.86"E F 22°59'10.69"N 72°28'32.80"E

<table>
<tr><td>10.</td><td>Project Details</td><td>
• Land / Plot Area (m^2): 8,135.00
• FSI area (m^2):32,535.36
• Total BUA (m^2):57,862.42
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area(m^2)</td><td>32,540.00</td><td>32,535.36</td></tr>
<tr><td>Ground Coverage(m^2)</td><td>--</td><td>2780.98</td></tr>
<tr><td>Common Plot Area(m^2)</td><td>818.04</td><td>1416.25</td></tr>
<tr><td>Max. building height(m)</td><td>80.0</td><td>62.32</td></tr>
</table>
</td></tr>
<tr><td>11.</td><td>In case of Expansion project/ Amendment project</td><td>
<table>
<tr><td>Reason of the Expansion</td><td colspan="2">The project proponent would like to change in building design with marginal increase in floor area.</td></tr>
<tr><td>Details of earlier EC obtained for the project</td><td colspan="2">SEIAA/GUJ/EC/8(a)/1278/2021 Dated- 02/07/2021</td></tr>
<tr><td>Compliance of the earlier EC</td><td colspan="2">Submitted with the application.</td></tr>
<tr><td rowspan="2">Status of construction completed on site</td><td>Built up area constructed:</td><td>--</td></tr>
<tr><td>No. of blocks and floors constructed:</td><td>Basement excavation started.</td></tr>
<tr><td rowspan="3">If earlier EC not applicable/not obtained for the project then details of Development Permission (Rajachithhi) obtained from other Local Authority</td><td>Name of the Authority</td><td rowspan="3">Earlier EC was obtained.</td></tr>
<tr><td>Date of order</td></tr>
<tr><td>Builtup area granted</td></tr>
<tr><td>Documentary proof submitted for supporting the expansion of the project.</td><td colspan="2">Revised plans showing change in layout of proposed project.</td></tr>
</table>
</td></tr>
<tr><td>12.</td><td>In case of Expansion/ Amendment</td><td>
Tabular form stating the details granted in Earlier EC and Amendment /Expansion required.
<table>
<tr><td>Condition No.</td><td>Details as per EC Granted</td><td>Details require by the PP</td></tr>
<tr><td>Subject</td><td>Environment Clearance for the Building Construction Project "Bliss Serene" at</td><td>Environment Clearance for the Building Construction Project "Swati Parkside 2" at</td></tr>
</table>
</td></tr>
</table>

				Survey No. 272/3, D.T.P.S. No. 87 (Sarkhej-Okaf-Fatehwadi), O.P. No. 48/3, F.P. No. 48/3, Moje: Sarkhej, Taluka: Vejalpur, District: Ahmedabad, State: Gujarat, Pin Code: 382210 proposed by M/s. Bliss Serene LLP. Construction project in Category 8 (a) of Schedule annexed with EIA Notification dated 14/09/2006.	Survey No. 272/3, D.T.P.S. No. 87 (Sarkhej-Okaf-Fatehwadi), O.P. No. 48/3, F.P. No. 48/3, Moje: Sarkhej, Taluka: Vejalpur, District: Ahmedabad, State: Gujarat, Pin Code: 382210 proposed by M/s. Bliss Serene LLP. Construction project in Category 8 (a) of Schedule annexed with EIA Notification dated 14/09/2006.	
			--	The proposal is for Environmental Clearance for the Building Construction Project "Bliss Serene" at Survey No. 272/3, D.T.P.S. No. 87 (Sarkhej-Okaf-Fatehwadi), O.P. No. 48/3, F.P. No. 48/3, Moje: Sarkhej, Taluka: Vejalpur, District:	The proposal is for Environmental Clearance for the Building Construction Project "Swati Parkside 2" at Survey No. 272/3, D.T.P.S. No. 87 (Sarkhej-Okaf-Fatehwadi), O.P. No. 48/3, F.P. No. 48/3, Moje: Sarkhej, Taluka: Vejalpur, District: Ahmedabad,	

			Ahmedabad, State: Gujarat, Pin Code: 382210 proposed by M/s. Bliss Serene LLP. This is a proposed building construction projecthaving plot area of 8135.00 m^2 and the proposed FSI area of the project is 32,452.85 m^2 with proposed built up area of56,049.29 m^2. As the built up area is >20,000$m^2$and <1,50,000m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.	State: Gujarat, Pin Code: 382210 proposed by M/s. Bliss Serene LLP.This is a proposed building construction projecthaving plot area of 8135.00 m^2 and the proposed FSI area of the project is 32,667.93 m^2 with proposed built up area of57,862.42 m^2. As the built up area is >20,000$m^2$and <1,50,000m^2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.	
			--	The project will comprise of 05 numbers of buildings. No. of Blocks: 08. Scope of buildings/blocks are: Block: A, B, C+D, E+F, G+H: 2 Basements + Ground Floor / HP + $1^{st}$to 14^{th} Floor and No. & size of Commercial	The project will comprise of 03 numbers of buildings. No. of Blocks: 03. Scope of buildings/ blocks are: Block: A, B, C: 3 Basements + Ground Floor / HP + $1^{st}$to 19^{th} Floor and No. & size of Commercial units: 13 and Residential

				units: 16 and Residential Units are: 464.	Units are: 212.	
			A.2.1-7	Total water requirement during the operation phase shall not exceed 360.62 KLD, out of which fresh water requirement of 246.74 KLD shall be met through AMC and the remaining 113.88 KLD of water requirement shall be metthrough treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.	Total water requirement during the operation phase shall not exceed 210.5 KLD, out of which fresh water requirement of 134.44 KLD shall be met through AMC and the remaining 76.06 KLD of water requirement shall be metthrough treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.	
			A.2.1-8	Sewage generation during operation phase shall not exceed 285.55KLD which shall be treated in the proposedOnsite Sewage Treatment Plant.	Sewage generation during operation phase shall not exceed 164.5 KLD which shall be treated in the proposedOnsite Sewage Treatment Plant.	
			A.2.1-9	The treated	The treated	

			wastewater discharge to AMC drainage line. Necessary permission fromAMC shall be obtained for discharging of same in the drainage line. The treated water to be discharge shouldmeet all standard limits prescribed as per the norms of GPCB/CPCB and competent authority which shall be displayed and inform to local bodies.	wastewater discharge to AMC drainage line shall not exceed 88.44 KLD. Necessary permission fromAMC shall be obtained for discharging of same in the drainage line. The treated water to be discharge shouldmeet all standard limits prescribed as per the norms of GPCB/CPCB and competent authority which shall be displayed and inform to local bodies.	
			A.2.1-10	PP will provide funds, actually required for the development of STP of capacity not less than 300 KLD as theEMP and budgetary provision appear to be inadequate.	PP will provide funds, actually required for the development of STP of capacity not less than 185 KLD as theEMP and budgetary provision appear to be inadequate.	
			A.2.5-27	Minimum parking space of 15905.22m² (515 CPS) [12932.08m² in Basement + 2233.14 m² in Hollow Plinth + 740 m² in open	Minimum parking space of 17460.19 m²(553 CPS) [12899.47 m² in Basement + 1555.96 m² in Hollow Plinth + 481.76 m² in	

			area] shall be provided as proposed.	open area] shall be provided as proposed.	
		A.2.6-28	Energy conservation measures viz maximum use of natural lighting through architectural design, energyefficient motors E pumps, water efficient taps, solar lights in open &solar street light, 88 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof top thermalinsulati on etc. shall be implemented as proposed.	Energy conservation measures viz maximum use of natural lighting through architectural design, energyefficient motors E pumps, water efficient taps, solar lights in open &solar street light, 52.11 KW solar powergeneratio n, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof top thermalinsulati on etc. shall be implemented as proposed.	
		A.2.7-29	Green belt area of 818.04m² comprising of 450 m² tree covered area with 204 trees within premises shall bedeveloped as proposed. The other open spaces inside the plot	Green belt area of 935m² comprising of 285 m² tree covered area with 204 trees within premises shall bedeveloped as proposed. The other open spaces inside the plot shall be suitably	

			shall be suitably landscaped and covered withvegetation of indigenous tree species.	landscaped and covered withvegetation of indigenous tree species.	

13.	Building Details	No. of Buildings:	03
		No. of Blocks:	03
		Scope of buildings/blocks:	BLOCK – A: 3 Basements + Ground Floor/HP + 1st to 18th Floor Block – B: 3 Basements + Ground Floor/HP + 1st to 19th Floor Block – C: 3 Basements + Ground Floor/HP + 1st to 19th Floor
		No. & size of Residential Units:	212 (111.66 Sq.m to 189.10 Sq.m)
		No. & type of Commercial Units:	13 Shops
		Details of amenities if any:	Society rooms for common use
14.	No. of expected residents / users/	• **For Residential Unit:** Residents population:(136 flats x 6 persons/flat) = 816 &(76 flats x 7 persons/flat) = 532 Residents population:(13 units x 5 persons/unit) = 65 • **For Commercial Unit:** Visitors population:(136 flats x 2 persons/flat/day) = 272 &(76 flats x 2 persons/flat/day) = 152 Visitors population:(13 units x 3 persons/unit/h) = 39	
15.	Water & waste water details during construction phase and operation phase	**CONSTRUCTION PHASE**	
		Water requirement (KL/day):	25
		Source of water/Supply from-	Local water tanker suppliers
		Waste water generation quantity (KL/day):	04
		Mode of disposal:	Septic tank / soak pit system
		Details of reuse of water, if any:	--
		OPERATION PHASE	
		Total water Consumption (KL/day):	210.5 KLD

		Fresh water requirement (KL/day):	134.44 KLD
		Recycle of treated w/w, KL	76.06 KLD
		A. Gardening area, KLD	4.6 KLD
		B. Flushing	63.16 KLD
		C. Vehicle washing	8.3
		D. Sprinklers (Nos in premises, with pipeline details)	Sprinkler system will be provided in all of the basements and hollow plinth parking areas.
		D.Storage tank details for storage of treated domestic waste water in premises	Overhead storage tank of 25,000 liters capacity for treated domestic wastewater will be provided in each block of the project.
		Source of water:	Ahmedabad Municipal Corporation (AMC)
		Total Waste water generation quantity (KL/day):	164.5 KLD
		Treated Waste water to be reused	Treated wastewater will be reused in Gardening, Toilet flushing andvehicle washing purposes. Remaining treated water will be disposed into underground drainage of AMC.
		Quantity and type (treated/untreated) of water to be discharged:	88.44KLD treated water will be discharged through AMC drainage.
		In case of STP provision, capacity of STP:	Yes, 185 KLD
		STP Technology:	Activated Sludge Processtype
		Provision of dual plumbing system (Yes/No):	Yes
16.	Status of water supply and drainage line and its permission/ acknowledgement details	Water supply and drainage lines already exist in the surrounding area.	
17.	Solid waste Management	**Construction Phase**:	

	Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
Top Soil	7500	7500	Developme nt of

					greenbelt
		Other excavated earth	75600	75600	Levelling low lying areas within the site &OR will be sent to other sites where the need may exist.
		Construction debris	2250 MT	2250 MT	Basement PCC and Road pavement
		Steel scrap	Whatsoever generated	Whatsoever generated	To be sold to scrap dealer
		Discarded packing materials	Whatsoever generated	Whatsoever generated	To be sold to authorized vendor.
		Others			
		Operation Phase:			
		Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
		Dry waste	261	Two separate bins (one for dry waste and one for wet waste) of 10 liters capacity will be provided to each unit. These bins will be emptied daily into the community bins of 80 liters capacity provided at various locations.	Wet (biodegradable) waste will be converted to useful end product by Organic Waste Converter proposed on site and dry waste will be collected by AMC for its ultimate disposal.
		Wet waste	393		

				Separate community bins will be provided for wet and dry waste.	
		STP Sludge	16	STP sludge will be collected from the Filter Press in bags and stored in the sludge storage area.	Reused in gardening as manure within premises and any additional sludge will be given away to vendors in the nearby area.
		Details of segregation if to be done:		separate bins will be provided to collect dry and wet waste	
		Capacity and no. of community bins to be placed within premises:		30 nos. of bins of 80 Litre capacities each.	
		Landfill site where waste will be ultimately disposed by local authority:		Final disposal at the MSW dumping / landfill site.	

18. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of stair case	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Block A	1st	731.02	2	2.0	4	02	Max. 26.31
	2nd to 16th	714.46					Max. 27.86
	17th	756.42					Max. 26.31
	18th	446.65					Max. 26.31
Block B	1stto 17th	501.33	2	2.06	4	02	Max. 21.43
	18th	507.31					
	19th	423.82					

		Block C	1st to 18th	501.56	2	2.06	4	02	Max. 19.58
			19th	317.22					

19.	Parking Details	As below:	Sq. mtrs.	CPS
	Total parking area requirement for the project as per GDCR:		7434.45	--
	Parking area requirement for residential units as per GDCR:		6997.59	--
	Parking area requirement for commercial units as per GDCR:		436.86	--
	Parking area requirement as per GDCR for (specify in case of any other):		--	--
	Total number of CPS requirement for the project as per NBC		--	241
	Total parking area provided (m^2) & No. of CPS:		16,978.43	537
	Parking area provided in basement (m^2) & No. of CPS:		15422.47	481
	Parking area provided in hollow plinth (m^2) & No. of CPS:		1555.96	56
	Parking area provided as open surface (m^2) & No. of CPS:		--	--
	Number of Visitor parking provided in the project (No. of CPS):			22

20.	Traffic Management	Width of adjacent public roads:	60 m wide T.P.S road.	
		Number of Entry & Exit provided on approach road/s:	Two separate entries of 8.0 m and Two separate exits of 8.0 m for residential purpose. One entry of 6.0 m and one exit of 6.0 m for commercial purpose.	
		Number of Entry and Exit ramp tothe basement:	Two no. of ramps having a width of 4.61 m and 4.08 m.	
		Width of Entry & Exit provided on approach road/s:	Two separate entries of 8.0 m and Two separate exits of 8.0 m for residential purpose. One entry of 6.0 m and one exit of 6.0 m for commercial purpose.	
		Width of the Roads:	Permissible	Proposed
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	8.0 m	8.0 m
		Width of all internal roads:	8.0 m	8.0 m
21.	Details of Green Building measures proposed.	Maximum use of LED lights, use of variable frequency drive motors to optimize power consumption, use of fly ash paver blocks, most of the carpentry structures will be made up of		

		processed engineering wood/ particle board instead of wood, maximum use of Portland Pozzolona Cement (PPC), PVC electrical boards, maximum use of Ready Mix Concrete (RMC), rainwater harvesting by recharging the ground water table with provision for 3 percolation well, provision of Sewage Treatment Plant and reuse of the treated water.		
22.	Energy Requirement, Source and Conservation	Power supply:	Uttar Gujarat Vij Company Ltd. (UGVCL)	
		Maximum demand: Connected load: Source:	1.2 MW during Operation Phase 1.2 MW Uttar Gujarat Vij Company Ltd. (UGVCL)	
		Energy saving measures:	Maximum use of LED lights, use of variable frequency drive motors to optimize power consumption, maximum use of light & silent colours in the building envelope so that UV absorption is reduced & associated cooling requirements are minimized, provision of roof top solar panels.	
		Power Generation:	Required	Provided
		Solar power generation (Capacity in KW):	60 kW	60.73 kW
		No. of solar panels	--	121 nos.
		Capacity of each Solar cell	500 W	500 W
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting	35.0 kWh/day
			Total Solar Power Utilization for Water Pump	67 kWh/day
			Total Solar Power Utilization for Electric Vehicles Charging Station	202 kWh/day
			Other usage	--
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	---	1 No. of180KVA Diesel; 40 litres/hour

23.	Electric vehicle charging provision	Total no. of EV Charging points provided	44 nos.
		Parking area designated for EV Charging parking	Electric car charging stations will be provided for 1408 m^2 of the required CPS
		Total proposed EV charging capacity	132 KW
		Total power requirement to charge Electric Vehicle in kWh/day	792 kWh/day
		Availability of power	Out of 792 kWh/day of power requirement for Charging of Electric Vehicles, 202 kWh/day will be utilized from solar power generation and remaining 590 kWh/day will be utilized from Uttar Gujarat Vij Company Ltd. (UGVCL)
24.	Fire and Life Safety Measures	**During the construction phase**:	
		Fall Protection	• Each worker working at edge 6 feet or more above a lower level will be protected by ✓personal fall arrest systems, ✓fall arrest safety net systems as well as ✓guardrail systems • Temporary walls will be provided on the periphery of each at every open shaft. • Once in a month safety training will be given to each and every worker to follow safer practices.
		Foot Protection	✓Personnel Protective Equipment ✓Earplugs ✓Dust Masks ✓Helmets ✓Hand gloves ✓Safety Shoes will be provided as additional safety measure to all workers with a mandatory condition of the same being used regularly.
		Head Protection	
		Noise Protection	• Hearing protection devices such as earplugs or earmuffs will be made available to workers and its

			use will be made mandatory.
		Eye Protection	• Extra precautions like a face shield, fire-resistant helmet and protective eyewear and earmuffs while working with wiring will be provided.
		Ladders and Stairs Scaffolds Access to Scaffolds	• H" frame scaffolds & ladders made of mild steel will be used. • During the use of a scaffold, care will be taken that it is not overloaded or otherwise misused. • The safety of workers will be safeguarded by an extra rope having a point of attachment independent of the anchorage arrangements of the scaffold; • Before use, the whole structure will be checked by a competent person. • Proper use of PPE's by the person will be ensured.
		Trenching and Excavation	• Sloping and benching method will be used by themselves or in conjunction with one another during trenching. • Trench shields will be provided. • Barriers and stop-blocks will be used. • Flooding will be avoided by ensuring provision of appropriate pumping equipment. • Structural ramps, high-visibility vests, warning signs, emergency equipment will be provided.
		Electrical Safety	• Electrical gloves and footwear will be provided to workers carrying out electrical work and use of the same will be made mandatory. • Extra precautions like a face shield, fire-resistant helmet and protective eyewear and earmuffs while working with wiring will be provided. • Floor cable protectors will be used. • Completely concealed copper wiring, all electrical fittings / equipments used will meet the

			relevant IS standards etc. • Appropriate electrical circuit breakers will be provided during the construction phase. • A safe system of work (SSoW) which specifies the competence, skills and knowledge required to do the task will be set out before beginning work and it will be ensured that it is read by the workers.
		Occupational Noise Exposure	• Hearing protection devices such as earplugs or earmuffs will be made available to workers and its use will be made mandatory. • Vehicles will be kept periodically serviced and maintained as per the requirement of latest trend in automobile industry. • All the vibrating parts will be checked periodically and serviced to reduce the noise generation and the sound producing equipment will be enclosed in the sound proofing enclosure. • D. G. Set will be of enclosed type with necessary acoustic enclosures to mitigate the impact of noise.
		Welding and Cutting Cranes	• All workers will be trained to use welding shields and follow safer practice. • Helmets, hand shields will be arranged to save neck, face, and ears from direct heat from the arc. • Care will be taken that welding is done in adequate ventilation and in a fire safe area. • Workers will be provided with safety glasses, wear face masks, welding shields, chemical splash goggles, and dust goggles when on cutting activity will be carried out. • First aid kit will be kept available and handy. • It will be ensured that nobody is nearby and there are no

			obstructions to load movement while crane is in operation. • It will be ensured that safety features, such as latches on hooks/hoists, and emergency disconnects, are in place. • A qualified operator will be hired for safe operations of cranes.	
		Others		
		During the operation phase"	Fire safety measures	• Fire protection system viz. fire extinguishers, hydrant system, sprinkler system, hose reel, fire pumps, manually operated electric fire alarm system etc. will be provided as per National Building Code of India 2005 (Part 4 – Fire and Life Safety) and / local authority requirements • All requirements with respect to our Fire Opinion letter will be complied by the project. • Such systems will be tested and put into operation and proper care will be taken for its effective operation during emergency, if

				any. • Electrical circuit breakers will be provided in all our buildings / blocks and at appropriate locations across the project site. • A lightning arrester will be provided and properly earthed to prevent damage to the building when the lightning strikes. • First aid emergency kits will be provided in adequate quantity at all the times. • All the lifts have a provision to ground automatically in case of electricity failure. • In case of emergency refuge area has been provided on 5th, 7th, 12th and 16th floors.
			Capacity of Underground fire water tank	Underground Fire water tank of 1,50,000 litre capacity will be provided.
			Capacity of Overhead fire water tank	Overhead water tank of capacity 25,000 Liters will be provided in

				each block.
		Status of fire opinion obtained for the project, submit details	Fire opinion letter has been obtained for the project and submitted with the application.	
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Nearest fire station is the “Sanand Nagarpalika fire station”. The distance from the project site is approx. 6.0 km in West direction. Time required for the fire tender to reach at the project site is approx. 11 minutes.	
25.	Rain Water Harvesting (RWH)	Level of the Ground water table:	100 m	
		RWH/Percolation well details:	Required	Provided
		No. of RWH tank(s)	1 No.	1 No.
		Dimensions of RWH tank(s) :	--	Approx. 9.00 * 3 * 3.40
		No. of percolations wells :	03	03
		Depth of percolations wells :	up to underground river aquifer	up to underground river aquifer
		Details on Pre-treatment facilities	Screen pit before the percolation well.	
26.	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2) :	203.37	285
		Area covered by shrubs and bushes (m^2):	--	--
		Lawn covered area (m^2):	203.37	650.0
		Total Green Area (m^2):	406.75	935.0
		Green Area % of plot area:	5	11.5
		No. of trees and species to be planted:	204	204 of trees of local flora species i.e.Neem, Gulmohar ,Ashok,

				Jambu, Guava, Asopalav, Saptaparni
27.	Basic amenities to be provided to construction workers.	Sanitation facilities, drinking water, municipal solid waste collection facility etc.		
28.	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**	
		Air	Dust Mitigation Measures	
			Stack and DG room	
		Noise Control	Provision of acoustic enclosures for individual noise generating construction equipments like D.G. Set etc. Servicing of equipments used for construction activities. Provision of ear plugs/ear muffs.	
		Water	185 KLD – Activated Sludge Process Type STP, Area Required – approx 120 Sq. m. Dual plumbing system	
		Solid and hazardous waste management	654 Kg/Day (Wet waste – 393 Kg/day, Dry waste – 261 Kg/day) Automatic OWC capacity 500 kg/day Area required – 8.75 Sq.m.	
		Environment monitoring	The recurring cost would be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.	
		Rain water	Collection system, treatment and recharge well - 03 nos. P. W.C.	
		Green belt	204 nos. Trees and Lawn Area Development	
		Solar Energy	Roof Top Solar – 60.73 KW; Terrace Space require – 534.46 Sq.m.	
		Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from AMC and Fire and Safety Equipment and PPE's will be provided to workers during Construction Phase.	
		CER	Upgrade and renovate Public Health Centre of Sarkhej-Okaf with paved area, RO water facility, Sanitation area, Solar roof top, Sit out waiting area and Medical equipment's for basic diagnosis,	

			upgrade and renovation of 12 classes at Sarkhej-Okaf government primary school with proper furniture and fixture, Library area, RO water with storage tank, solar rooftop, Sanitation facilities for students, Upgrade and renovate Public health centre at Fatehwadi with paved area, RO water facility Sanitation area, Solar roof top, waiting area and Medical Equipment's for basic diagnosis, Tree plantation along with its maintenance and installation of solar lights on the roads adjacent to our project site.
		Amenities/ Occupational health center.	Providing of amenities facility for workers. Personal protective equipments like earplugs, dust masks, nose masks, safety shoes, helmets, hand gloves, etc will be provided to all workers. All workers will be trained to use welding shields and follow safer practice.
29.	Budgetery provision of Environment Management plan		

Sr. No.	**Head**	**Basis for cost estimates**	**Capital cost (Rs. In lacs)**	**Recurring cost per annum (Rs. in lacs)**	**Implementation Plan For Capital Expenditure**		
					2023-24	**2024-25**	**2025-26**
1.	Air	Dust Mitigation Measures like: Loose materials like sand, cement or other fine materials will be stored in covered or enclosed areas to avoid the fugitive emission. The area of	4.6	1.2	1.54	1.53	1.53

				excavation will be wetted prior to mobilization of equipment during active excavation. Wind-breaker of 10 meters height will be provided in such a way that minimizes dust dispersal. Water sprinkling system will be adopted to suppress dust. Grinding and cutting of building materials will be within closed area made by curtains/barrier etc						
				Stack and DG room	4.0	1.0	--	--	4.0	
		2.	Water	185 KLD – Activated Sludge process Type STP, Area Require – 120 Sq. m.	25.0	5.5	25	--	--	
		3.	Solid and hazardous waste management	654 Kg/Day (Wet waste - 393 Kg/day, Dry waste – 261 Kg/day) Automatic OWC Total area require – 8.75 Sq.m.	8.0	2.0	--	8.0	--	
		4.	Noise Pollution Control	Provision of acoustic enclosures for individual noise generating construction equipments like D.G. Set etc. Servicing of	2.0	1.0	2.0	--	--	

				equipments used for construction activities. Provision of ear plugs/ear muffs.					
		5.	Environment monitoring	The recurring cost would be incurred on hiring of consult- ants and payment of various statutory fees to regulatory agencies.	--	0.2	--	--	--
		6.	Rain water	Collection system, treatment and recharge well - 3 nos. P. W.C.	6.0	0.5	6.0	--	--
		7.	Green belt	204 nos. Trees and Lawn Area Development	2.04	0.5	2.04	--	--
		8.	Solar Energy	Roof Top Solar – 60.73 KW; Terrace Space require – 534.46Sq.m.	30.36	1.0	--	--	30.36
		9.	Occupational Health & Safety	Personal protective equipments like earplugs, dust masks, nose masks, safety shoes, helmets, hand gloves, etc will be provided to all workers. All workers will be trained to use welding shields and follow safer practice.	1.0	--	1.0	--	--
		10.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from AMC and Fire	50	--	--	--	50.0

				and Safety Equipment and PPE's will be provided to workers during Construction Phase.							
		11.	CER	Upgrade and renovate Public Health Centre of Sarkhej-Okaf with paved area, RO water facility, Sanitation area, Solar roof top, Sit out waiting area and Medical equipment's for basic diagnosis, upgrade and renovation of 12 classes at Sarkhej-Okaf government primary school with proper furniture and fixture, Library area, RO water with storage tank, solar rooftop, Sanitation facilities for students, Upgrade and renovate Public health centre at Fatehwadi with paved area, RO water facility Sanitation area, Solar roof top, waiting area and	177.0	--	60	59	58	

				Medical Equipment's for basic diagnosis, Tree plantation along with its maintenance and installation of solar lights on the roads adjacent to our project site.					
		12.	Amenities	Providing of amenities facility for worker	1.0	0.3	1.0	--	--
				Total	**311**	**13.2**	**98.58**	**68.53**	**143.89**

- Committee deliberated on the following:
  - ✓ PP were asked to submit clarification regarding Construction Completed w.r.t expansion proposed, Floorwise table of EC granted, proposed Expansion and already constructed in tabular form, Latest Photographs along with Latitude and longitude.
- <u>After Detailed Deliberation Committee unanimously decided to DEFER the project and consider this project only after satisfactory submission of the following :</u>
  1. Clarification regarding Construction Completed w.r.t expansion proposed.
  2. Floorwise area table of EC granted, proposed Expansion in area and area already constructed.
  3. Latest Photographs along with Latitude and longitude.

7	**SIA/GJ/INFRA2/412372/2022**	**Residential Building Project Re.S.No.- 16/1/Paikee 1 To 6, F.P. No.- 28+29, , O.P.No. - 10 T.P. Scheme N0. - 3 (Rundh), Moje - Rundh**	**EC-New**

- This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/INFRA2/412372/2022 dated: 17/01/2023.
- This is a proposed Residential building construction project having net plot area of 5,064.00 m2, FSI area of 13,672.67 m2 and the proposed built-up area of the project is 26,811.49 m2, As the built-up

area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.

- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Details of the Application:

1.1. Type of application:	EC-New
1.2. Proposal no.	SIA/GJ/INFRA2/412372/2022
1.3. Category of Project:	8(a)
1.4. Date of applicationaccepted by SEAC	17/01/2023
1.5. Documents Submitted by Project Proponent (PP)	Form -1, Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC,etc.
1.6. TOR No. &Date:	Not applicable as project is categorized as B2
1.7. Technical expert / Environmental ConsultantName:	Mr. Pankaj Lakhani
1.8. SEAC Meeting No. and Date:	Meeting no: 587 Date :27/02/2023

2. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/412372/2022
2.	Name of the project	Residential Building Project
3.	Address of the Site	Re.S.No.- 16/1/Paikee 1 To 6, F.P. No.- 28+29, , O.P.No. - 10 T.P. Scheme N0. - 3 (Rundh), Moje - Rundh
4.	Name of Developer	M/s. Shilpam Corporation
5.	Estimated Project Cost (Rs. In Crores)	Rs. 42.83 crores
6.	Whether construction work has been initiated at site? If yes, details thereof	No, undertaking is already submitted in this regard.

<table>
<tr><td></td><td>And if No, Date up to which construction has not started.</td><td></td></tr>
<tr><td>7.</td><td>Details of Undertaking stating current status of construction at site.</td><td>Notarized Undertaking of no construction activity started is submitted with the application.</td></tr>
<tr><td>8.</td><td>Whether NA permissions of all survey Nos have been obtained, details there of</td><td>Yes, submitted along with application</td></tr>
<tr><td>9.</td><td>Site coordinates</td><td>(with all coordinates of the polygon)
<table>
<tr><td>1.</td><td>21° 9'17.18"N</td><td>72°45'40.39"E</td></tr>
<tr><td>2.</td><td>21° 9'17.85"N</td><td>72°45'38.56"E</td></tr>
<tr><td>3.</td><td>21° 9'18.32"N</td><td>72°45'38.63"E</td></tr>
<tr><td>4.</td><td>21° 9'19.10"N</td><td>72°45'40.11"E</td></tr>
<tr><td>5.</td><td>21° 9'16.42"N</td><td>72°45'42.10"E</td></tr>
<tr><td>6.</td><td>21° 9'15.58"N</td><td>72°45'40.66"E</td></tr>
</table></td></tr>
<tr><td>10.</td><td>Project Details</td><td>• Land / Plot Area (m^2): 5,064.00
• FSI area (m^2):13,672.67
Total BUA (m^2):26,811.49
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area(m^2)</td><td>13,672.80</td><td>13,672.67</td></tr>
<tr><td>Ground Coverage(m^2)</td><td>-</td><td>1,664.98</td></tr>
<tr><td>Common Plot Area(m^2)</td><td>506.40</td><td>518.37</td></tr>
<tr><td>Max. building height(m)</td><td>45.33</td><td>43.00</td></tr>
</table></td></tr>
<tr><td>11.</td><td>Building Details</td><td>
<table>
<tr><td>No. of Buildings:</td><td>2</td></tr>
<tr><td>No. of Blocks:</td><td>2</td></tr>
<tr><td>Scope of buildings/blocks :</td><td>2 nos of buildings having 2Basement +Hollow plinth +11 floors.</td></tr>
</table></td></tr>
</table>

		No. & size of Residential Units:	43
		No. & type of Commercial Units:	-
		Details of amenities if any:	Club house and jogging track
12.	No. of expected. residents / users/	Residents:215 Visitors: 25	
13.	Water &wastewater details during construction phase and operation phase	**CONSTRUCTION PHASE**	
		Water requirement (KL/day):	15
		Source of water/Supply from-	Water supply from SMC
		Wastewater generation quantity (KL/day):	2.1
		Mode of disposal:	Disposal into soak pit and septic tank
		Details of reuse of water, if any:	2.8 KLD Recycle Water from Washing of construction equipment
		OPERATION PHASE	
		Total water Consumption (KL/day):	33 kl/day
		Fresh water requirement (KL/day):	18 kl/day
		Recycle of treated w/w, KL	15 kl/day
		A. Gardening area, m2	3 kl/day
		B. Flushing	12 kl/day
		C. Sprinklers (Nos in premises, with pipeline details)	20 Sprinklers will be provided with appropriate pipeline infrastructure.
		D. Storage tank details for storage of treated domestic	100 kl/day

		wastewater in premises	
		Source of water:	SMC
		Total Wastewater generation quantity (KL/day):	24 kl/day
		Treated Wastewater to be reused	15 kl/day
		Quantity and type (treated/untreated) of water to be discharged:	9 kl/day into u/g drainage line of SMC
		In case of STP provision, capacity of STP:	40 kl/day
		STP Technology:	MBBR technology
		Provision of dual plumbing system (Yes/No):	Yes

14.	Status of water supply and drainage line and its permission/ acknowledgement details	The project is under SMC, well planned sewage and water supply network is exists in the vicinity of the project moreover, drainage connection and water supply connection shall be awarded after approval of plan as per the practice of SMC			
15.	Solid waste Management	**Construction Phase**:			
			Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
		Topsoil	506.4 m^3	275 m^3	275 m^3 of excavated Topsoil Utilized for greenbelt development
		Other excavated earth	21,616.42 m^3	3,038.4 m^3	Excess soil of 18,809.42 m^3 shall be utilized at other project site after obtaining necessary permission if any
		Construction debris	100 kg/day	Nil	Send to C & D waste management facility

		Steel scrap	15 kg/day	Nil	Sold off to recyclers
		Discarded packing materials	6 kg/day	-	Sold off to recyclers
		Others	-	-	-

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse
Dry waste	34 kg/day	Into bins to be provided Within premises	Disposal through door-to-door waste collection system of SMC.
Wet waste	52 kg/day		
STP Sludge	15 kg/day	Manual	As manure within premise or sold

Details of segregation if to be done:	For Solid waste segregation at source will be adopted and wet waste will be processed within premises using OWC, Recyclable material will be sold to recycler.
Capacity and no. of community bins to be placed within premises:	2 nos of bin having capacity of 20 kg each for dry waste and 30 kg for wet waste will be provided to each block.
Landfill site where waste will be ultimately disposed by local authority:	Khajod Disposal Site

16. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A	2B+G+11	665.01	2	2.00 m	3	1	Less than 15 m
B	2B+G+11	654.34	2	2.00 m	3	1	Less than 15 m

17.	Parking Details	As below:	Sq. mtrs.	CPS

	Total parking area requirement for the project as per GDCR:			2,734.56	-
	Parking area requirement for residential units as per GDCR:			2,734.56	-
	Parking area requirement for commercial units as per GDCR:			NA	NA
	Parking area requirement as per GDCR for (specify in case of any other):			NA	NA
	Total number of CPS requirement for the project as per NBC			-	43
	Total parking area provided (m^2) & No. of CPS:			5,729.43	184
	Parking area provided in basement (m^2) & No. of CPS:			4,674.25	146
	Parking area provided in hollow plinth (m^2) & No. of CPS:			1,055.18	38
	Parking area provided as open surface (m^2) & No. of CPS:			-	-
	Number of Visitor parking provided in the project (No. of CPS):			-	20
18.	Traffic Management	Width of adjacent public roads:	Two 18 mt wide D.P Road		
		Number of Entry & Exit provided on approach road/s:	Two gates will be provided.		
		Number of Entry and Exit ramp to the basement:	2		
		Width of Entry & Exit provided on approach road/s:	6.0 m		
		Width of the Roads:	Permissible	Proposed	
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6	6.00	
		Width of all internal roads:	4.50	6	
19.	Details of Green Building measures proposed.	Provision to install aerated coke (Foam Type) in wash basins, kitchen, low flush water closets in toilet and pressure reducing valves in water pipeline, rainwater harvesting & ground water recharge, maximum utilization of natural light, roof-top thermal insulation, LED lighting fixtures in the common areas, appropriate design to shut out excess heat and gain loss, use of solar energy in external lighting (landscape lighting), use of aerated blocks etc.			

20.	Energy Requirement, Source and Conservation	Power supply:		
		Maximum demand: Connected load: Source:	250 KW 300 KW DGVCL	
		Energy saving measures:	Maximum utilization of natural light, roof-top thermal insulation, LED lighting fixtures in the common areas, appropriate design to shut out excess heat and gain loss, use of solar energy in external lighting (Landscape lighting), use of aerated blocks etc.	
		Power Generation:	Required	Provided
		Solar power generation (Capacity in KW):	13	30
		No. of solar panels	24	56
		Capacity of each Solar cell	500 W	540 W
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting	12 kW
			Total Solar Power Utilization for Water Pump	8 kW
			Total Solar Power Utilization for Electric Vehicles Charging Point	10 kW
			Other usage	No
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	Diesel (10 Litre/h)	1no and 125 KVA diesel (10 Liter/h)
21.	Electric vehicle charging provision	Total no. of EV Charging points provided	37	
		Parking area designated for EV Charging parking	Ground area & basement area will be having EV Charging Points.	
		Total proposed EV charging capacity	We will provide additional power load equivalent to the power required for all charging points to be operated simultaneously, with Safety factor of 1.25	
		Total power requirement to charge Electric Vehicle in kWh/day	83 KWh/day	
		Availability of power	*Out of 83 KWh/day of power requirement for Charging of Electric Vehicles, 50 kWh/day will*	

			be utilized from solar power generation and remaining 33KWh/day will be utilized from DGVCL	
22.	Fire and Life Safety Measures	**During the construction phase**:		
		Fall Protection	Falling nets,safety belts will be provided.	
		Foot Protection	Safety shoes, gumboot will be provided.	
		Head Protection	Helmets will be provided.	
		Noise Protection	Earmuffs & Earplugs will be provided to the workers.	
		Eye Protection	Safety goggles, face shields will be provided.	
		Ladders and Stairs	Single Pole Ladders, Extension Ladders & Step Ladders will be used.	
		Scaffolds	Jack type double scaffolding (MS)	
		Access to Scaffolds	Fixed ladder, Internal access stairway or built in ladder to access the working platform.	
		Trenching and Excavation	Barricades, Guards will be provided during Trenching and Excavation activities.	
		Electrical Safety	Electrical gloves and footwear will be provided while handling electrical materials.	
		Cranes	Begin hoisting only if nobody is nearby. Ensure there are no obstructions to load movement. Pad sharp edges on the load to avoid rigging damage. Latches on hooks/hoists, and emergency disconnects, are in place and tested periodically. Load Testing Through Approved Agency Periodically.	
		Occupational Noise Exposure	Hearing protection devices will be provided to workers working surrounding noise generation areas	
		Welding and cutting	Eye protection, leather welding gloves and hot molten slag. Low cut shoes and trousers with cuffs or open pockets will be provided.	
		Others	No	
		During the operation phase"	Fire safety measures	The fire protection system will comprise of the following: • Hydrant system - Wet Riser system. • External Hydrant. • Sprinkler system. • Pumps. • Fire Extinguisher

				• Fire Alarm System Mock drills will be done timely to aware the residents. Keep printed board showing important telephone number of fire, ambulance, hospital etc. training to the workers on safety aspects, first aid box at identified places within premise, doctor &ambulance services, provision of PPEs like helmet, gumboot/safety net, safety goggles etc.	
			Capacity of Underground fire water tank	200 KL	
			Capacity of Overhead fire water tank	25 KL	
		Status of fire opinion obtained for the project, submit details	Fire opinion obtained from SMC		
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Vesu fire station (2.57 km, max. 5 minutes time required)		
23.	Rainwater Harvesting (RWH)	Level of the Ground water table:	7.60m		
		RWH/Percolation well details:	Required	Provided	
		No. of RWH tank(s)	2	2	
		Dimensions of RWH tank(s):	2	2 nos. (2m x 2m x 2m)	
		No. of percolations wells:	2	2 nos.	
		Depth of percolations wells:	-	40 m	

		Details on Pre-treatment facilities	-	Screen pit before the percolation well
24.	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2):	-	275
		Area covered by shrubs and bushes (m^2):		included in lawn covered area.
		Lawn covered area (m^2):	-	275
		Total Green Area (m^2):	506.4	550
		Green Area % of plot area:	10.00%	10.86%
		No. of trees and species to be planted:	76	85 Gulmohar, Jambu, Limdo, Gunda, kadam, Rayan, Mahudo, Umro etc
25.	Basic amenities to be provided to construction workers.	All the labours shall be registered as per Building and Other construction Workers (Regulation of Employment and Conditions of Services) Act, 1996 and Building and Other Construction Workers Welfare Cess Act, 1996 Sanitation facilities such separate toilet for male and female, drinking water & tap water including cooler, accommodation, creches, first aid box at every junction, free basic medicine, doctor service on call as well as regular health check-up, adequate PPEs etc shall be provided to construction workers.		
26.	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**	
		Air	**Construction Phase:** ❖ Loading & Transportation in covered Trucks. ❖ Covered shed provided for material unloading activity. ❖ For material handling, closed material handling conveyor system shall be deployed. ❖ Temporary windshield barrier up to height of 10 m shall be provided with help of galvanized sheets and bamboos.	

				❖ All areas for storing C&D wastes / construction material to be demarcated and preferably barricaded particularly those materials that have potential to be dust borne. ❖ Sprinkling of water on roads and in vicinity of storage area. ❖ All access roads shall be Tarred/Concrete. are exceeded. ❖ Adequate sprinkler systems (or water carts) to dampen areas shall be used at all times where practicable and when project trigger levels are exceeded. ❖ During excavation due care shall be taken that the excavator shall not release the sand from higher elevation. **Operation phase** ❖ Silent D.G. set will be used, which wil meet latest emission norms. ❖ D.G set will be stand by or utilized in case of emergency during the power failure. Monthly maintenance work will be carried out.	
			Noise Control	**CONSTRUCTION PHASE:** Acoustic mufflers / enclosures to be provided in large engines/machineries. The mitigation measures will include maintenance of the vehicles and heavy machinery. Provision of personal protective equipment to the workers working in high noise level. **OPERATION PHASE:** Noise from DG set will be controlled by providing an acoustic enclosure. Proper Traffic Signage will be placed at several places within premises	
			Water	**CONSTRUCTION PHASE:** Sewage wastewater shall be disposed through soak pit/septic tank. **OPERATION PHASE:** 40 KLD – MBBR technology Type STP, Area Require -80.00 Sq. m.	

			Solid and hazardous waste management	**CONSTRUCTION PHASE** construction and domestic waste will be sent to C&D management facility of SMC (according to the C&D Waste Management Rule 2016) **OPERATION PHASE:** V. Very small quantity of used oil shall be generated from the DG set. This shall be sent to approved recycler or rousers. VI. STP Sludge will be used a manure for gardening purpose. VII. For Solid waste segregation at source will be adopted and wet waste will be processed within premises using OWC. VIII. Recyclable material shall be disposed as per the practice of SMC.
			Environment monitoring	**AirPollutionMonitoring:** OnceSixmonths **WaterPollutionMonitoring:** Once inevery season **NoiseQualityMonitoring:** Onceina year
			Rainwater	Provision of collection system, treatment,and recharge wells- 2nos.
			Green belt	550 m^2 area is proposed as green belt area. The saplings and plants grown will be taken care and maintained.Adequate amount of water, fertilizers and other required needs will be fulfilled according to the horticultural practices.
			Solar Energy	56 nos of solar panels of 30KW will be installed and will be utilized as mentioned above. These will be maintained according to needs.
			Fire & Safety	**CONSTRUCTION PHASE:** Safety Equipment and PPE's will be provided to workers during Construction Phase. Fall Protection, Safety Net, Ladders and Stairs Scaffolds, Trenching and Excavation Electrical Safety, Welding and Cutting **OPERATION PHASE:** The fire protection system will comprise of the

<table>
<tr><td></td><td></td><td></td><td></td><td colspan="3">following:
Hydrant system - Wet Riser system.
External Hydrant.
Sprinkler system.
Pumps.
Fire Extinguisher
Fire Alarm System
Mock drills will be done timely to aware the residents.Keep printed board showing important telephone number of fire, ambulance, hospital etc. training to the workers on safety aspects, first aid box at identified places within premise, doctor & ambulance services, provision of PPEs like helmet, gumboot/safety net, safety goggles etc.</td><td></td></tr>
<tr><td></td><td></td><td></td><td>CER</td><td>Year</td><td>Amount</td><td>Activity</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td>1st year</td><td>Rs. 20 Lakhs</td><td>Avenue plantation along the bank of Tapti River along with maintenance of 4 year.</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td>2nd year</td><td>Rs. 20 Lakhs</td><td>Installation of plastic bottle vending machine at textile market areas to eliminate usage of plastic bottles and maintain it for 4 years.</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td>3rd year</td><td>Rs. 20 Lakhs</td><td>Install OWC</td><td></td></tr>
</table>

					at Sardar Vegetable Market in association with SMC and maintain it for 4 years
			4th year	Rs. 20.66 Lakhs	Install Solar panels and RO water facility & develop modern sanitation facility for Gavier primary school.
		Amenities/ Occupational health center.	All the basic amenities like housing, drinking water facility, creches, sanitation facility, first aid, health check-ups, insurances, safety will be provided.		
27.	Budgetery provision of Environment Management plan				

Sr. No	**Head**	**Basis for cost estimates**	**Total Capital cost (Rs. In lacs) (Construction and operation phase)**	**Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)**	**Implementation Plan For Capital Expenditure**
1.	Air	Dust Mitigation Measures Sprinkling of water, wind barricading, material handling and storage.	22	1	Within 1st year
		Stack and DG room, its capacity	33	1	

			2	Noise Control	Noise control measures a. Acoustic enclosures will be used to maintain noise levels. b. Machines will be well maintained to avoid noise generation c. Noise generated activities will be restricted to daytime only	6	1	
			3.	Water	40 KLD – MBBR technology Type STP, Area Require - 80.00 Sq. m	50	3	
			4.	Solid and hazardous waste management	50 Kg/Day – Automatic OWC Area required – 30 Sq.m.	5	1	
			5.	Environment monitoring	The recurring cost would be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.	01	0.5	
			6.	Rainwater	Collection system, treatment and recharge well – 2 nos. P. W.C.	6	2.5	
			7.	Green belt	85 nos. Trees and Lawn Area Development	30	3	
			8.	Solar Energy	Roof Top Solar –30 KW; Terrace Space require –180 Sq.m.	80	2	

			9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from SMC and Fire and Safety Equipment and PPE's will be provided to workers during Construction Phase.			150	5
			10.	CER	**Year**	**Amount**	**Activity**	85.66	0
					1st year	Rs. 20 Lakhs	Avenue plantation along the bank of Tapti river along with maintenance of 4 year.		
					2nd year	Rs. 20 Lakhs	Installation of plastic bottle vending machine at textile market areas to elimin		

						ate usage of plastic bottles and maintain it for 4 years.			
				3rd year	Rs. 20 Lakhs	Install OWC at Sardar Vegetable Market in association with SMC and maintain it for 4 years			
		11.	Amenities/ Occupational health center	All the basic amenities like housing, drinking water facility, creches, sanitation facility, first aid, health check-ups, insurances, safety will be provided.			18	3	
		Total					486.66	23	

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA

Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.
2. The project proponent shall construct 2 nos of buildings [2Basement +Hollow plinth +11 floors].
3. The height of the building shall not be higher than 43.00 mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 6 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 21 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 15 KLD and it shall be met through SMC . No ground water shall be tapped during the construction phase.
9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 33KLD, out of which fresh water requirement of 18 KLD shall be met through SMCand the remaining 15 KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.
15. Sewage generation during operation phase shall not exceed 24 KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of SMC.
17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 2 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff, pre-treatment must be done to remove suspended matter.

(iv) AIR:

21. A D. G. set (125 KVA) proposed as backup power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(v) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The

biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the other garbage shall be disposed off properly as per the provisions made by the SMC.

(vi) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like Hydrant system - Wet Riser system. External Hydrant Sprinkler system Pumps. Fire Extinguisher Fire Alarm System, terrace water tanks of 25 KL capacity, underground water tank of 200 KL, shall be provided.
27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
A	2B+G +11	665.01	2	2.00 m	3	1	Less than 15 m
B	2B+G +11	654.34	2	2.00 m	3	1	Less than 15 m

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.
29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.
31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.
32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vii) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 5,729.43m^2 (184CPS) [4,674.25m^2 in Basement + 1,055.18m^2 in Hollow Plinth] shall be provided as proposed.

(viii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & solar street light, 30 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(ix) GREEN BELT:

35. Green belt area of 550m2 comprising of 275m2 tree covered area with 85trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(x) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 486.66Lakhs and Recurring cost of Rs 23Lakhs in Construction Phase& Operation Phase.

(xi) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 85.66 Lakhs as committed before SEAC for activities like Avenue plantation along the bank of Tapti river along with maintenance of 4 year.Installation of plastic bottle vending machine at textile market areas to eliminate usage of plastic bottles and maintain it for 4 years .Install OWC at Sardar Vegetable Market in association with SMC and maintain it for 4 years.

38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.
39. The said activities shall be completed within 3 years from the commencement of the project.
40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.
2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.

3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.
6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.
7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

8	**SIA/GJ/INFRA2/412885/2023**	**Shikshapatri sky light** R. S. NO. 2795/001 (OLD R. S. NO. 637), F.P. NO.: 87/01, T.P.S. NO.: - 09 (UWARSAD-TARAPUR-SARGASAN-VAVOL-VASNA HADMATIYA-RAYSAN), VILLAGE:UWARSAD,TAL.&DIST.:GANDHINAGAR–382421, STATE: - GUJARAT	**EC-New**

- This office has received an application for Environment Clearance of the above project vide proposal no. SIA/GJ/INFRA2/412885/2023 dated: 17/01/2023 .
- This is a proposed Residential cum commercial building construction project having net plot area of 4,071.00 m2, FSI area of 16,159.11 m2 and the proposed built-up area of the project is 28,028.42m2, As the built-up area is >20,000 m2 and <1,50,000 m2, it falls in the category 8(a) of the Schedule of EIA Notification, 2006.
- The project proponent along with their expert / consultant attended the meeting on 27-02-2023.
- The project was appraised based on the information furnished in Form-1, Form-1A & Conceptual Plan, Environment Management Plan and details presented before the Committee.
- Committee deliberated on the Land Possession Documents, Lay out & Scope of Project along with Building Plans, Air Port NOC, OWC, Detailed Designed of STP, Provided Parking, EMP, CER etc.

1. Details of the Application:

1.1. Type of application:	EC-New/~~Expansion/Amendment~~
1.2. Proposal no.	SIA/GJ/INFRA2/412885/2023
1.3. Category of Project :	8(a)
1.4. Date of applicationaccepted by SEAC	17/01/2023
1.5. Documents Submitted by Project Proponent(PP)	Form -1,Form-1-A, Conceptual plan, EMP, NA Permissions, Airport NOC, Firefighting opinion etc.
1.6. TOR No. & Date :	Not applicable as project is categorized as B2
1.7. Technical expert / Environmental Consultant Name :	Ashva Environment Consultancy Mr. Sunil Parmar
1.8. SEAC Meeting No. and Date:	587th& 27th February, 2023

2. Salient features of the project:

Sr No.	Particulars	Details
1.	Proposal No.	SIA/GJ/INFRA2/412885/2023
2.	Name of the project	SHIKSHAPATRI SKY LIGHT
3.	Address of the Site	R. S. NO. 2795/001 (OLD R. S. NO. 637), F.P. NO.: 87/01, T.P.S. NO.: - 09 (UWARSAD-TARAPUR-SARGASAN-VAVOL-VASNA HADMATIYA-RAYSAN), VILLAGE:UWARSAD,TAL.&DIST.:GANDHINAGAR–382421, STATE: - GUJARAT.
4.	Name of Developer	MR. NIMIT PATEL
5.	Estimated Project Cost (Rs. In Crores)	83.06 Crore
6.	Whether construction work has been initiated at site? If yes, details thereof And if No, Date up to which construction has not started.	Not initiated
7.	Details of Undertaking stating current status of construction at site.	Yes
8.	Whether NA permissions of all survey Nos have been obtained, details there of	Yes
9.	Site coordinates	(with all coordinates of the polygon) A 23°11'50.35"N 72°36'46.57"E B 23°11'48.17"N 72°36'45.88"E

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>C</td><td>23°11'48.67"N</td><td>72°36'44.02"E</td></tr>
<tr><td>D</td><td>23°11'51.06"N</td><td>72°36'44.88"E</td></tr>
</table>
</td></tr>
<tr><td>10.</td><td>Project Details</td><td>
• Land / Plot Area (m^2): 4,071.00
• FSI area (m^2): 16,159.11
• Total BUA (m^2): 28,028.42
<table>
<tr><td></td><td>Permissible</td><td>Proposed</td></tr>
<tr><td>FSI Area(m^2)</td><td>16,284.0</td><td>16,159.11</td></tr>
<tr><td>Ground Coverage(m^2)</td><td>--</td><td>1,689.17</td></tr>
<tr><td>Common Plot Area(m^2)</td><td>407.0</td><td>416.19</td></tr>
<tr><td>Max. building height(m)</td><td>--</td><td>50.92</td></tr>
</table>
</td></tr>
<tr><td>11.</td><td>Building Details</td><td>
<table>
<tr><td>No. of Buildings:</td><td>1 Nos</td></tr>
<tr><td>No. of Blocks:</td><td>3 Nos</td></tr>
<tr><td>Scope of buildings/blocks:</td><td>Type – A, B & C: 2ndBasement + 1st Basement + Hollow Plinth + Ground floor + 1st floor to 13 floors</td></tr>
<tr><td>No. & size of Residential Units:</td><td>66</td></tr>
<tr><td>No. & type of Commercial Units:</td><td>68</td></tr>
<tr><td>Details of amenities if any:</td><td>--</td></tr>
</table>
</td></tr>
<tr><td>12.</td><td>No. of expected residents / users/</td><td>330 nos. residential users& 204 Nos. Commercial users & 75 Nos. Visitor</td></tr>
<tr><td>13.</td><td>Water & waste water details during construction phase and operation phase</td><td>
<table>
<tr><td colspan="2">CONSTRUCTION PHASE</td></tr>
<tr><td>Water requirement (KL/day):</td><td>10.0</td></tr>
<tr><td>Source of water/Supply from-</td><td>Water supply from GMC Gandhinagar</td></tr>
<tr><td>Waste water generation quantity (KL/day):</td><td>1.80</td></tr>
<tr><td>Mode of disposal:</td><td>disposal into underground drainage of GMC</td></tr>
<tr><td>Details of reuse of water, if any:</td><td>Washing water of construction equipment will be reused for curing. (0.5)</td></tr>
<tr><td colspan="2">OPERATION PHASE</td></tr>
</table>
</td></tr>
</table>

		Total water Consumption (KL/day):	56.5
		Fresh water requirement (KL/day):	26.91
		Recycle of treated w/w, KL	29.59 KLD
		A. Gardening area, 416.19 m2	1.66 KLD
		B. Flushing	27.93 KLD
		C. Sprinklers (Nos in premises, with pipeline details)	41 Nos.
		D. Storage tank details for storage of treated domestic waste water in premises	50 KL (2 Nos.)
		Source of water:	Water supply from GMC Gandhinagar.
		Total Waste water generation quantity (KL/day):	42.98
		Treated Waste water to be reused	29.59 KLD
		Quantity and type (treated/untreated) of water to be discharged:	Total Domestic wastewater will be 42.98 KLD. Whole wastewater will be allowed in Sewage Treatment Plant (STP). Out of which, 29.59 KLD treated wastewater will be reused for gardening, toilet flushing & Car washing. Remaining i.e. 13.39 KLD treated wastewater will be disposed

			through GMC drainage.
		In case of STP provision, capacity of STP:	Yes 90 KLD
		STP Technology:	MBBR Type
		Provision of dual plumbing system (Yes/No):	Yes
14.	Status of water supply and drainage line and its permission/ acknowledgement details	GMC Water Supply & GMC drainage lines	
15.	Solid waste Management	**Construction Phase**:	

	Generation (m^3)	Quantity to be reused (m^3)	Mode of Disposal / Reuse
Top Soil	2030	2030	Excavated surplus earth and construction debris will be reuse for fillingthe low lying areas in the project premises. Excavated Earth will also use in developme nt of green belt.
Other excavated earth	12824.0	1026	
Construction debris	142	142	
Steel scrap	10.0 MT	--	Disposal to recycler
Discarded packing materials	10.0 MT	--	Disposal to recycler
Others	--	--	--

Operation Phase:

Type of waste	Generation Quantity (Kg/day)	Mode of waste collection	Mode of Disposal / Reuse

		Dry waste	77	Adequate number of collection bins, separately for biodegradable and non-biodegradable waste will be provided as per Municipal Solid Waste (Management and Handling) Rule, 2000.	Through door-to-door waste collection system of GMC.
		Wet waste	50		Collected, treated in organic waste converter located within project premises and converted in to manure. Manure will be either reused within premises or sold.
		STP Sludge	10		STP sludge will be collected & reuse as manure within premises for development of Greenbelt. Surplus sludge will be sold to Farmers.
		Details of segregation if to be done:		The solid wastes generated will be segregated into biodegradable and non-biodegradable wastes at source (from each unit/Flat).	

		Capacity and no. of community bins to be placed within premises:	For Dry waste: 80 Kg; 7 nos. of Bins. For Wet waste: 80 Kg; 13 Nos. of Bins.
		Landfill site where waste will be ultimately disposed by local authority:	M.S.W will be finally transported to the disposal site at GMC.

16. Details on staircase:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of stair case	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Type A, B & C	2nd Basement + 1st Basement + H.P + Ground Floor + 1st to 13th Floor	1376.99	03	2.0	06	03	22

17.

Parking Details	As below:	Sq. mtrs.	CPS
Total parking area requirement for the project as per GDCR:		4613.67	-
Parking area requirement for residential units as per GDCR:		2942.09	-
Parking area requirement for commercial units as per GDCR:		1671.58	-
Parking area requirement as per GDCR for (specify in case of any other):		NA	-
Total number of CPS requirement for the project as per NBC		-	94
Total parking area provided (m^2) & No. of CPS:		8565.05	279
Parking area provided in basement (m^2) & No. of CPS:		5970.82	186

	Parking area provided in hollow plinth (m^2) & No. of CPS:			1184.69	42
	Parking area provided as open surface (m^2) & No. of CPS:			151.44	6
	Number of Visitor parking provided in the project (No. of CPS):			1258.1	45
18.	Traffic Management	Width of adjacent public roads:	18 m		
		Number of Entry & Exit provided on approach road/s:	1 Nos. Entry, 1 Nos. Exit		
		Number of Entry and Exit ramp tothe basement:	1 Nos. Entry, 1 Nos. Exit		
		Width of Entry & Exit provided on approach road/s:	9.0 m & 6.0 m		
		Width of the Roads:	Permissible	Proposed	
		Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation) i.e peripheral width:	6.0 m	6.0 m	
		Width of all internal roads:	6.0 m	9.0 &6.0 m	
19.	Details of Green Building measures proposed.	Wall panel fabrics with recycled content. Eco-friendly materials i.e. Fly Ash Bricks, Aerated Blocks & Paving Blocks will be used. Low-VOC emitting and refurbished or bio-harvested renewable material content for flooring. Dedicated exhaust systems in identified areas. Use of solar energy in landscape lighting. Rain water harvesting & ground water recharge. Greenbelt Development.			
20.	Energy Requirement, Source and Conservation	Power supply:	U.G.V.C.L		
		Maximum demand: Connected load: Source:	1120 KW 1200 KW U.G.V.C.L		
		Energy saving measures:	LED lighting fixtures in the common areas.		
		Power Generation:	Required	Provided	
		Solar power generation (Capacity in KW):	60 KW	69 KW	
		No. of solar panels	120 Nos. panels	138 Nos. panels	
		Capacity of each Solar cell	500 W	500 W	
		Total Solar Power Utilization	Total Solar Power Utilization for Indoor and Outdoor Lighting	30 KW	

			Total Solar Power Utilization for Water Pump	20 KW
			Total Solar Power Utilization for Electric Vehicles Charging Station	12 KW
			Other usage	7 KW
		DG Sets: No. and capacity of the DG sets: Fuel & its quantity:	1 x 100 KVA Diesel- 30 liter/hr.	1 x 500 KVA Diesel- 30 liter/hr.
21.	Electric vehicle charging provision	Total no. of EV Charging points provided	56 Nos.	
		Parking area designated for EV Charging parking	Electric car charging stations will be provided for 56 of the required CPS	
		Total proposed EV charging capacity	56 Cars	
		Total power requirement to charge Electric Vehicle in kWh/day	224kWh/day	
		Availability of power	Out of 224 KWh/day of power requirement for Charging of Electric Vehicles, 12 kWh/day will be utilized from solar power generation and remaining 212 kWh/day will be utilized from DGVCL.	
22.	Fire and Life Safety Measures	**During the construction phase**:	First aid box, free medicines, doctor service, PPEs, etc.	
		Fall Protection	– Perimeter protection such as guardrails and toe rails, – Safety Belts for working at height – Personal protective equipment (PPE), a safety monitoring system, – Fall protection plan.. – Safety nets will be installed – The PPE standard should cover occupational foot, head, hearing,	

			and eye protection.
		Foot Protection	– Workers and visitors should not be allowed on a construction site without safety boots.
		Head Protection	– Safety Helmet, safety belts, safety nets for work at heights, – Proper housekeeping,
		Noise Protection	– Provision of acoustic enclosure for DG Set. – PPEs i.e. hearing protection devices (ear plugs, ear muffs, canal caps)
		Eye Protection	– Eye protection (safety glasses and goggles, face shields and welding helmets) must be adequate and reasonably comfortable.
		Ladders and Stairs	– To inspect and maintain all ladders and temporary/portable steps to ensure that they are in good working condition. – Portable ladders be provided with grab rails and be secured against movement while in use. – All ladders must be used only on stable and level surfaces unless secured to prevent accidental movement. – Ladders must not be used on slippery surfaces unless secured or provided with slip resistant feet to prevent accidental movement. – The Contractor should provide a ladder (or stairway) at all work points of access where there is a break in elevation of 0.5 m or more. – When there is only one point of access between levels, it must be kept clear to permit free passage by workers. If free passage becomes restricted, a second point of access must be provided and used. At all times, at least one point of access must be kept clear.

		Scaffolds	Access to Scaffolds
		Access to Scaffolds	– Access to and between scaffold platforms more than 0.6 m above or below the point of access will be made by portable/attachable ladders or ramps. – Employees must never use makeshift devices, such as boxes and barrels, to increase the scaffold platform working level height.
		Trenching and Excavation	– The area around the trench/excavation would be kept clear of surface encumbrances. Water should not be allowed to accumulate in the excavation. Adjacent structures would be shored in accordance with the design documents to prevent collapse. – Guardrails or some other means of protecting people from falling into the trench/excavation would be present. – The trench or excavation would be shored or sloped to prevent cave-ins.
		Electrical Safety	– If work has to be done near an overhead power line, the line must be de-energized and grounded before work is started. – A licensed electrician would have completed all temporary wiring and electrical installations required for construction activities. – Fuses and circuit breakers would be used to protect motherboards.
		Cranes	– A competent person has been designated to supervise activities that require the use of cranes. Cranes would not be operated near any power lines. – All picks would be carefully planned to ensure that the crane

			adequately hoist the load. – The hoisting signals would be posted on the exterior of the crane.
		Occupational Noise Exposure	– Implement engineering controls to reduce noise levels. – Provision of hearing protection to employees that are exposed to noise levels above the permissible limit – Acoustic Enclosure for high noise generating machines like D G Set
		Welding and Cutting	– Trained worker in hot work procedures. – Adequate ventilation to reduce the build-up of metal fume. – Personal protective equipment (i.e., welding helmet, burning goggles, face shield, welding gloves, and apron). – There would be a fire extinguisher present at all welding and burning activities. – Extinguishers would also be placed at locations where slag and sparks may fall. – Oxygen and flammable gas bottles are separated by at least 7 m when not in use. – Signs and symbols would be visible – Signage for traffic control, including directional signs, is applicable – Danger signs are posted at all immediate hazards (i.e. Danger: Open Hole). – Caution signs are posted at all potential hazards (i.e. Caution: Construction Area, Caution: Buried Cable). – Combustible scrap and debris (wood, clearing/grubbing material) would be removed from the site daily or should be securely stored in covered containers.

			– Spill prevention control and countermeasure plan that limits the risk of releases of oil or hazardous materials to the environment.	
		Others	--	
		During the operation phase"	Fire safety measures	During the operation phase (including capacity of underground water tank and terrace water tank capacity) : Fire extinguishers on each floor, Hose Reel, Wet Riser, Yard Hydrant, manually operated electric fire alarm system Automatic Sprinkler System, Automatic Detection and Alarm System
			Capacity of Underground fire water tank	1,50,000 Lit
			Capacity of Overhead fire water tank	45,000 Lit
		Status of fire opinion obtained for the project, submit details	Yes	
		Nearest fire station, distance & time required for the fire tender to reach at the project site :	Gandhinagar Fire Station @ 10.20km and time Required for the fire tender to reach at the project site will be approx. 19 min.	
23.	Rain Water Harvesting (RWH)	Level of the Ground water table:	50 ft	
		RWH/Percolation well details:	Required	Provided
		No. of RWH tank(s)	2 nos.	2 nos.

		Dimensions of RWH tank(s) :	2.0X2.0X2.0 m^3	2.0X2.0X2 .5 m^3
		No. of percolations wells :	2 nos.	2 nos.
		Depth of percolations wells :	40m depth	40m depth
		Details on Pre-treatment facilities	Gravity filter MOC: PE	Gravity filter MOC: PE
24.	Green area details	Details:	Required as per prevailing Laws/policy/rule	Provided
		Tree covered area (m^2) :	Building unit having area of more than 100 m2 shall be provided with minimum 3 trees for every 200 m2 area.	200.0
		Area covered by shrubs and bushes (m^2):	-	--
		Lawn covered area (m^2):	-	216.19
		Total Green Area (m^2):	407.10	416.19
		Green Area % of plot area:	10 %	10.2 %
		No. of trees and species to be planted:	-	102 nos. of trees like Asopalav, Gulmohor, Palm, Neem, Badam, Amla, Khajuri, etc
25.	Basic amenities to be provided to construction workers.	Drinking water & tap water, sanitation facilities, first aid box, free medicines, doctor service, PPEs, rooms & welfare facilities as per Building and Other Construction Workers Rules.		
26.	Environment Management Plan	**Head**	**Mitigation measures proposed, with facility details:**	
		Air	Dust Mitigation Measures (Dust suppression by spraying of water and Peripheral barricading of 3m	

			height) & providing adequate height of the stack, ladder and platform, DG room.
		Noise Control	Provision of PPEs, Lubrication in Construction Machinery Provision of acoustic enclosures and vibration sheet
		Water	Primary, secondary & tertiary treatmentMBBR Type STP
		Solid and hazardous waste management	The biodegradable waste will be collected in bins and Onsite waste treatment system (OWC) will be installed for handling and management of the organic waste generated. Organic waste will be converted to manure by on site organic waste convertor and manure will be used in gardening and plantation.
		Environment monitoring	The recurring cost would be incurred on hiring of consult- ants and payment of various statutory fees to regulatory agencies.
		Rain water	Collection system, treatment and recharge well 02 nos. P.W.C. & Flood Water Mitigation Measures.
		Green belt	Trees and Lawn area development (Land levelling, Plantation, Irrigation System Installation)
		Solar Energy	Roof Top Solar – 69 KW; Terrace Space require – 688.50Sq. m.
		Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from GMC and Fire and Safety Equipment and PPE's will be provided to workers during Construction Phase. Fall Protection, Safety Net , Ladders and Stairs Scaffolds, Trenching and Excavation Electrical Safety, Welding and Cutting
		CER	Provision of Solar Paneled Street lights and Solar trees installation at nearby roads and public utilities & public gardens & Providing & maintaining hi tech public toilet with automatic flushing facility & Rain water harvesting ponds,

			ground water recharge Pits and Water conservation awareness programs in near by Lavarpur and Prantiya and Uvarsad and Galudan and Vir Talavadi & Vajapura.
		Amenities/ Occupational health center.	Providing of amenities facility for worker (Sanitation, drinking water etc) Appoint approved contractor for Registration of Workers • Insurance of Workers • Periodically Health Check up • Fix hours for normal working day • Maintenance of registers and records • Drinking water facility would be provided • Toilets and urinals would be provided. During construction phase workers will be provided safety measures as well as occupational health rules will be implemented. Regular health check-up camps will be organized
27.	Budgetary provision of Environment Management plan		

Sr. No.	**Head**	**Basis for cost estimates**	**Total Capital cost (Rs. In lacs) (Construction and operation phase)**	**Total Recurring cost per annum (Rs. in lacs) (Construction and operation phase)**	**Implementation Plan For Capital Expenditure**
1.	Air	Dust Mitigation Measures	0.5	1.50	The whole project will be completed within around
		Stack and DG room	5.0	1.0	
2	Noise Control	Noise Control measures including engineering controls	5.00	1.00	
3.	Water	90 KLD -MBAR Type STP, Area Require 60 Sq. m.,	30.0	3.0	

4.	Solid and hazardous waste management	50 Kg/Day – Automatic OWC Area require –30 Sq.m.	15.0	2.0	coming four years. E.M.P. Units installation work will be completed parallelly construction of the project.
5.	Environment monitoring	The recurring cost would be incurred on hiring of consult-ants and payment of various statutory fees to regulatory agencies.	0.50	0.10	
6.	Rain water	Collection system, treatment and recharge well – 2 nos. P. W.C.	15.0	1.50	
7.	Green belt	102 nos. Trees and Lawn Area Development	1.5	0.65	
8.	Solar Energy	Roof Top Solar – 69 KW; Terrace Space require – 688.50 Sq.m.	28.0	3.20	
9.	Fire & Safety	Provide Fire Fighting Systems as per Fire Opinion from SMC and Fire and Safety Equipment and PPE's will be provided to workers during Construction Phase.	28.20	2.90	
10.	CER	Provision of Solar Paneled Street lights and Solar trees installation at nearby roads and public utilities & public gardens &Providing& maintaining hi tech toilets in nearby village, Sargasan and Tarapur and Kudasa and Uvarsad and Dholakuva. Year wise budget 2023 – 2024 – 60.0 lacs 2024- 2025 - 80.0 lacs 2025 – 2026 – 26.12 Lacs Total = 166.12 lacs	166.12	--	
11	EV Charger	Cost of EV charger facilities	40.0	15.0	
12.	Amenities	Providing of amenities facility for worker	10.0	0.0	
13	Occupational health and safety	Implementation Occupational health and safety procedures to workers during Construction Phase	10.0	0.0	

Total	**354.82**	**31.85**	

- Committee deliberated on the following:

  - ✓ PP were asked to submit Notarised Undertaking that No occupancy shall be given without obtaining prior drainage connection.
  - ✓ PP replied vide email dated 01-03-2023 and submitted the undertaking stating that occupancy will not be given without obtaining prior drainage connection from GMC.

- The said submission of the project proponent was considered by the Committee and the submitted documents were found satisfactory, it was unanimously decided to recommend the project to SEIAA Gujarat for granting Environment Clearance subject to the strict compliance of the following project specific conditions as well as the standard conditions finalized during the meeting of SEAC held on 02/08/2017 and approved during the meeting of SEIAA held on 08/09/2017 The Building Construction projects falling under project activity no. 8(a) as per the schedule of the EIA Notification 2006:

D-1. Project Specific Conditions for Environment Clearance:

a) Preconstruction Phase

1. Mitigation of flood measures shall be undertaken. Height of the plinth and ramps will be increased so that flood water does not enter basement.
2. The project proponent shall construct 1 nos of buildings [2 Basement + H.P/Ground floor + 13 Floors].
3. The height of the building shall not be higher than 50.92 mts.
4. The Peripheral margin shall be 6 mts and Internal roads shall be 6-9 mts wide.
5. Separate Entries and Exits shall be provided to the project on the approach road.
6. The Project Proponent shall make provision of Electric vehicle charging in parking area as mentioned at the Sr no 21 of the Salient features of the project.
7. Project proponent shall explore possibilities to reuse the treated waste water for gardening and floor washing.

b) Construction Phase:

(i) WATER:

8. Fresh water requirement during the construction phase shall not exceed 10.0 KLD and it shall be

met through GMC . No ground water shall be tapped during the construction phase.

9. Sewage generated during the construction phase shall be disposed off through Soak Pit.
10. Explore possibilities of provision of mobile toilets in construction phase.

(ii) HEALTH & SAFETY:

11. Project Proponent shall obtain Fire opinion/provisional fire NOC from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
12. The project proponent shall obtain registration of the establishment under the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and shall comply with the provisions of the Act for the safety, health and welfare of construction workers.
13. The project proponent shall obtain registration of the construction workers as beneficiaries with the Gujarat Building and Other Construction Workers Welfare Board.

c) Operation Phase:

(iii) WATER:

14. Total water requirement during the operation phase shall not exceed 56.5KLD, out of which fresh water requirement of 26.91KLD shall be met through GMC and the remaining 29.59 KLD of water requirement shall be met through treated sewage. No ground water shall be tapped during the operation phase. Metering of the water shall be done and its records shall be maintained.
15. Sewage generation during operation phase shall not exceed 42.98KLD which shall be treated in the proposed onsite Sewage Treatment Plant.
16. The unit shall install and efficiently operate STP of adequate capacity for treating the sewage to be generated during operation phase to achieve the GPCB norms at the STP outlet. Treated sewage conforming to GPCB norms shall be utilized within premises for gardening & flushing purpose at the maximum extent possible. Only remaining quantity of treated sewage shall be disposed off through drainage line of GMC .
17. A proper logbook of STP operation and also showing the quantity of treated sewage utilization within premises & quantity of treated sewage discharged into the drainage line shall be maintained and furnished to the GPCB from time to time.
18. Dual plumbing system with separate tanks and lines shall be provided for utilization of treated sewage for flushing.
19. No bore well shall be constructed and existing bore well/s, if any, shall be either sealed or converted into the recharge well.
20. Rain water harvesting from rooftop and paved areas and ground water recharge through 2 nos. of percolation wells shall be carried out as per the details submitted. Before recharging the runoff,

pre-treatment must be done to remove suspended matter.

(iv) AIR:

21. A D. G. set (500KVA) proposed as backup power shall be of enclosed type and confirm to prescribe standards under EPA rules. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
22. The exhaust of the D. G. Set shall be at least 3 m above roof top.
23. The gaseous emissions from the D.G. Sets shall conform to the standards prescribed under EPA rules as amended from time to time. At no time, the emission levels shall go beyond the stipulated standards.

(v) SOLIDWASTE:

24. The solid waste generated shall be properly collected and segregated at source. The biodegradable waste shall be converted into useful end product by treating it into the proposed onsite Organic Waste Convertor and the recyclable waste shall be sold to vendors whereas the other garbage shall be disposed off properly as per the provisions made by the GMC .

(vi) SAFETY AND WELFARE:

25. Project Proponent shall obtain fire safety certificate / Fire No-Objection Certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
26. Fire fighting facilities like Fire extinguishers on each floor, Hose Reel, Wet Riser, Yard Hydrant, manually operated electric fire alarm system Automatic Sprinkler System, Automatic Detection and Alarm System , terrace water tanks of 45 KL capacity, underground water tank of 150 KL, etcshall be provided.
27. Staircase shall be provided:

Type & no. of buildings	No. of floors	Area for each Floor (m^2)	No. of staircase	Width of the staircase (m)	Total No of Lifts	No of fire lift	Travel distance (m)
Type A, B & C	2^{nd} Basement + 1^{st} Basement + H.P + Ground Floor + 1^{st} to 13^{th} Floor	1376.99	03	2.0	06	03	22

28. All the staircases shall open out at ground level from the highest point of building [with access from each floor] for emergency evacuation.

29. Provision for adequate air changes per hour in the basement shall be made so as to avoid build-up of CO in the area.
30. Car park exhaust system equipped with CO (Carbon Monoxide) sensor shall be provided to ensure operation of exhaust fans as CO concentration levels.
31. Clear peripheral margin space of adequate width, in accordance with the concerned local bye-laws, shall be provided for unobstructed & easy movement of vehicles in case of emergency.
32. Sanitation facilities, drinking water & tap water, sewage disposal facility, first aid box, free medicines, doctor service, adequate PPEs etc. shall be provided for workers.

(vii) PARKING / TRAFFIC CONGESTION:

33. Minimum parking space of 8565.05m^2 (279CPS) [5970.82m^2 in Basement + 1184.69 m^2 in Hollow Plinth + 151.44m^2 in open area] shall be provided as proposed.

(viii) ENERGY CONSERVATION:

34. Energy conservation measures viz. maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, solar lights in open & solar street light, 69 KW solar power generation, use of aerated blocks & RMC, use of LED lighting fixtures and low voltage lighting, roof-top thermal insulation etc. shall be implemented as proposed.

(ix) GREEN BELT:

35. Green belt area of 416.19 m2 comprising of 200.0 m2 tree covered area with 102trees within premises shall be developed as proposed. The other open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous tree species.

(x) BUDGETARY ALLOCATION FOR EMP:

36. The Project proponent shall allot budget for Capital cost Rs. 354.82 Lakhs and Recurring cost of Rs 31.85 Lakhs in Construction Phase& Operation Phase.

(xi) CORPORATE ENVIRONMENTAL RESPONSIBILITY:

37. The project proponent shall allocate the separate fund of Rs. 166.12 Lakhs as committed before SEAC for activities like Provision of Solar Paneled Street lights and Solar trees installation at nearby roads and public utilities & public gardens &Providing& maintaining hi tech toilets in nearby village, Sargasan and Tarapur and Kudasa and Uvarsad and Dholakuva.
38. Activities proposed under Corporate Environment Responsibility (CER) shall be part of Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020.
39. The said activities shall be completed within 3 years from the commencement of the project.
40. The CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring

report shall be posted on the website of the project proponent.

General Conditions.

Compliance of Environment Clearance/ Inspection / Reporting/ Administration/ Appeal

1. Project proponent shall inform to all the concerned authorities including Municipal Corporation and district collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the environment clearance order accorded. Copy of EC shall be display at the site in prominent area for the public.
2. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
3. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
4. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
5. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the environment clearance accorded.
6. Any person including the project proponent affected by this environment clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of environment clearance as prescribe under section 16 of National Green Tribunal Act 2010.
7. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses a. msseiaagj@gmail.com&seacgujarat@gmail.com

The meeting ended with a vote of thanks to the chair.

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Minutes approved by:

1.	Shri Akshay Kumar Saxena, Chairman, SEAC	
2.	Dr. S. C. Pant, Vice Chairman, SEAC	

3.	Shri D. C. Chaudhari, Member, SEAC	
4.	Shri J. K. Vyas, Member, SEAC	
5.	Shri Anand Zinzala, Member, SEAC	
6.	Shri B. M. Tailor, Member, SEAC	
7.	Shri D.M.Thaker, Secretary,SEAC	