



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

Executive Engineer, Ahmedabad Urban Development Authority, Jatin N. Kapadiya

Date: 02-12-2020

INI DESIGN STUDIO, 71/72 Titanium,
Corporate Road, Satellite, Ahmedabad -
380015, (Mo): 9426170828, 9825019983

Valid Upto: 30-11-2028

No Objection Certificate for Height Clearance

1. This NOC is issued by Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations.

2. This office has no objection to the construction of the proposed structure as per the following details:

NOC ID :	AHME/WEST/B/110420/508629
Applicant Name*	Jagdish B Patel
Site Address*	T. P. S. No. 4/A (Sanand), F. P. No. 31, Survey No. 159, 160, 161, 165, At Sanand, Taluka Sanand, District Ahmedabad, At Sanand Ta Sanand Dist Ahmedabad, Ahmedabad, Gujarat
Site Coordinates*	23 00 24.76N 72 21 06.68E, 23 00 28.88N 72 21 09.20E, 23 00 20.98N 72 21 11.16E, 23 00 26.82N 72 21 13.93E
Site Elevation in mtrs AMSL as submitted by Applicant*	37.63 M
Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL)	137.63 M

*As provided by applicant

3. This NOC is subject to the terms and conditions as given below:

a. Permissible Top elevation has been issued on the basis of Site coordinates and Site Elevation submitted by Applicant. AAI neither owns the responsibility nor authenticates the correctness of the site coordinates & site elevation provided by the applicant. If at any stage it is established that the actual data is different, this NOC will stand null and void and action will be taken as per law. The office in-charge of the concerned aerodrome may initiate action under the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994"

b. The Site coordinates as provided by the applicant in the NOC application has been plotted on the street view map and satellite map as shown in ANNEXURE. Applicant/Owner to ensure that the plotted coordinates corresponds to his/her site. In case of any discrepancy, Designated Officer shall be requested for cancellation of the NOC.

c. Airport operator or his designated representative may visit the site (with prior coordination with applicant or owner) to ensure that NOC terms & conditions are complied with.

d. The Structure height (including any superstructure) shall be calculated by subtracting the Site elevation in AMSL from the Permissible Top Elevation in AMSL i.e. Maximum Structure Height = Permissible Top Elevation minus (-) Site Elevation.

e. The issue of the 'NOC' is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994.



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

- f. No radio/TV Antenna, lighting arresters, staircase, Mumtee, Overhead water tank and attachments of fixtures of any kind shall project above the Permissible Top Elevation of 137.63 M (AMSL), as indicated in para 2.
- g. Use of oil, electric or any other fuel which does not create smoke hazard for flight operations is obligatory, within 8 KM of the Aerodrome Reference Point.
- h. The certificate is valid for a period of 8 years from the date of its issue. One time revalidation without assessment may be allowed, provided construction work has commenced, subject to the condition that such request shall be made within the validity period of the NOC and the delay is due to circumstances which are beyond the control of the developer.
- i. No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time, during or after the construction of the building. No activity shall be allowed which may affect the safe operations of flights
- j. The applicant will not complain/claim compensation against aircraft noise, vibrations, damages etc. caused by aircraft operations at or in the vicinity of the airport.
- k. Day markings & night lighting with secondary power supply shall be provided as per the guidelines specified in chapter 6 and appendix 6 of Civil Aviation Requirement Series B Part I Section 4, available on DGCA India website: www.dgca.nic.in
- l. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This NOC for height clearances is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.
- m. This NOCID has been assessed w.r.t Ahmedabad Airport(s). NOC has been issued w.r.t. the AAI aerodromes and other licensed civil aerodromes as listed in Schedule-III, Schedule-IV(Part-1), Schedule-IV(Part-2;RCS Airports Only) and Schedule-VII of GSR751(E).
- n. Applicant needs to seek separate NOC from Defence, if the site lies within the jurisdiction of Defence Aerodromes as listed in Schedule-V of GSR751(E). As per Rule 13 of GSR751(E), applicants also need to seek NOC from the concerned State Govt. for sites which lies in the jurisdiction of unlicensed aerodromes as listed in Schedule-IV (Part-2:other than RCS airports) of GSR751(E) .
- o. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.
- p. In case of any dispute w.r.t site elevation and/or AGL height, top elevation in AMSL shall prevail.

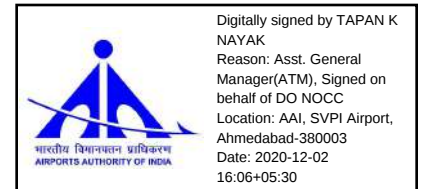
Chairman NOC Committee

Region Name: WEST

Address: General Manager (ATM) Airports
Authority of India, SVP International
Airport Ahmedabad-380003(Gujrat)

Email ID: vaah.noc@aai.aero

Contact No: 079-22858111

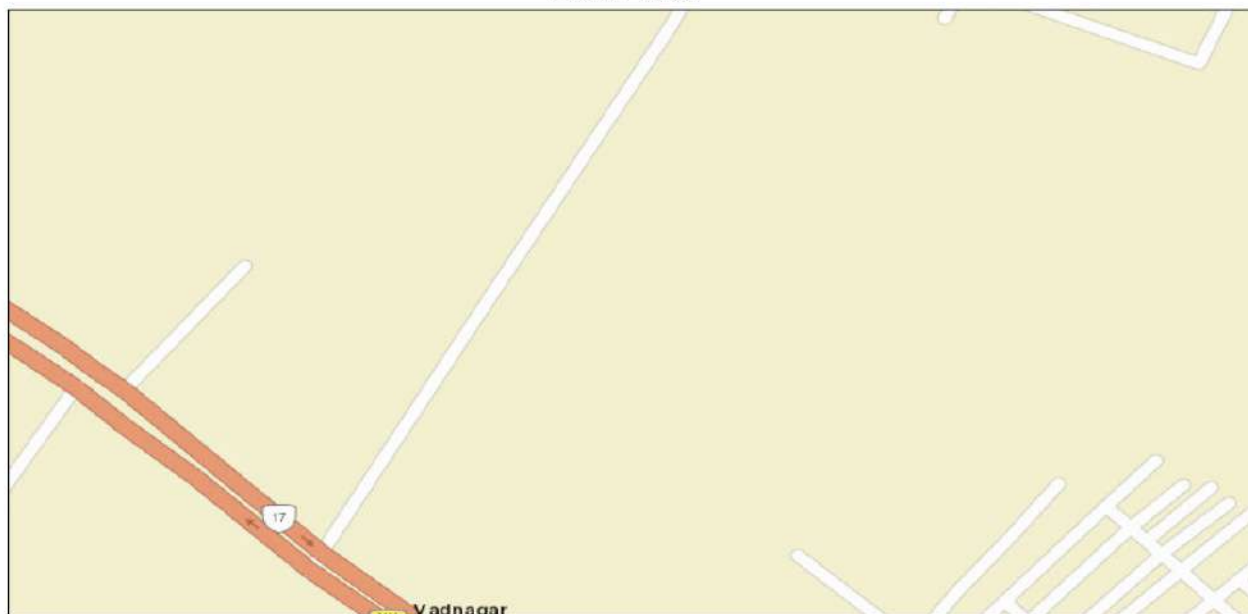


Name / Designation / Sign with Date	
Prepared By :	
Verified By :	

Distance From Nearest Airport And Bearing

Airport Name	Distance (Meters) from Nearest ARP	Bearing (Degree) from Nearest ARP
Ahmedabad	28826.58	256.8
NOCID	AHME/WEST/B/110420/508629	

Street View

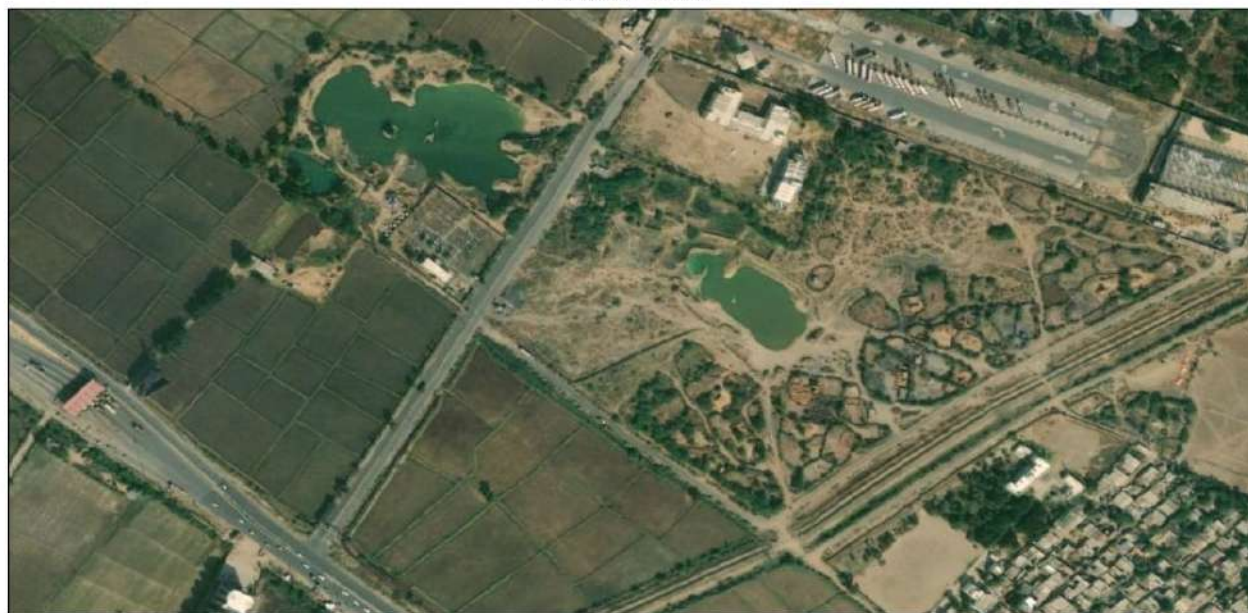


November 4, 2020

0 0.03 0.06 0.11 mi
0 0.04 0.09 0.17 km
1:3,600
Sources: Esri, HERE, Garmin, USGS, Infarmap, DECEMBER 2019, NRCAN, Esri Japan, METI, Swis, China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

AXI

Satellite View



November 4, 2020

0 0.03 0.06 0.11 mi
0 0.04 0.09 0.17 km
1:3,600
Sources: Esri, Microsoft, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Agenda No. : _____
File No. : **SIA/GJ/147508/2021**
Proposal No. : **SIA/GJ/MIS/226567/2021**
Date : **___.___.2021**

Residential & Commercial Project of Affordable Housing Development for EWS at Sanand, Ahmedabad by Ahmedabad Urban Development Authority (AUDA)

Project Name:

Environmental Clearance for proposed Building Construction Project of Affordable Housing development for EWS at Survey Nos. 159, 160, 161, 165, T.P.S. No. 4/A, F.P. No. 31, Village & Taluka Sanand, District Ahmedabad, Gujarat by Ahmedabad Urban Development Authority (AUDA)

Activity No. and Category (as per Schedule of EIA Notification, 2006):

8 (a) Building and Construction project, Category "B"

Environmental Consultant:

Kadam Environmental Consultants (Certificate No. NABET/EIA/1922/RA 0138 valid till 25th May, 2022)

- **Ahmedabad Urban Development Authority (AUDA) has proposed a Residential cum commercial building construction project of Affordable Housing Development for EWS at Survey Nos. 159, 160, 161, 165, Final Plot No. 31, T.P.S. No. 4/A, Village & Taluka Sanand, District Ahmedabad, Gujarat.**
- **Total plot area of the proposed project is 25,186.00 m² with proposed FSI area of 36746.07 m² & total built-up area of 61,355.61 m².**
- **As the built-up area is $> 20,000 \text{ m}^2$ & $< 1,50,000 \text{ m}^2$, it falls in project/activity 8(a) and classified as Category 'B' project as per schedule of EIA Notification, 2006 as amended till date.**
- **Estimated total cost of the proposed project is approx. INR 84 Crore.**
- **The total land area as final plot no. 31 falls under Town Planning Scheme no. 4/A of AUDA for the housing facility for Economically Weaker Section (EWS) and same will be developed under EWS housing scheme as Residential cum Commercial buildings.**

CHRONOLOGY OF THE PROJECT EC PROCESS TILL DATE



Sr. No.	Description	Date
1	Online EC Application submission	27.08.2021
2	Accepted by SEIAA & forwarded to SEAC	29.08.2021
3	EDS by SEAC	24.09.2021
3	EDS Submission to SEAC	25.11.2021 (through E-mail) 02.12.2021 (online submission)
3	Accepted by SEAC, Gujarat	xxx
4	Hardcopy submission to SEAC, Gujarat	xxx
5	EC presentation to SEAC, Gujarat	xxx



PROJECT SITE PHOTOGRAPHS

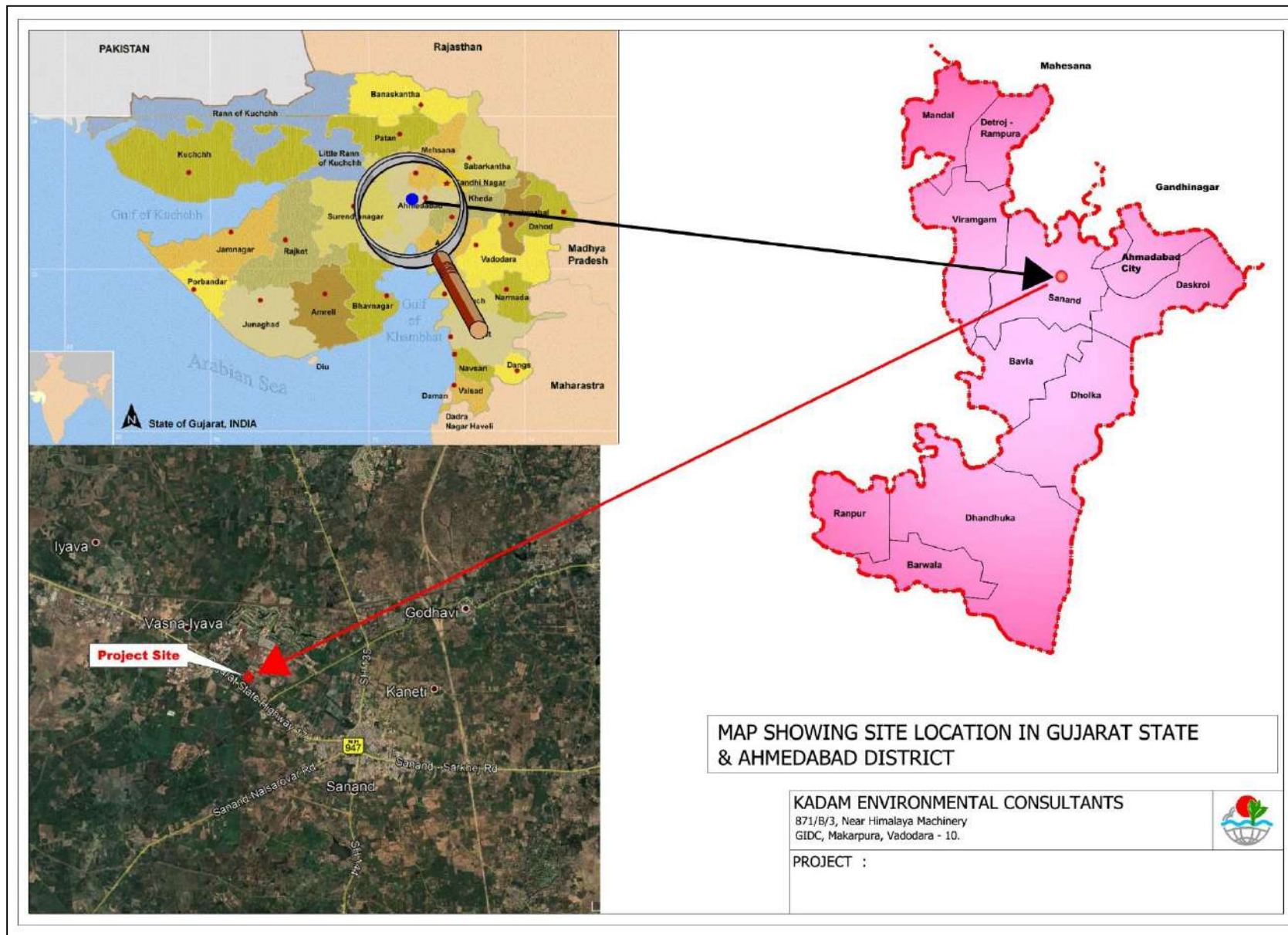


A. GENERAL INFORMATION

a.	Type of Project	Residential cum Commercial Building Construction Project (Affordable Housing Development for EWS under Town planning scheme of AUDA)
b.	Project Location	Survey Nos. 159, 160, 161, 165, Final Plot No. 31, T.P.S. No. 4/A, Village & Taluka Sanand, District Ahmedabad, Gujarat

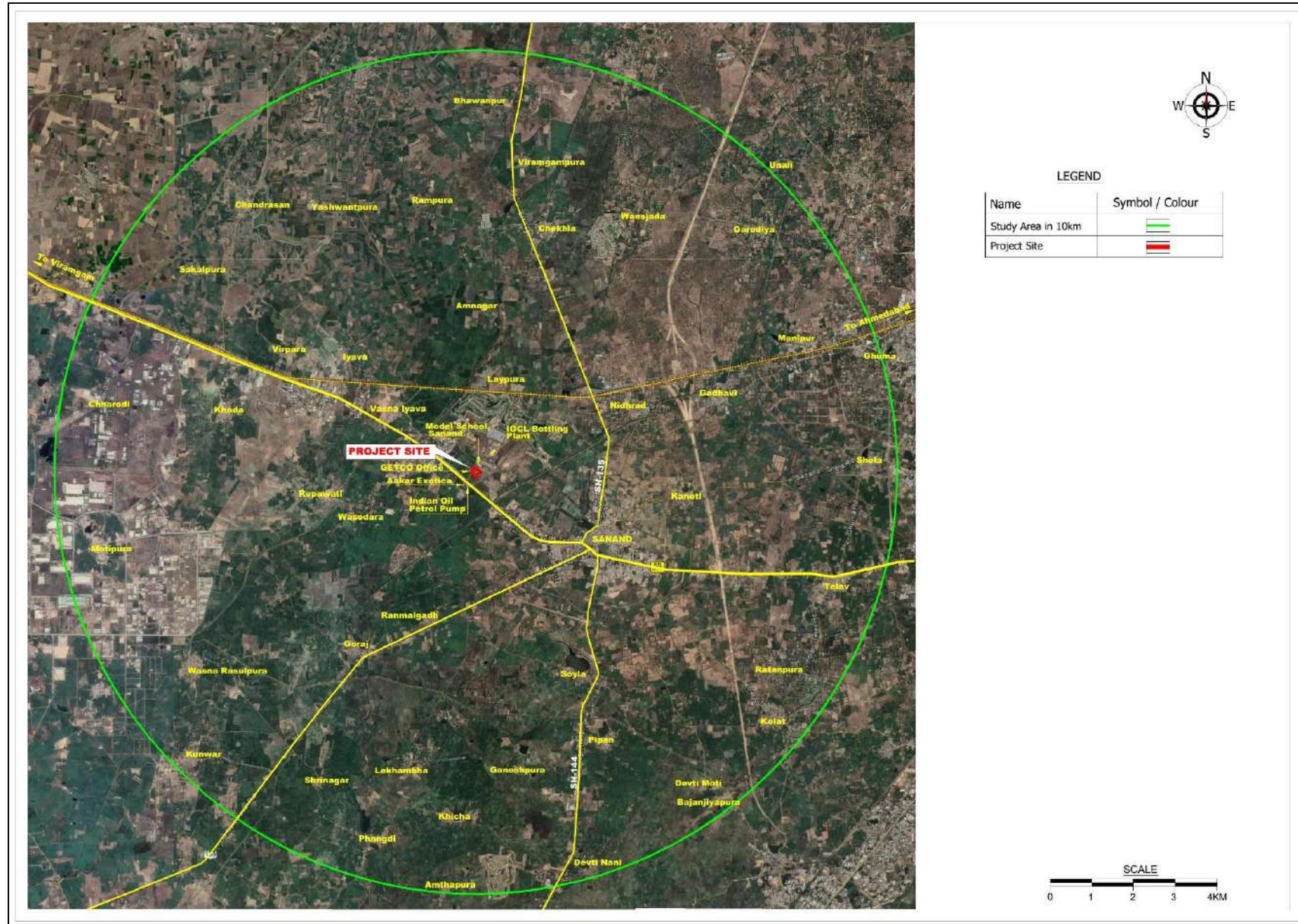
A. GENERAL INFORMATION

c. General Location Map



A. GENERAL INFORMATION

d. 10 km study area from project site & surroundings features



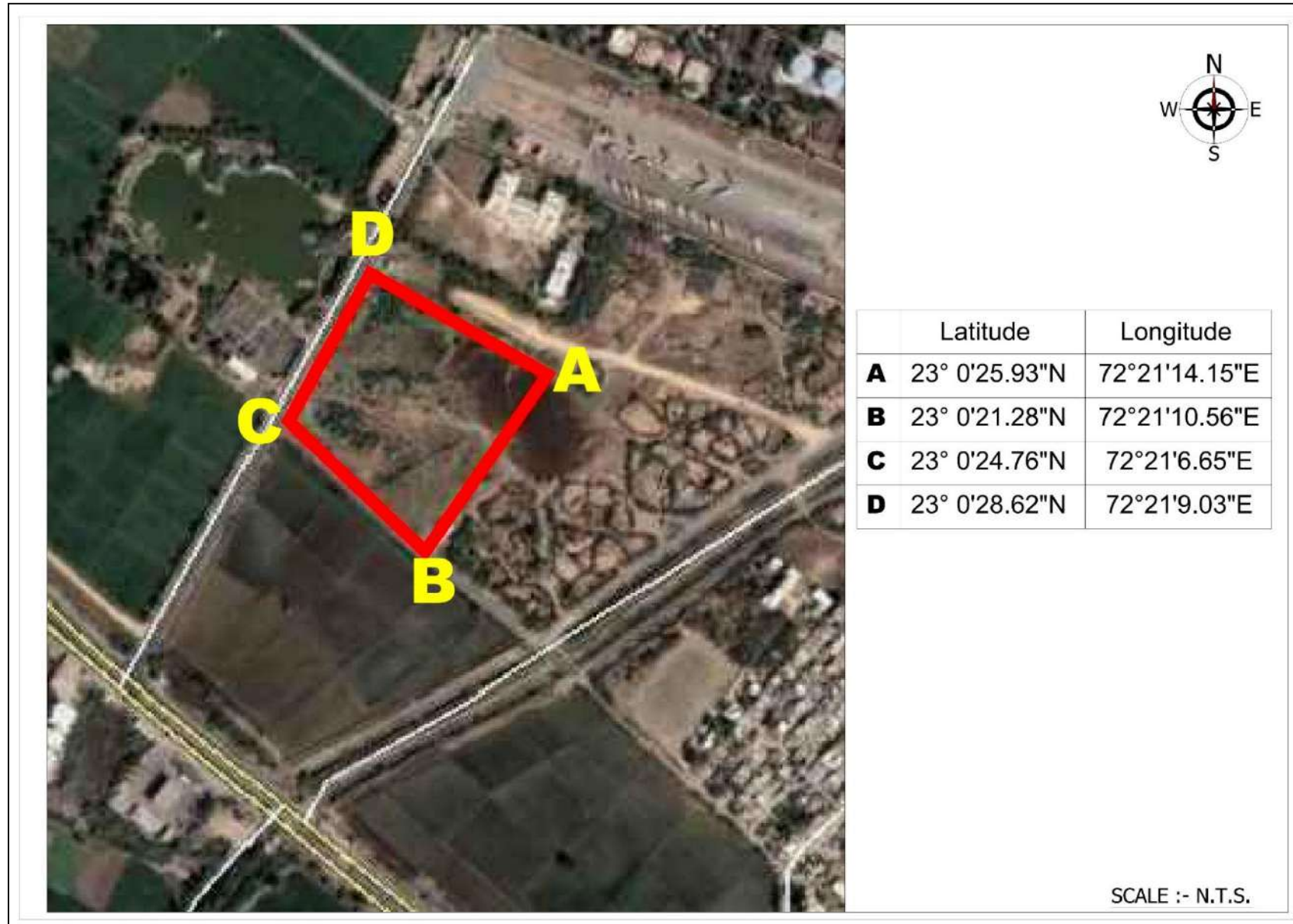
A. GENERAL INFORMATION

e. Google image showing the project site and its surroundings features



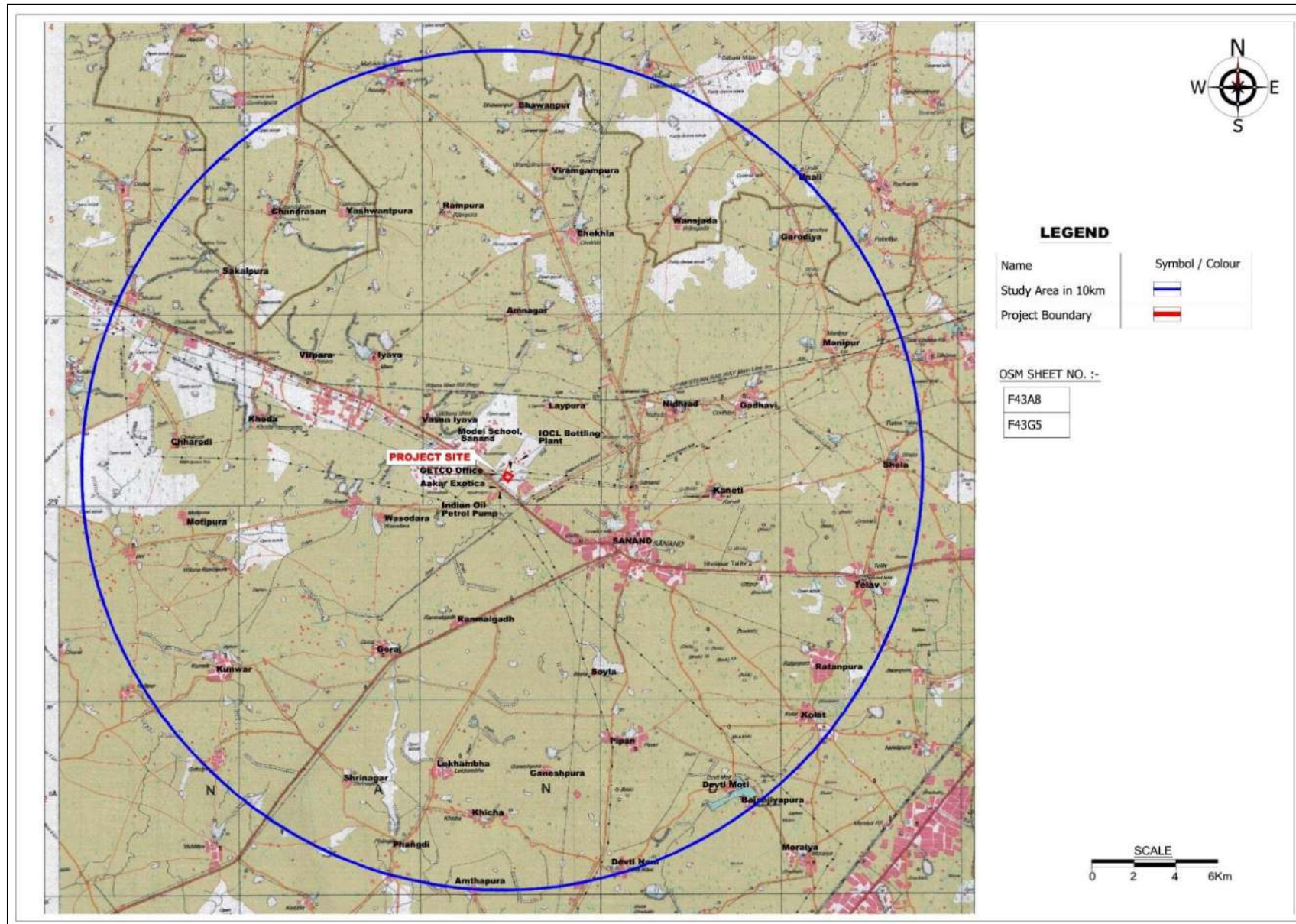
A. GENERAL INFORMATION

f. Project site boundary with coordinates



A. GENERAL INFORMATION

Location of project site on OSM (10 Km)



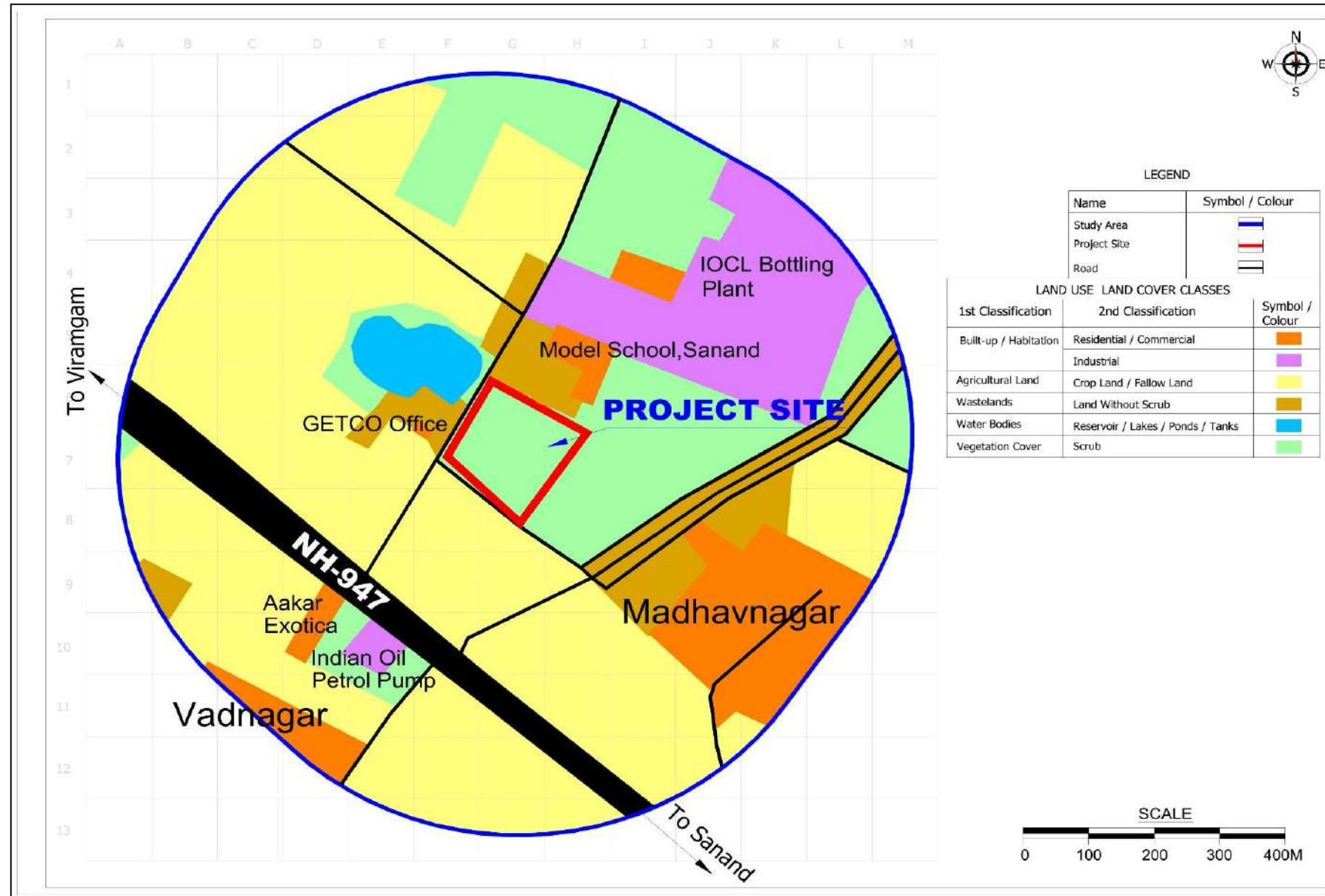
A. GENERAL INFORMATION

g. Distances from the Project Site and Project Surroundings:

Direction/Location	Name	Distance (km) & Direction
In North of project site	24 m wide TPS road	Adjacent to the project site
In West of project site	24 m wide TPS road	
In South of Project site	18 m wide TPS road	
In East of Project site	Other Open land	
Nearest Road	NH-947 (Gujarat State highway-17/ Sanad-Viramgam Highway)	~ 0.2 km in SW direction
	Sardar Patel Ring road	~ 12.4 km in ESE direction
	SH – 135 (Sanand-Nalsarovar Road)	~ 3.2 km in ESE direction
Nearest Railway	Sanand Railway Station	~ 3.7 Km in ENE direction
	Ahmedabad Railway station	~ 25.5 km in E direction
	Sarkhej Railway station	~ 15 km in ESE direction
Nearest Airport	Ahmedabad Airport	~ 28.3 Km in ENE direction
Nearest TSDF site	No TSDF within 10 km	-
Water Bodies	Bhadreti Lake, Sanand	~ 2.6 km in ESE direction
	Lakhanka Lake, Sanand	~ 3.5 km in ESE direction
	Gadhiya Lake, Sanand	~ 3.3 km in ESE direction
	Vasodar Village Pond	~ 3.1 km in SW direction
	Sabarmati River	~ 17 Km in ESE direction
	Thol Lake	~ 14.5 km in NNE direction
	Soyala Village Pond	~ 4.7 km in SSE direction
	Nalsarovar	~ 37.4 km in SW direction

A. GENERAL INFORMATION

h. Land use map-5 km of project site:



- i. Number of existing trees at project site and number of trees likely to cut for the proposed development
 - The existing vegetation cover is in the form of scattered shrubs (mainly of *Prosopis juliflora*) & grass cover at project site. Clearance of vegetation wherever required will be carried out in pre-construction phase.

- j. If river is there in 1 km distance, whether the project site is within the flood prone area. Details on distance of project site from the highest flood level recorded in past, along with years in which the said flood occurred:
 - Not Applicable, no river is there in 1 km distance from project site.

B. SCOPE OF THE PROJECT



Sr. No.	Topic	Details
1.	Total Plot/Land area	25,186.00 m ²
2.	Built up area	61,355.61 m ²
3.	FSI Area	36746.07 m ²
4.	Ground coverage	7245.7 m ²
5.	Basement Area (only for underground water tanks & Grey Water Treatment Plant)	726.58 m ²
6.	Parking Area with numbers of ECS to be provided	GF-Hollow plinth parking area: 3340.95 m ² (ECS: 119 nos.)
		GF-Open Space parking area: 2391.96 m ² (ECS: 104 nos.)
		Total parking area: 5732.9 m ² (ECS: 223 nos.)
7.	Green Area (Common plot area + periphery Tree covered area)	Total green cover area: 4081.69 m² (~ 16.2 % of total plot area) • Common Plot Area/Lawn Covered Area: 3081.69 m² • Tree covered area: 1000.0 m² • Nos. of trees to be planted: 630 nos.



B. SCOPE OF THE PROJECT

Sr. No.	Topic	Details
11.	Total Number of Blocks/Buildings	• Building: 3 nos. • Blocks: 21 nos. (7 blocks in each buildings)
12.	Scope and height of each building (e.g. Basement + Hollow plinth+ ground floor + No of floors with height of each Building)	• Scope: Basement (only for underground water tanks & Grey Water Treatment Plant) + GF/ HP + 7 floors • Height of the building: 24.20 m, Building height with top of overhead water tank: 30.25 m
13.	Block/Building wise and total no. of Residential & Units	756 nos. of residential units (252 nos. in each building)
14.	Block/Building wise and total No. of Commercial Units	22 nos. of shops on GF in Building No. 1
15.	No. of rooms in case of Hotels, Hospitals etc.	Not Applicable

B. SCOPE OF THE PROJECT

❖ Area Statement with FSI Area Calculations:

Description	Area in Sq. M.
Total Plot Area	25186.00
Req. Common plot @10% of plot area (25186.00 * 0.10)	2518.60
Provided Common Plot area/ landscape area	3081.69
Permissible FSI @ 1.8 (25186.00 * 1.8)	45334.80
Proposed FSI Area	36746.07
Balance FSI Area	8588.73
Proposed Built-up Area	61355.61

B. SCOPE OF THE PROJECT



❖ Building wise & Floor wise Built-up area:

Floors	Building-1		Building-2	Building-3	Total
	Commercial	Residential	Residential	Residential	
Blocks	A	A, B, C, D, E, F, G			
Basement (only for underground water tanks & GWTP)	726.58				726.58
Ground Floor	369.05	2062.55	2407.05	2407.05	7245.7
1 st Floor	-	2407.15	2407.05	2407.05	7221.25
2 nd Floor	-	2407.15	2407.05	2407.05	7221.25
3 rd Floor	-	2407.15	2407.05	2407.05	7221.25
4 th Floor	-	2407.15	2407.05	2407.05	7221.25
5 th Floor	-	2407.15	2407.05	2407.05	7221.25
6 th Floor	-	2407.15	2407.05	2407.05	7221.25
7 th Floor	-	2407.15	2407.05	2407.05	7221.25
Stair Cabin	-	470.71	470.71	470.71	1412.13
Lift room & OHWT	-	397.94	397.94	397.94	1193.82
ELE. SS.	-	201.63	-	-	201.63
Security Cabin	-	27.00	-	-	27.00
Total	369.05	19982.88	20125.05	20125.05	61355.61

B. SCOPE OF THE PROJECT

Building wise & Floor wise FSI area:

Floors	Building-1		Building-2	Building-3	Total
	Commercial	Residential	Residential	Residential	
Blocks	A	A, B, C, D, E, F, G			
Ground Floor	369.05	242.06	112.90	112.9	836.91
1 st Floor	-	1710.64	1709.62	1709.62	5129.88
2 nd Floor	-	1710.64	1709.62	1709.62	5129.88
3 rd Floor	-	1710.64	1709.62	1709.62	5129.88
4 th Floor	-	1710.64	1709.62	1709.62	5129.88
5 th Floor	-	1710.64	1709.62	1709.62	5129.88
6 th Floor	-	1710.64	1709.62	1709.62	5129.88
7 th Floor	-	1710.64	1709.62	1709.62	5129.88
Total	369.05	12216.54	12080.24	12080.24	36746.07

Building wise & Floor wise Floor area:

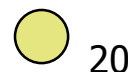
Floors	Building-1		Building-2	Building-3	Total
	Commercial	Residential	Residential	Residential	
Blocks	A	A, B, C, D, E, F, G			
Ground Floor	232.52	-	-	-	232.52
1 st Floor	-	1437.84	1437.84	1437.84	4315.52
2 nd Floor	-	1437.84	1437.84	1437.84	4315.52
3 rd Floor	-	1437.84	1437.84	1437.84	4315.52
4 th Floor	-	1437.84	1437.84	1437.84	4315.52
5 th Floor	-	1437.84	1437.84	1437.84	4315.52
6 th Floor	-	1437.84	1437.84	1437.84	4315.52
7 th Floor	-	1437.84	1437.84	1437.84	4315.52
Total	232.52	10064.88	10064.88	10064.88	30427.16

SCOPE OF THE PROJECT



Building wise & Floor wise unit numbers:

Floors	Building-1		Building-2	Building-3	Total
	Commercial	Residential	Residential	Residential	
Blocks	A	A, B, C, D, E, F, G			
Ground Floor	22	-	-	-	22
1 st Floor	-	36	36	36	108
2 nd Floor	-	36	36	36	108
3 rd Floor	-	36	36	36	108
4 th Floor	-	36	36	36	108
5 th Floor	-	36	36	36	108
6 th Floor	-	36	36	36	108
7 th Floor	-	36	36	36	108
Total	22	252	252	252	22 shops+756 Res. Units





C. POWER REQUIREMENT

Description	Requirement	Source
During Construction Phase	70 kW	Uttar Gujarat Vij Company Ltd. (UGVCL)
During Operation Phase	1922 kVA	

D. WATER AND WASTEWATER DETAILS (CONSTRUCTION PHASE)



Source of water: Tanker Water

S. No.	Purpose	Water Requirement		Wastewater Generation	
		Quantity (KLD)	Remarks	Quantity (KLD)	Remarks
1.	Domestic water for construction workers (for total 150 workers – Arrangement for domestic water requirement will be met by contractor)	4.5	@ 45 LPCD for 100 workers (to be hired from local areas)	3.8	WW generation @ 85% of total water requirement will be disposed through soak pit + septic tank
		6.8	@ 135 LPCD for 50 workers (with housing facility)	5.8	
2.	Dust suppression	~ 3.0	-	-	Losses
3.	Washing of construction equipment	~ 5.0	-	-	Losses
4.	Curing & Construction Activities	~ 20	-	-	Losses
	Total	39.3	-	9.6	-

Mode of Disposal of Sewage : Domestic waste water will be disposed-off through soak pit + septic tank during construction phase.

E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)



Source of water: : AUDA water supply system (Consent to supply fresh water at proposed project by AUDA has been received)/ Bore well water (after getting prior permission from CGWA)

Sr. No.	Domestic purpose (Occupants calculated as per NBC)	Standards/ Basis (as per NBC)	Water Consumption (KLD)			WW generation (KLD)		
			Domestic/ Fresh water	Flushing/ Recycled water	Total	Domestic WW@ 80% of fresh water	Flushing WW @100% of recycled water	Total
1.	Residential Occupants 3780 nos. [756 (1.5 BHK) residential units × 5 persons/unit]	135 LPCD (90 lit for domestic & 45 lit for Flushing)	340.2	170.1	510.3	272.2	170.1	442.3
2.	Residential Visitors 378 nos. (10 % of the total residential occupants)	15 LPCD (5 lit for domestic and 10 lit for flushing)	1.9	3.8	5.7	1.5	3.8	5.3
A	Total - Residential		342.1	173.9	516.0	273.7	173.9	447.6
3.	Commercial Fixed Staff 44 nos. (22 units*2 person/unit)	45 LPCD (25 lit for domestic and 20 lit for flushing)	1.1	0.9	2.0	0.9	0.9	1.8
4.	Commercial Visitors (~ 100 assumed)	15 LPCD (5 lit for domestic and 10 lit for flushing)	0.5	1.0	1.5	0.4	1.0	1.4
B	Total - Commercial		1.6	1.9	3.5	1.3	1.9	3.2
C	Green area (3081.69 m² Gardening/ landscape area + 1000 m² peripheral tree plantation area = 4081.69 m²)	6 lit./m²/Day	-	24.5	24.5	-	-	-
Total (A + B + C)			343.7	200.3	544.0	275.0	175.8	450.7
				(175.8 for Flushing + 24.5 for Gardening)	(343.7 Fresh water + 200.3 Recycled)	(Grey water generation)	(Black water generation)	

E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)



Consent to supply fresh water at proposed project by AUDA.

 **AHMEDABAD URBAN DEVELOPMENT AUTHORITY** 
AUDA

Ref. No.: _____ Date: 06.10.20

Consent to Supply Fresh Water at Proposed EWS Housing
at FP 31, TPS No. 4/A, Sanand

This letter is regarding consent to provide potable drinking water by Ahmedabad Urban Development Authority (AUDA) to proposed EWS housing - Residential cum Commercial Building Construction project at Survey nos. 159, 160, 161, 165, Final Plot no. 31, TP scheme no. 4/A, Village & Taluka Sanand, Ahmedabad.

 
Executive Engineer
Ahmedabad Urban Development Authority
Ahmedabad

Sardar Vallabhbhai Patel Bhavan, Usmanpura, Ashram Road, AHMEDABAD - 380 014.
PHONE : (O) 27545051-54. • Fax : (079) 27545061 • E-mail : auda_urban@yahoo.co.in • Web site : www.auda.org.in



E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)



Mode of Disposal:

- ~ 275 KLD of grey water will be treated in proposed on site 300 KLD Grey water treatment plant (GWTP). Treated water will be reused in flushing & gardening purposes and surplus treated water will be discharged into municipal sewer line with prior permission.
- ~ 175.8 KLD of black water generated will be discharged into municipal sewer line with prior permission.
- Note: Currently at site no municipal sewer line is available, it is under TP scheme development and will be developed by AUDA.
- Consent to discharge sewage from the proposed project into proposed sewer network by AUDA has been received.

Consent to discharge sewage from the proposed project into proposed sewer network by AUDA



AHMEDABAD URBAN DEVELOPMENT AUTHORITY

15 YEARS OF CELEBRATING THE FUNDATION

Ref. No.: _____ Date : 8/08/2021

Consent to discharge Sewage into proposed sewer network for EWS housing at FP-31, T.P.S. No. 4/A, Sanand

This letter is a consent to discharge remaining treated grey sewage along with the untreated black sewage into the proposed sewer network system to be developed under TP scheme no. 4/A by AUDA from the proposed EWS Residential cum Commercial Building Construction project at Survey Nos. 159,160,161,165 Final Plot No. 31, T.P.S. No. 4/A, Village & Taluka Sanand, District Ahmedabad, Gujarat.

For, Ahmedabad Urban Development Authority (AUDA)

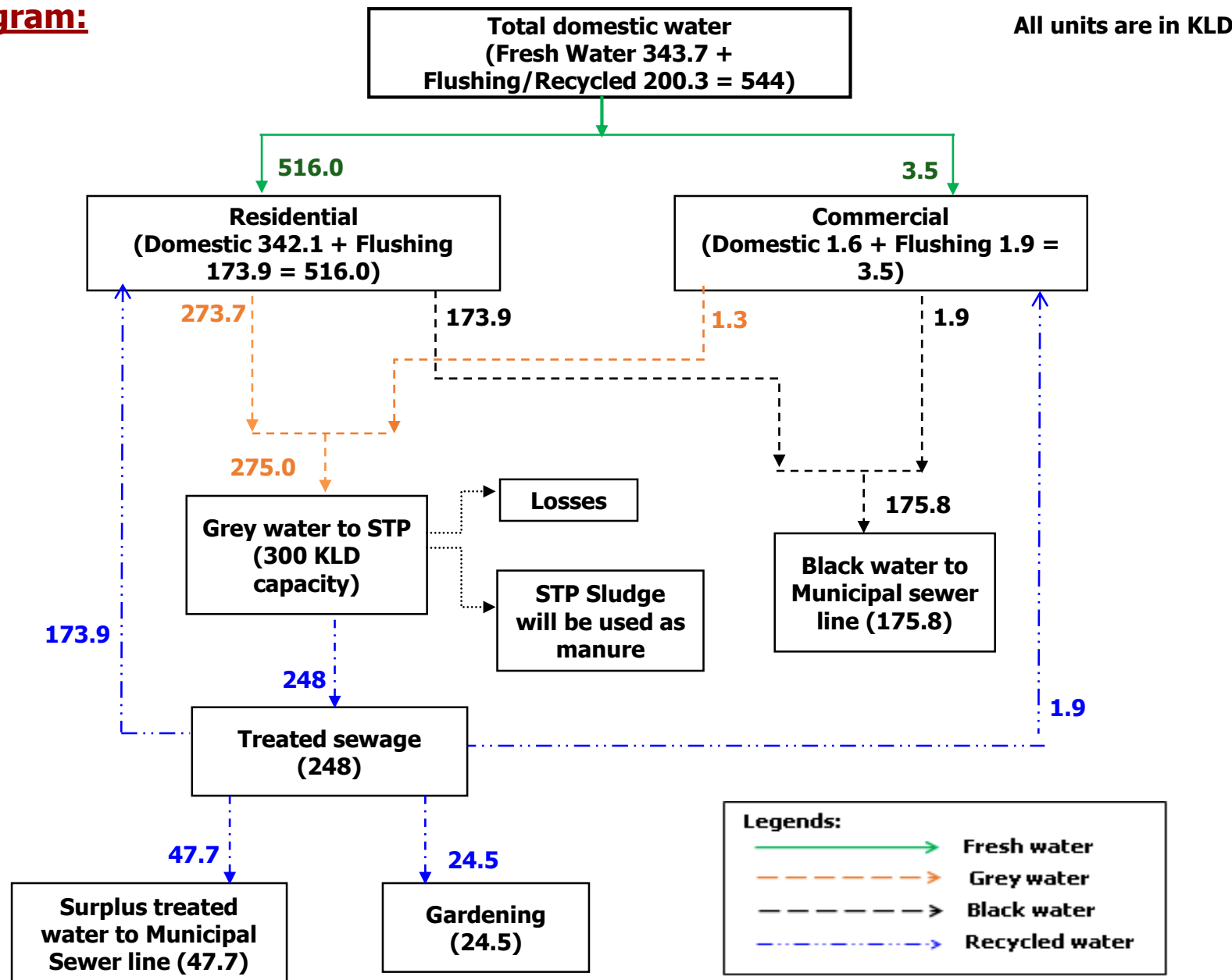

Executive Engineer
Ahmedabad Urban Development Authority
Ahmedabad

Sardar Vallabhbhai Patel Bhavan, Umanpura, Ashram Road, AHMEDABAD - 380 014.
PHONE : (O) 27545051-54. • Fax : (079) 27545061 • E-mail : auda_urban@yahoo.co.in • Web site : www.auda.org.in



E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)

Water Balance Diagram:



E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)



a.	Mode of disposal of sewage:
	• ~ 275 KLD of grey water will be treated in proposed on site 300 KLD Grey water treatment plant (GWTP). Treated water will be reused in flushing & gardening purposes and surplus treated water will be discharged into municipal sewer line with prior permission. • ~ 175.8 KLD of black water generated will be discharged into municipal sewer line with prior permission.
b.	If sewage is to be discharged into municipal sewer, whether drainage network is existing in the area where the project is located:
	Currently at site no municipal sewer line is available, it is under TP scheme development and will be developed by AUDA. Consent to discharge sewage into proposed sewer network from the proposed project into proposed sewer network by AUDA has been received.
c.	Details of STP (If Proposed) :
	300 KLD Grey water treatment plant (GWTP)
d.	Details of Dual Plumbing System, if treated sewage is to be reused for flushing
	Dual plumbing system will be provided.
e.	Availability of the Land area, if treated sewage is to be utilized for plantation / gardening:
	Total 4081.69 m ² area will be developed as green area. (3081.69 m ² Gardening/landscape area + 1000 m ² peripheral tree plantation area)

DETAILS OF SEWAGE GENERATION, TREATMENT & DISPOSAL

- **Total sewage generation: ~ 450.7 KLD of**
- **Grey water Generation: ~ 275.0 KLD**
- **Black Water Generation: ~ 175.8 KLD.**
- **Grey Water Treatment Plant (GWTP) : 300 KLD capacity based on MBBR technology.**
- Considering 90% treatment efficiency of the proposed grey water treatment plant, ~ 248 KLD total treated water will be generated after treatment, out of which, 175.8 KLD (173.9 residential + 1.9 commercial) will be used for flushing and 24.5 KLD will be used for gardening purposes. Surplus treated water i.e. 47.7 KLD will be discharged into Municipal Sewer Line with prior permission.
- **~ 175.8 KLD of black water generated will be discharged into municipal sewer line with prior permission.**
- Dual plumbing system will be provided to reuse of treated water for flushing.

E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)

Details Of 300 KLD Grey Water Treatment Plant (GWTP) Based On MBBR Technology

- Inlet & Outlet Design characteristics of GWTP**

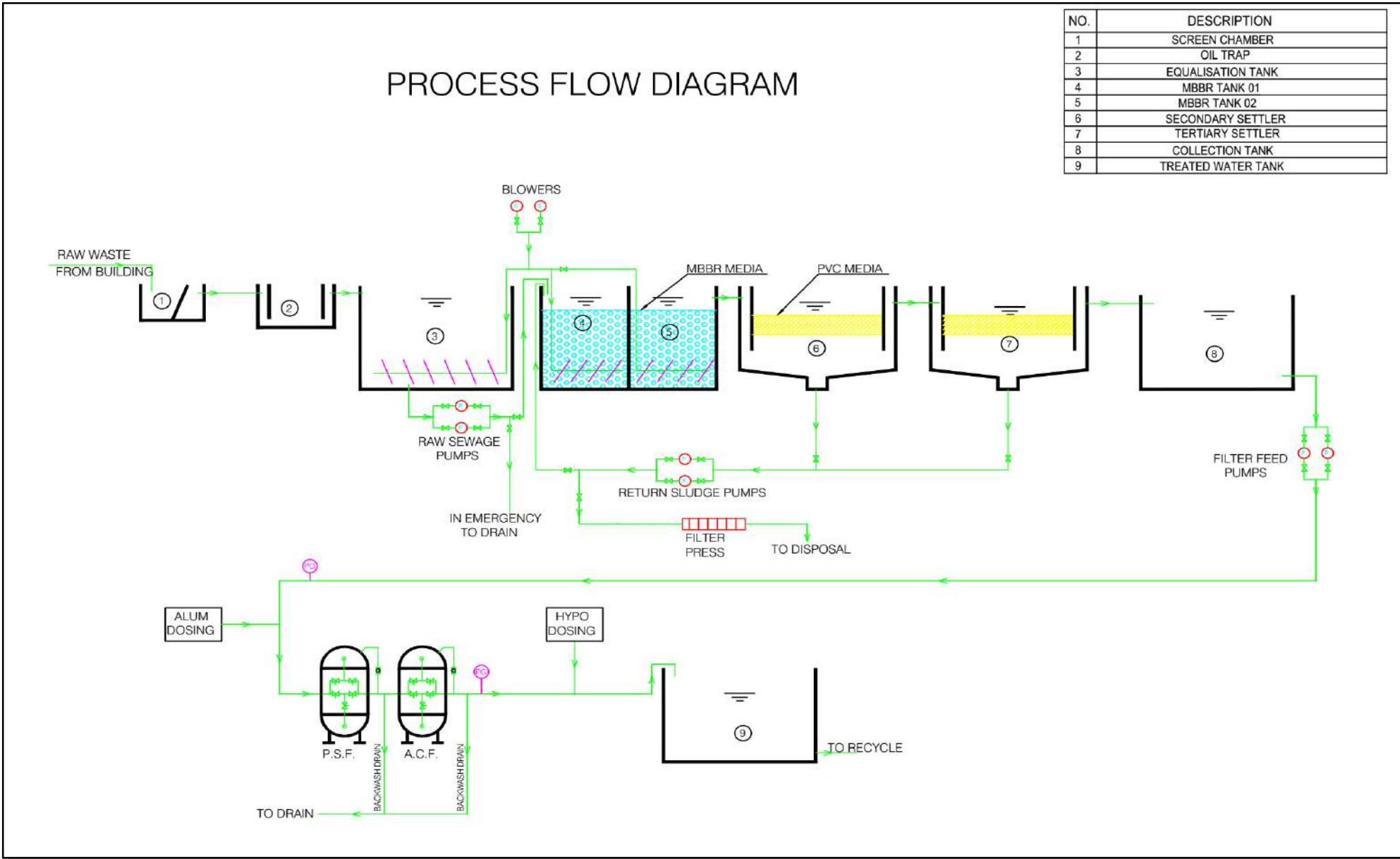
Parameters	Unit	Inlet Characteristics	Outlet Characteristics from STP
pH	-	6.5 – 7.0	6.5 – 7.5
COD	mg/l	350 - 400	< 30
BOD (5 days @ 20°C)	mg/l	250 - 300	< 10
Total Suspended Solids	mg/l	150 – 200	< 10
Oil & Grease	mg/l	50	< 10

- The proposed Grey water treatment plant consisting of the following treatment units:**

- | | |
|---|--|
| 1. Screen Chamber | 8. Intermediate Collection Tank |
| 2. Oil & Grease trap | 9. Pressure Sand filter |
| 3. Equalization Tank | 10. Activated Carbon filter |
| 4. MBBR tank with MBBR media | 11. Final Collection Tank |
| 5. Secondary settling tank | 12. Sludge Collection Tank |
| 6. Tertiary settling tank | 13. Filter press |
| 7. Dosing system for Alum & Hypo | |

E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)

GWTP Process Block Diagram



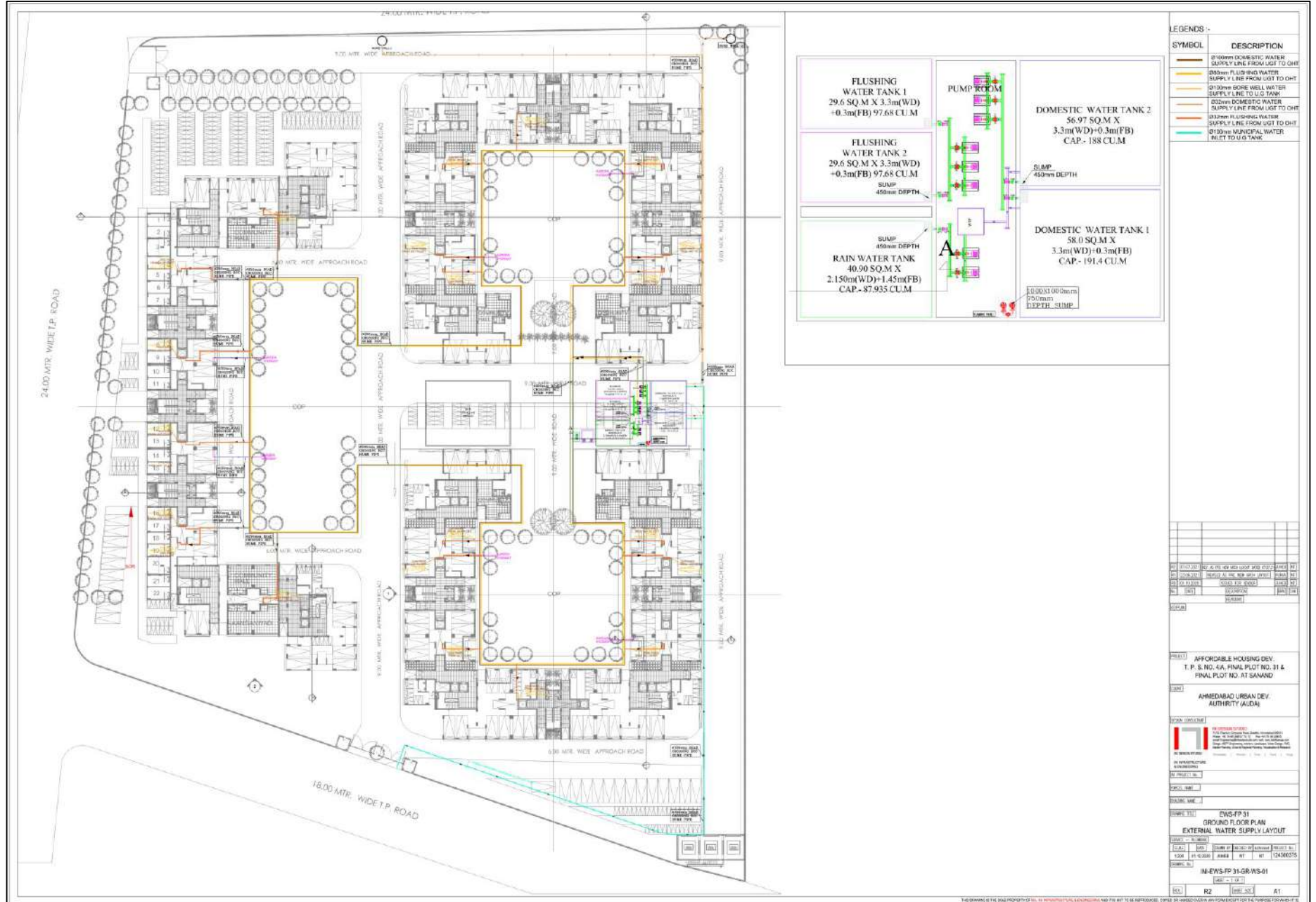
E. WATER AND WASTEWATER DETAILS (OPERATION PHASE)



■ Treatment units with Sizing of proposed GWTP of 300 KLD capacity

S. No.	Name of Unit	No. of Unit	Unit size (in m)			Total Volume (m³)	Design Flow (m³/day)	Retention Time	
			L	B	H			Min.	Hrs.
1.	Screen Chamber	1	1.0	1.0	0.5	1.0	300.0	4.8	-
2.	Oil & Grease Tank	1	6.0	2.0	1.5	18.0	300.0	-	1.45
3.	Sewage Collection cum Equalization Tank	2	10.0	5.0	3.0	300.0	300.0	-	24.0
4.	MBBR Aeration tank	2	4.0	4.0	4.0	128.0	300.0	-	10.2
5.	Settling tanks	2	4.0	4.6	2.15	80.0	300.0	-	6.3
6.	Intermediate Collection tank	1	4.5	4.5	2.5	50.6	300.0	-	4.0
7.	Pressure Sand Filter	1	15 cu.m/Hr.	20 Hr. Operation		-	300.0	-	-
8.	Activated Carbon Filter	1	15 cu.m/Hr.	20 Hr. Operation		-	300.0	-	-
9.	Ozonisation	1	Online Ozonisation system			-		-	-
10	Final Collection Tank	1	10.0	10.0	3.5	350.0	300.0	-	28.0
11.	Sludge Collection Sump	1	3.0	3.0	3.0	27.0	-	-	-
12.	Screw Press	1	600 Kgs Dry Sludge Per Day			-	-	-	-

Water supply schematic flow Diagram/ Dual Plumbing System



F. MUNICIPAL SOLID WASTE DETAILS (CONSTRUCTION PHASE)



F. Municipal Solid waste generation & disposal management – Construction Phase:

Sr. No.	Description	Quantity (kg/day)
1.	Domestic [50 workers (with housing facility) X 0.4 kg/person/day] + Domestic [100 worker (to be hired from local areas) X 0.15 kg/person/day) = Total 150 workers	20 kg/day + 15 kg/day = 35 kg/day

Mode of Disposal: MSW will be collected properly into separate bins and disposed-off properly as per guidelines.

G. MUNICIPAL SOLID WASTE DETAILS (OPERATION PHASE)



G. Municipal Solid waste generation & disposal management – Operation Phase:

Sr. No.	Description	Quantity (kg/day)
1.	Residential (3780 occupants × 0.5 kg/capita/day)	1890.0
2.	Residential Visitors (378 visitors × 0.2 kg/capita/day)	75.6
A	Total (Residential)	1965.6 (i.e. 1.9656 t/day)
3.	Commercial (12 fixed × 0.15 kg/capita/day)	6.6
4.	Commercial – visitors (111 visitors × 0.1 kg/capita/day)	10.0
B	Total (Commercial)	16.6 (i.e. 0.0166 t/day)
	Total (A + B)	1982.2 (i.e. 1.9822 ~ 2 t/day)

Mode of disposal: Adequate independent collection bins for waste collection will be provided as per Solid Waste Management Rules, 2016. The waste will be collected & segregated separately on Daily basis. OWC will be provided for safe disposal of biodegradable waste and non-biodegradable waste (recyclable) will be sold off to authorized recyclers.

G. MUNICIPAL SOLID WASTE DETAILS (OPERATION PHASE)



Solid Waste Collection, Disposal/Treatment

Nature and quantity	Biodegradable (40%):	792.88 kg/day (i.e. 0.79 ~ 0.8 t/day) (Waste vegetables and foods)
	Non-biodegradable (60%):	1189.32 kg/day (i.e. 1.2 t/day) (Papers, cartons, Thermocol, plastics, glass etc.)
	Total:	1982.2 kg/day (i.e. 1.9785 ~ 2 t/day)
Collection and Segregation of waste	Solid wastes generated will be collected & segregated separately on Daily basis into biodegradable and non-biodegradable components.	
Treatment of waste	Bio-Degradable wastes: Biodegradable wastes will be collected separately and Organic waste convertor will be provided for its treatment & safe disposal. Recyclable wastes: Recyclable wastes like paper, plastic, metals etc. will be sold off to authorized recyclers.	
Disposal	- Manure generated from OWC after treatment of bio-degradable waste will be used within the site premises for gardening purpose. Recyclable and non-recyclable wastes will be disposed through Govt. approved agency. - Hence, the Municipal Solid Waste Management will be conducted as per the guidelines of Solid Waste Management Rules, 2016.	

No. and Volume of Bins to be Provided for collection of Municipal Solid waste:

	No. of Residential Units or Area in m ²	Number	Remarks
Residential Unit	756 residential units	95 nos. of 80 litre capacity bins	1 Unit/10 litre waste generation. 756 units = 7560 litre waste generation. $7560/80 = 94.50 \sim 95$ nos. of 80 litre capacity bins
Other area	368.72 m ²	1 nos. of 80 litre capacity bin	20 litre per 100 m ² of floor area. $368.72 \times 20 / 100.00 = 73.74$ litre, $73.74 / 80 = 0.92 \sim 1$ NO.

Details of Organic Waste Converter

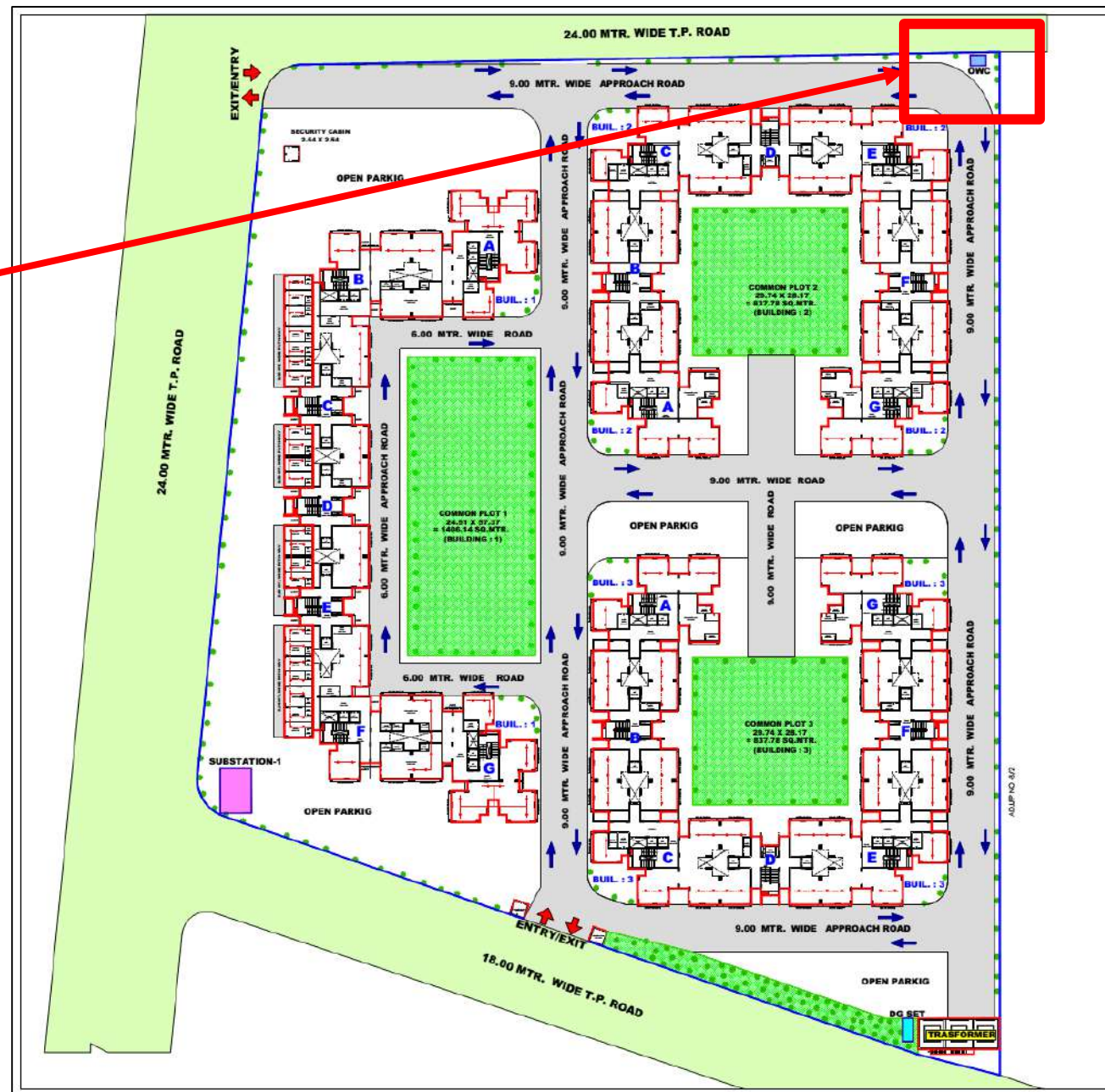
For the proposed project, a **Fully Automatic Composting Machine (Organic waste converter) of 800 kg capacity will be provided** for treatment & safe disposal of bio-degradable waste generated during operation phase and manure will be used within the site premises for landscaping.

Details of Space requirement for OWC (Fully Automatic Composting Machine) & Storage of manure:

- The size of machine will be of 3.15 m Long (L), 2.0 m wide (W) and 2.25 m tall (H).
- It will require very less floor space of $3.15 (L) \times 2.0 (W) = 6.3 \text{ sq. m}$ for machine installation.
- ~ 15 sq. m area will be provided as Solid waste storage & OWC area within premises which includes area for OWC machine, area for waste collection & segregation & area for storage of manure. Area provided for machine = ~ 7.0 sq. m, Area of Collection & segregation of waste = ~ 5.0 sq. m, Area for storage of manure = ~ 3.0 sq. m.
- After collection & segregation, the biodegradable waste will be added to fully automatic composting machine on daily basis.
- There will be 85-90% volume reduction of waste into high quality compost.
- Manure will be generated once in 8-10 days.
- Approx. 80 kg manure will be generated which will be stored and used within the site premises for Green belt development/ landscaping purposes, distributed to residents for individual home gardening purposes.

G. MUNICIPAL SOLID WASTE DETAILS (OPERATION PHASE)

Location of OWC
(composting
facility) at project
site



H. PARKING DETAILS

FSI Area in m ²	Parking Requirement as per the GDCR (Table 8.3)		Parking Area Proposed to be Provided (m ²)		Provided ECS*
	% of Total FSI	Parking Area Required (m ²)	Location	Parking area (m ²)	
Residential FSI area = 36377.02 m ²	Residential parking at 10 % of Utilized FSI (for affordable residential apartments with dwelling units of BUA up to 66 sq.mt.)	3637.70	GF (Hollow Plinth)	2936.6	105
			GF (Open parking)	1465.66	64
	Residential visitor’s parking at additional 10% of the required residential parking space	363.77	GF (Hollow Plinth)	404.35	14
			GF (Open parking)	487.6	21
(A) Total (Residential)		4001.47	-	5294.2	204
Commercial FSI area = 369.05 m ²	Commercial Parking at 50 % of respective utilized F.S.I.	184.53	GF (Open parking)	373.42	16
	Commercial Visitor’s parking at 20% of the required Commercial parking space	36.91		65.28	3
(B) Total (Commercial)		221.44	-	438.7	19
Total (A + B)		4222.91	Total	5732.9	223

Note: *ECS=Equivalent Car Space ,*GF-Hollow Plinth: 28 m² per 1 ECS &GF-Open Parking: 23 m² per 1 ECS including circulation area (Clause Number 10.1 of NBC 2016)

H. PARKING DETAILS

Parking Area Summary

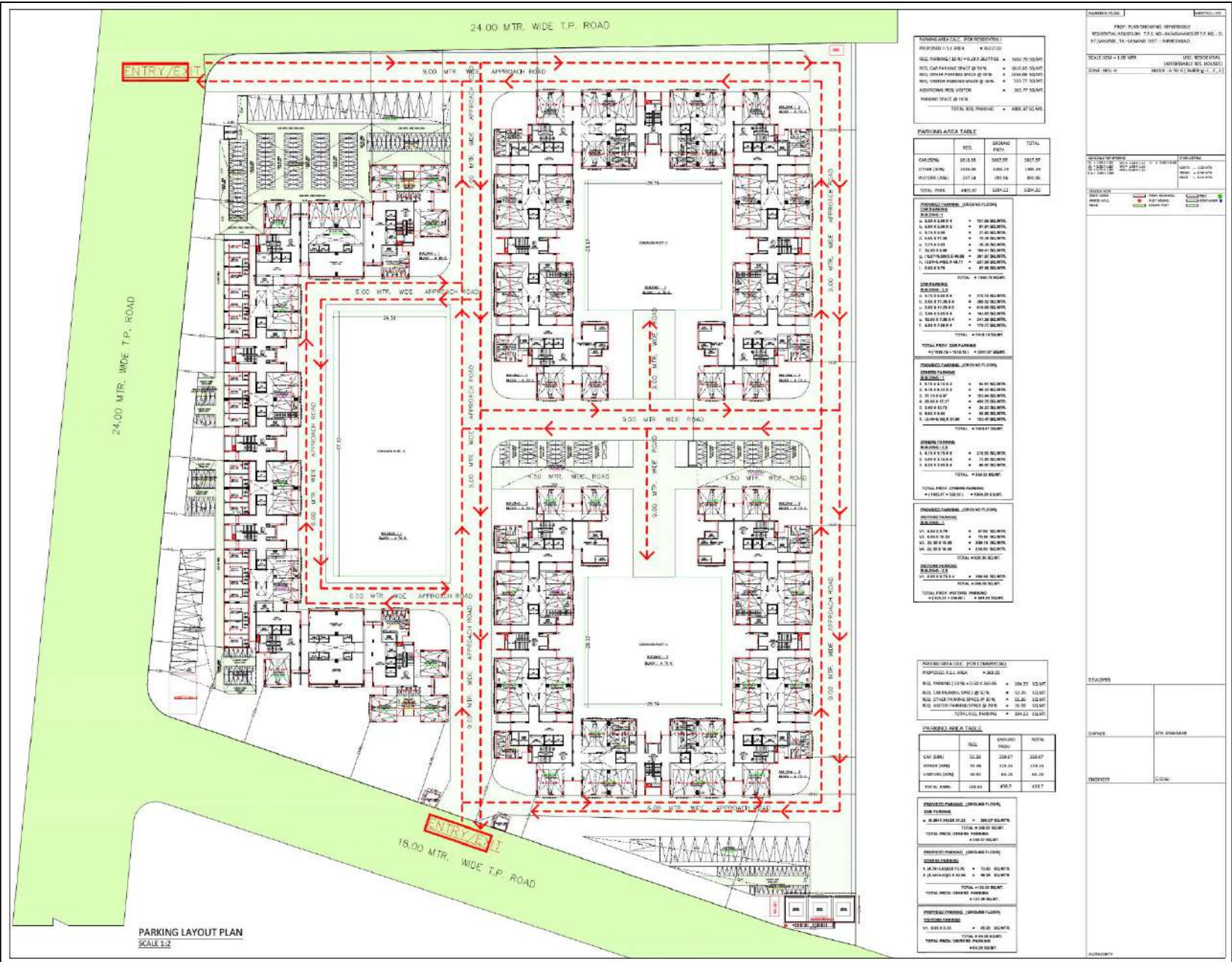
Parking Requirement	Parking Space Proposed to be Provided	
As per GDCR	Provided parking Area	Nos. of ECS provided
4222.91 m²	5732.9 m²	223 ECS

Sr. No.	Parking Level	Area (m ²)	ECS (Nos.)
1.	Ground floor (HP)	3340.95	119
2.	Ground floor (open Parking)	2391.96	104
	Total	5732.9	223

Car parking & other parking space provisions summary

Sr. No.	Type of vehicles	Proposed Parking Space, m ²	% Composition
1.	Total Car parking space	3268.04	57 %
2.	Other parking space (Two Wheelers)	1507.63	26 %
3.	Visitors Parking space (Two wheelers)	957.24	17 %
	Total Parking space provision	5732.9	100 %

PARKING & TRAFFIC CIRCULATION PLAN



I. AIR POLLUTION/NOISE CONTROL ASPECTS



a. Engineering Controls proposed for dust control :

Parameter	Mitigation Measures	
	Construction phase	Operation phase
Air	• Dust suppression by regular water sprinkling • Provision of peripheral barricading of ~ 6 m height at construction site to prevent dust transmission outside project premises. • Compaction of soil during various construction activities • Construction materials will be stored properly & covered to avoid dust emission during transportation/storage. • Properly tuned construction machinery & vehicles in good working condition with low emission will be used and engines will be turned off when not in use. • All equipment will be operated within specified design parameters. • Vehicle trips will be minimized to the extent possible. • PUC compulsion for all vehicles. • Regular periodic Ambient Air Quality monitoring will be carried out.	• Traffic will be controlled by Trained staff. • Provision of adequate DG set' stack height. • Regular monitoring of ambient air quality & DG set stack air quality will be carried out as per norms.

I. AIR POLLUTION/NOISE CONTROL ASPECTS



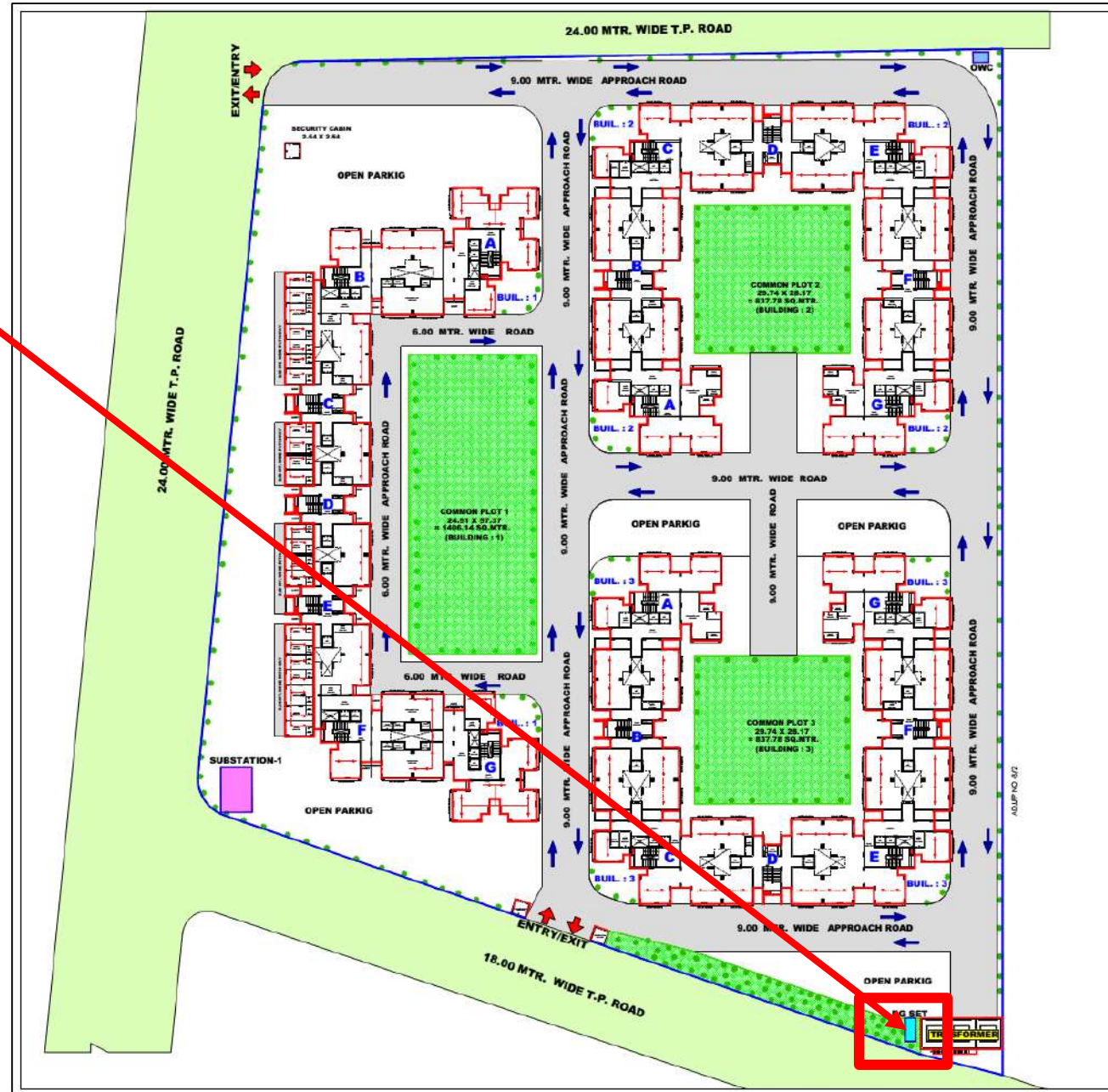
b. Details of D.G. Sets:

Description	Power Backup	Fuel Type & Consumption
During Construction Phase	D.G Set: 1 × 100 kVA capacity (in case of power failure)	HSD@ 21 liter/hr.
During Operation Phase	D.G Set: 1 × 320 KVA capacity (in case of power failure for common facilities & in emergency)	HSD@ 70 liter/hr.



I. AIR POLLUTION/NOISE CONTROL ASPECTS

c. Location of DG sets marked on the layout Plan.



I. AIR POLLUTION/NOISE CONTROL ASPECTS



d. Plan to curb noise likely to be generated from the use of construction equipment like mixers, vibrators etc. and from the use of D.G. Sets:

Parameter	Mitigation Measures	
	Construction phase	Operation phase
Noise	• Equipment will be maintained in good working order. • Implementation of good working practices to minimize noise & reduce its impacts on human health. • Acoustic enclosure/muffles will be provided in large engines/machineries. • Protective gears such as ear muffs/ear pods will be provided to construction personnel exposed to high noise levels. • Regular periodic ambient noise level monitoring will be carried out. • Vehicle trips will be minimized to the extent possible. • All equipment will be operated within specified design parameters.	• DG set will be provided with Acoustic Enclosure. • Regularly Noise level to be monitored of DG Set within premises as per norms. • Traffic will be controlled by trained staff. • Proper Traffic Signage will be placed at several places within premises.

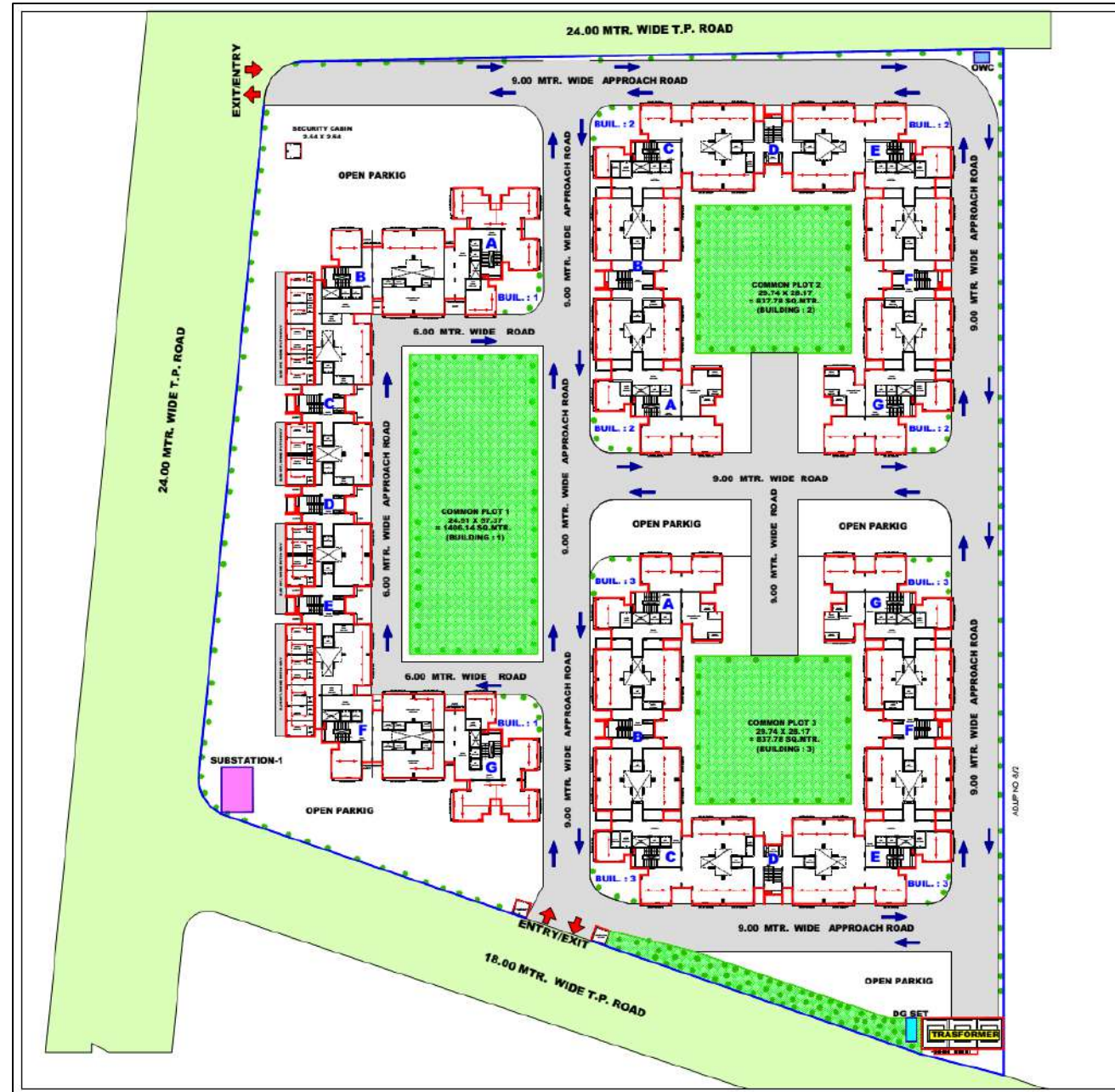


a. Traffic Management Plan

- Provision of separate entry & exit
- Adequate Parking space at Ground level (Hollow plinth & open)
- Internal road of minimum 6 m & 9 m width within the project premises
- Provision of uninterrupted fire tender & ambulance movement pathway.
- Trained staff to control traffic.
- Proper signage for entry, exit & vehicle's parking will be provided.
- Provision of Security at the gate to assist smooth flow of the traffic entry/exit the premises to the main road.
- The angle of entry and exit is designed to avoid point of conflict as to enable smooth diverging of the traffic to and from the site.

J. TRAFFIC MANAGEMENT & SAFETY

b. Layout plan showing provision of entry, exit, etc.



J. TRAFFIC MANAGEMENT & SAFETY



c. Details of Traffic Study (if any carried out) and adequacy of the adjacent roads to carry additional traffic due to the proposed project: Limited traffic survey was carried out on 02.07.2021 for 12 hours for up & down traffic flow.

Name of Road: Sanand-Viramgam Highway (i.e. NH-947/Gujarat State Highway: SH-17)

Point of traffic survey & Date: Near road toward project site (near Sanand toll booth)

Traffic flow Towards	Vehicle type & Vehicle Count (for 12 hours: 08.00 AM to 08.00 PM)								Total
	2Wh	3Wh	4WH					3Wh	
	Scooters & Motor Cycles	Auto- Rickshaw	Passenger Cars/ Jeeps/Pick-up Vans	Light commercial vehicles	Trucks	Buses	Agricultural tractor, trailer	Bicycles	
To Viramgam (Up)	7622	1515	3580	1222	1463	371	286	193	16252
To Sanand (Down)	7478	1453	3756	1164	1481	282	196	199	16009
Total	15100	2968	7336	2386	2944	653	482	392	32261



J. TRAFFIC MANAGEMENT & SAFETY



PREDICTED TRAFFIC BASEMENT

Description	Value & PCU*
Parking provided	223 ECS
Volume of traffic (up and down) two times	446 PCU/Hr.
Duration	12 hrs
Hourly traffic Count	37 PCU/Hr.
Assumed movement of traffic (Proposed)	50 % from towards Sanand 50 % from towards Viramgam
Towards Sanand	18.5 ~ 19 PCU/Hr.
Towards Viramgar	18.5 ~ 19 PCU/Hr.

IMPACT ON EXISTING TRAFFIC

Name of Road: Sanand-Viramgam Highway (i.e. NH-947/Gujarat Stati Highway: SH-17)						
Point of traffic survey & Date: Near road toward project site (Nr. Sanand toll booth)						
Traffic flow towards	Existing Traffic (PCU/Hr.)	Proposed Assumed Traffic (PCU/Hr.)	Total (PCU/Hr.)	*Carrying Capacity PCU as per IRC : 106-1990		
				Volume	Type	Category
Viramgam (Up)	1354	19	1373	3600	4-Lane Divided (Two way)	Arterial road
Sanand (Down)	1334	19	1353			

**Carrying Capacity: as per the Indian Road Congress-Guideline for capacity of roads in Urban Areas. (IRC:106-1990), Table-2, Recommended Design Service Volumes, page-11*

ROADS TO THE SITE: NH-947 (Sanand-Viramgam Highway)



a. Width of peripheral open Path:

❑ A minimum 6 m & 9 m wide drive way/internal road will be provided within project premises.

b & c. Height, No. of Floors and Floor Area along with number of escalators, staircases & staircase width

Building, Block, Max. height	No. of Floors	Floor/carpet Area (m ²)	Number of stair case		Stair case width (m)	Number of Lifts in each block	
			in each block	Total in building		in each block	Total in building
Basement (only for STP & Underground water storage tanks (Ht.: 3.0 m)	1 level	-	-	2	1.40	-	-
Building: 1, Block: A to G (7 nos.) Max. Ht.: 24.20 m	GF	232.52	1	7	1.50	2	14
	1 st Floor	1437.84	1	7	1.50	2	14
	2 nd Floor	1437.84	1	7	1.50	2	14
	3 rd Floor	1437.84	1	7	1.50	2	14
	4 th Floor	1437.84	1	7	1.50	2	14
	5 th Floor	1437.84	1	7	1.50	2	14
	6 th Floor	1437.84	1	7	1.50	2	14
Building: 2, Block: A to G (7 nos.) Max. Ht.: 24.20 m	1 st Floor	1437.84	1	7	1.50	2	14
	2 nd Floor	1437.84	1	7	1.50	2	14
	3 rd Floor	1437.84	1	7	1.50	2	14
	4 th Floor	1437.84	1	7	1.50	2	14
	5 th Floor	1437.84	1	7	1.50	2	14
	6 th Floor	1437.84	1	7	1.50	2	14
	7 th Floor	1437.84	1	7	1.50	2	14
Building 3, Block: A to G (7 nos.) Max. Ht.: 24.20 m	1 st Floor	1437.84	1	7	1.50	2	14
	2 nd Floor	1437.84	1	7	1.50	2	14
	3 rd Floor	1437.84	1	7	1.50	2	14
	4 th Floor	1437.84	1	7	1.50	2	14
	5 th Floor	1437.84	1	7	1.50	2	14
	6 th Floor	1437.84	1	7	1.50	2	14
	7 th Floor	1437.84	1	7	1.50	2	14

d. Distance of the staircase from the farthest corner of the floor (maximum travel distance) :

- **Maximum travel distance: 30 m**

e. Distance of the nearest Fire Station and time required for the fire tender to reach at the project site

- **Sanand Fire Station at ~ 7.57 km in ESE direction from project site.**
- **Prahladnagar fire station at ~ 20 km in SE direction from project site**
- **The fire tender will take approx. 15-30 min to reach the project site during emergency.**

f. No. and capacity of Fire water Storage tanks:

Location	No of Storage Tank	Capacity (in Liter)
Terrace	1 nos. (on each block)	25,000 Liters (on each block)

g. Fire Fighting Installation System:

According to NBC - 2016, the project is categorized as follows:

- **Building in Group A: Residential, Sub Group A-4: Apartment Houses & Group F: Mercantile, Subdivision F-1: Shops, Stores, departmental stores, markets (any with covered area up to 500 m²)**
- **Fire–Zone No.1 Type-1 (clause 3.2.2.2)**

As per Table 7, Part 4 Fire and Life Safety, NBC-2016 [Under the clauses 4.9(a), 4.9(c), 4.9(e), 5.1.1(a & d), 5.1.2.1, 5.1.3(a), E-7, H-2(f) and Table-2], following are minimum requirements for fire fighting installations & to be provided for the proposed project under 15 m and above not exceeding 35 m in height:

- **Fire Extinguisher**
- **First Aid Hose reel (100 mm fire hydrant riser with hose reel provided for each block)**
- **Down comer**
- **Automatic sprinkler system: Fire sprinkler system to be provided for GF covered car parking area (Basement is only for Underground water tanks & Grey Water Treatment Plant)**
- **Manually Operated Electric Fire Alarm System**
- **Terrace Tank over respective tower terrace: 25,000 lit fire water storage tank (on each block)**
- **Pump capacity at the terrace tank level with minimum pressure of 3.5 kg/cm²: = 900 L/min @ 35 mtr head provided for each block**





EVACUATION PLAN

Assembly Points



FIRE OPINION LETTER

Maheshkumar R. Mod
Regional Fire Officer



Gujarat State Fire Prevention Services
State Fire Prevention Service
Block no 14/3, GH Type,
Sector-22, Gandhinagar
Mobile No. +91 94279 55551
Email :- rfogandhinagar101@gmail.com

"WE SERVE TO SAVE"

No:SFPS/FIRE NOC/R-7/083/2021

Date :-08-07-2021

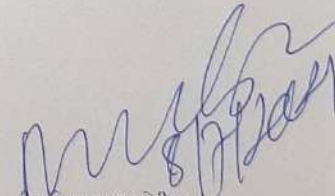
પ્રતિ,
કાર્પેપાલક ઇન્જનેરશ્રી,
અમદાવાદ અર્બન ડેવલોપમેન્ટ ઓથોરિટી,
ઉસ્માનપુરા, અમદાવાદ.

વિષય :- નકશા પર ફાયર સેફ્ટી અભિપ્રાય આપવા બાબત.
સંદર્ભ :- આપની અરજ તારીખ :- ૦૬/૦૭/૨૦૨૧.

ઉપરોક્ત વિષય અને આપશ્રી ની સંદર્ભ દર્શાવેલ અરજ અન્વયે જણાવવાનું કે ફાયરનલ પ્લોટ નં. ૩૧, ટી.પી. નં-૦૪, મોજે- સાણંદ, તા- સાણંદ, જી. અમદાવાદ, ખાતે રહેણાંક ઇમારત બ્લોક-૩૦(ગ્રાઉન્ડ ફ્લોર ઉપર ૦૭ માળ) બનાવવાના હેતુસર માંગવામાં આવેલ અભિપ્રાયમાં અમારા અભિપ્રાય મુજબની બાબતોને ધ્યાને લઈ અમલીકરણ કરવાનું રહેશે. તેમજ નેશનલ બિલ્ડિંગ કોડ ૨૦૧૬ મુજબ ફાયર સીસ્ટમ લગાવવાની રહેશે.

ઇમારતમાં ફિક્સ ફાયર ફાઇટીંગ સીસ્ટમ ઉપરાંત હોલોપિલ્ડર માં સ્પ્રિંકલર સીસ્ટમ કરવાની રહેશે. વધુમાં ઇમારતમાં અગર ગ્લાસ ફ્સાડ વાપરવામાં આવનાર હોય તો તે તમામ ફિક્સ ન રાખતા ઓપનેબલ લગાવવાના રહેશે. તેમજ સ્ટેર કેશ વેન્ડીલેટેડ રાખવાની રહેશે. અને ગુજરાત રાજ્ય અગ્નિ નિવારણ કાયદા કલમ ૧૨ હેઠળ ફાયર સેફ્ટી ઓફીસર રાખવાનાં રહેશે. ઇલેક્ટ્રીકલ કેબલોમાં ફાયર પેસીવ સીસ્ટમ કરવાની રહેશે. સરકારશ્રી લગત રત્તા મંડળ અને સક્ષમ અધીકારીઓ દ્વારા પ્રસિધ્ધ કરવામાં આવેલ તમામ નીયમો દીશાનિર્દેશો અને કાયદા મુજબ ફાયર સેફ્ટીનું પાલન કરવાનું રહેશે. વધુમાં ઇમારત બન્યા બાદ કોઈ અન્ય જોખમ જણાશે તો ફાયર અધીકારી ની સુચના મુજબ કરવાનું રહેશે. ઉપરોક્ત સુચનો અને આપેલ નકશામાં જણાવ્યા મુજબના રેખાચિત્રોનું અને સદર પત્રમાં જણાવ્યા મુજબ પાલન કરવાની સરતે સદર અભિપ્રાય આપવામાં આવે છે.




રીજીયનલ ફાયર ઓફીસર
સ્ટેટ ફાયર પ્રિવેન્શન સર્વિસીસ

h. Details of safety measures for the construction workers including provision of personal protection equipment

- **All the necessary Personal Protective Equipment (PPEs) such as safety helmets, ear plugs, safety goggles, Safety masks, gloves, jackets etc. will be provided to the construction workers as per their job profile & its usage will ensured and supervised.**
- **Training will be given to all workers on construction safety and environmental aspects.**
- **First aid facilities with first aid Kit will be provided and basic first aid training to supervisors will be given.**
- **Registration and provisions to be made to follow Building and other construction workers' (Regulation of Employment and Conditions of Services) Acts 1996 for the safety, health and welfare of construction workers.**

i. Details of registration and provisions to be made by the project proponent to follow Building and Other Construction Workers Acts and Rules

- Registered contractor will be hired by the project proponent. The Building and Other Construction Workers Act, 1996 and the Gujarat Building and other construction Workers Rules, 2003 will be followed.
- IS Codes to be followed during construction:
 - ✓ SP: 53 Safety code for the use, care & protection of hand operated tools.
 - ✓ IS: 818 Code of practice for safety & health requirements in electric and gas welding & cutting operations.
 - ✓ IS: 1989 (Part-II) Leather safety boots and shoes
 - ✓ IS: 3016 Code of practice for fire safety precaution in welding & cutting operation.
 - ✓ IS: 3764 Code of safety for excavation work.
 - ✓ IS: 4878-1968 By-laws for construction of cinema buildings.
 - ✓ IS: 4082 Recommendation for storage of construction materials at site.
 - ✓ IS: 7293 Safety code for working with construction machinery.
- A Safety supervisor will be appointed to check that IS codes are followed.

j. Details regarding payment of Cess as per the provisions of under the Building and Other Construction Works Acts and Rules

- Cess will be paid as per the provisions of The Building and other Construction Works Acts and Rules.

a. Water Conservation Measures:

Measures for reducing water demand during construction phase:

- To avoid wastage of curing water, MoEF&CC guidelines will be followed
- Curing water will be sprayed on concrete structures
- Concrete structure will be covered with thick cloth/gunny and then water will be sprayed on them

Measures for reducing water demand during operation phase:

- Monitoring of water use by provision of water meters
- Use of water saving fixtures such as low flow flushing systems, Low flow faucets, Pressure reducing device etc.
- Foam flow C.P. basin fittings
- Auto shut down pump at tanks
- Provision of water treatment plant & dual plumbing system.
- Reuse of treated sewage into toilet flushing & gardening purposes

b. Energy Conservation Measures:

- **Maximum use of natural lighting through architectural design.**
- **Use of low voltage & LED lighting fixtures.**
- **Use of Energy efficient motor & Pumps.**
- **Maximum use of aerated block.**
- **Roof top solar panels of 210 KW power generation capacity**
- **Solar Street light in common and landscape areas**

c. Top Soil Management Plan

- Estimated Top soil from site: approx. 2175 m³.
- Top soil will be stored at demarcated area within the project site and will be reused for green area development.

d. Excavated Earth Management

- Estimated total excavated earth: approx. 34200 m³ (including the top soil of 2175 m³)

Purpose	% Utilization	Quantity (m ³)
Greenbelt development	~ 6.4	2175
Internal roads and other paved area	~ 24.8	8487
Backfilling	~ 68.8	23538
Total	100	34200

- For Backfilling & levelling of site: approx. 43600 m³ of soil will be required during construction phase. Approx. 9400 m³ of Additional soil required for levelling of site will be purchased from outside.

d. Construction Debris Management:

Purpose	Generated Quantity (ton)	Utilization (ton)	Remarks
Construction debris	~ 100	~ 80	Backfilling, internal road development
Steel scrap	~ 20	-	Sold to vendors
Cement bag, packing material etc.	~ 15	-	Sold to vendors
Total	~ 135	~ 80	-

Balance Debris will be used for outer road development or filling in low lying area with prior permission.

e. Use of Eco friendly Building Construction Materials :

- Eco-friendly building construction materials such as fly-ash bricks, fly-ash blended concrete blocks, fly-ash paving blocks etc. will be used in construction works for infrastructure development.
- Use of lead free paints with high reflectivity.

f. Storm Water Management Plan:

- The rainwater will be collected through closed piped drains and conveyed into rainwater harvesting & recharging system.
- All storm water drains will be designed for adequate size and slope such that there shall not be any flooding in the premises.
- It shall be ensured that no wastewater shall enter into storm water drainage system.
- The overflow if any will be discharged into the municipal drainage line

g. Green Belt:

- Total green area: 4081.69 m² (16% of total plot area)
- Common plot area/Landscaping area: 3081.69 m²
- Green belt/Tree covered area (in periphery of the project site): 1000 m²
- Nos. of trees to be planted: 630 nos.
- Type of trees for plantation in project site is following:

Scientific name	Common name
<i>Delonix regia</i>	Gulmohar
<i>Neolamarckia cadamba</i>	Kadam Tree
<i>Azadirachta indica</i>	Limbdo Tree
<i>Alstonia scholaris</i>	Saptaparvi Tree
<i>Polyalthia longifolia</i>	Asopalav
<i>Cassia fistula</i>	Garmalo
<i>Bougainvillea spectabilis</i>	Bougainvillea
<i>Syzygium cumini</i>	Jambudo

L. Other Aspects

h. Rainwater Harvesting Scheme:

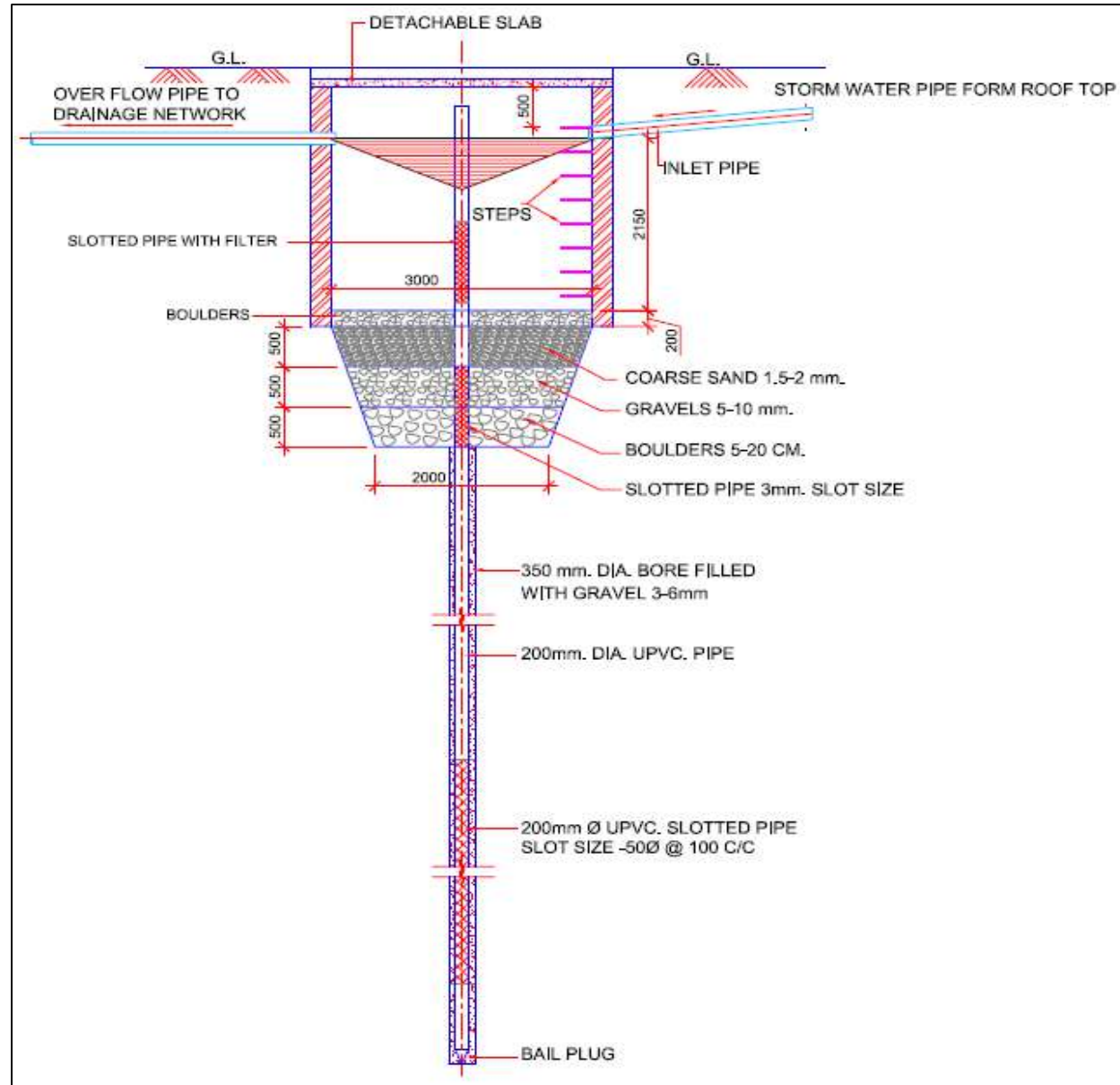
- Source : Rainwater from rooftop and other paved areas
- Total Plot area: 25186.00 m²
- Nos. of Rainwater Harvesting Pits to be provide (as per GDCR): $25186.00/4000.00 = 07$ nos.
- Detail of maximum rainwater/ run-off available from the proposed project area:

Description of Area	Area (m ²)	Runoff coefficient	Average Rainfall Intensity (m/annum)	Maximum Rainfall recorded in a Day (m/day)	Maximum Rainwater available (m/Annum)	Maximum Rainwater available (m/day)
C1	C2	C3	C4	C5	C6=C2*C3*C4	C7=C2*C3*C5
Roof area	7245.7	0.85	0.750	0.414	4619.1	2549.8
Road Area & Paved area	13858.61	0.65	0.750	0.414	6756.1	3729.4
Common plot area/ Landscaping area + Green belt area	3081.69 + 1000 = 4081.69	0.15	0.750	0.414	459.2	253.5
Total	25186.00	-	-	-	11834.4	6532.7

Note: Rainfall data from long term IMD data for Ahmedabad Station for the period of 1981-2010; Co-efficient as per CGWA; Calculations are based on methodology given in "Concepts and practices for Rainwater Harvesting by CGWA – 2001".

L. Other Aspects

Percolation well Design for Rain Water recharging:



i. Details of basic amenities and welfare facilities for construction workers:

- **About 150 nos. of temporary workers will be hired for the construction activities.**
- **Temporary housing facility will be provided at site with all the basic amenities for ~ 50 nos. of construction workers and ~ 100 workers will be hired from local areas.**
- **All the necessary basic amenities will be provided to construction workers at site throughout the construction phase such as clean and hygienic accommodation, proper sanitation facilities, drinking water facility, first aid facilities, adequate PPEs, etc.**
- **Welfare facility will be provided as per Gujarat Building and other Construction workers Act & Rules and Regulations including provision of first aids.**

L. Other Aspects

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
1.	Rooms (Residential/ Commercial Building)	Minimum Height	2.8 m	1) 2.75 m 2) 2.4 m in case of air conditioned room	2.8 m	3.0 m
		Minimum Size	---	1) 9.5 m ² with minimum 2.4 m width where there is only one room 2) Where there are two rooms, one shall not be less than 9.5 m ² and other not less than 7.5 m ² , with a minimum width of 2.1 m ² .	As per the NBC	As per the NBC

L. Other Aspects

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
2.	Kitchen	Minimum Height	---	Not less than 2.75 m	2.8 m	3.0 m
		Minimum Size	---	1) 5 m ² with minimum 1.8 m width, where separate dining area is provided 2) Where there is a separate store, the area of kitchen may be reduce to 4.5 m ² 3) A kitchen, which is intended for use as a dining area also, shall have a floor area of not less than 7.5 m ² with a min. width of 2.1 m	As per the NBC	As per the NBC

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
3.	Bathroom & Water Closets	Minimum Height	2.0 m	2.1 m	2.1 m	3.0 m
		Minimum Size	---	1) The area of bathroom shall not be less than 1.8 m ² with a min. width of 1.2 m 2) The area of water-closet shall be 1.1 m ² with a min. width of 0.9 m 3) Where bath and water-closet are combined, its floor area shall not be less than 2.8 m ² with a min. width of 1.2 m	As per the NBC	As per the NBC

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
4.	Staircase /Exit	4(a) No. of Staircases	---	All buildings which are 15 m in height or above, having area more than 500 m ² on each floor shall have a min. of two staircases.	As per the NBC	Total 7 nos. of staircase provided in one building (1 in each block). Each floor have provided with required nos. of stairs as per NBC.
			---	All buildings used as educational, industrial, storage and hazardous occupancies and mixed occupancies, having area more than 500 m ² on each floor shall have a min. of two staircases.	As per the NBC	NA

L. Other Aspects

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
4.	Staircase/Exit	4(b) Max. Travel Distance	1) Residential , Educational, Institutional and hazardous Occupancies; 22.5 m 2) Assembly, Business, Mercantile, Industrial and storage Building : 30 m	For type 1 & 2 buildings: 1) Residential , Educational, Institutional, Assembly, Business, Mercantile: 30 m 2) Industrial : 45 m 3) Storage : 30 m 4) Hazardous : 22.5 m For type 3 & 4 buildings: 1) Residential, Educational, Institutional : 22.5 m 2) Assembly, Business Mercantile : 30 m 3) Industrial, Storage Hazardous : Construction of type 3 & 4 is not permitted	30 m Maximum	30 m

L. Other Aspects

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
4.	Staircase/Exit	4 (c) Min. Width	1) Residential unit occupied by single family & constructed up to 3 floors: 1 m 2) Low Rise Residential Building : 1.2 m 3) In buildings having 6 Tenements on floor : 1.5 m 4) Hotels/High Rise Residential Buildings : 1.5 m	1) Residential building : 1 m 2) Hotel Buildings: 1.5 m 3) Assembly buildings like auditoria, Theatres and Cinemas : 2 m 4) Educational buildings: 1.5 m 5) Institutional buildings : 2 m 6) All other buildings : 1.5 m	1) Low Rise Residential Bldg: 1.2 m 2) In buildings having 6 tenements on each floor:1.5 m 3) High Rise Residential/ Hotels/ Educational Buildings : 1.5 m 4) Institutional buildings/Assembly buildings like auditoria, theatres and cinemas2 m 5) All other buildings: 1.5 m	1.50 m

L. Other Aspects

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
4.	Staircase/ Exit	4 (d) minimum tread Width	1) Residential Buildings: 250 mm 2) Other buildings: 300 mm	1) Residential Buildings: 250 mm 2) Other buildings: 300 mm	1) Residential Buildings: 250 mm 2) Other buildings: 300 mm	300 mm
		4 (e) Maximum riser height	1) Residential Buildings: 190 mm 2) Other buildings: 160 mm No flight shall contain more than 12 risers	1) Residential Buildings: 190 mm 2) Other buildings: 150 mm The risers shall be limited to 12 per flight	1) Residential Buildings: 190 mm 2) Other buildings: 150 mm No flight shall contain more than 12 risers	160 mm; 9 risers
5.	Entry and exit for persons and vehicles	-	-	-	There shall be separate entry and exit gates for movement of person and vehicles	Two separate entry and exit for movement of person and vehicles.

j. General Requirements of Building

Sr. No.	Part of the Building	Particulars	Requirement as per the GDCR	Requirement as per the NBC	Requirement of the SEAC	Provision by the project Proponent
6	Peripheral greenbelt and margin	-	-	-	There shall be one meter width for tree plantation and at least 3 m margin for fire tender movement through out the periphery	1.0 meter width for tree plantation and 6.0 m & 9.0 m for fire tender movement.
7	Overall green belt area	-	Five tree per 200 m ² of the plot area	-	One tree at distance of 2 to 3 meter throughout the periphery of the project premises and common plot.	630 nos. of tress will be planted

Corporate Environmental Responsibility



- As per MoEF&CC office memorandum no. F. no. 22-64/2017-IA-III dated 01.05.2018, the CER budget for 5 years comes to **INR 1.68 Crore i.e. 2.0% of total project cost of 84 Crore.**
- Budget allocation for Corporate Environment Responsibility activity for 5 years is as given in table below:

S. No.	Activities*	Location	Budget in %	Budget Amount (INR in Crore)
1.	Education			
1.1	CCTV with computer system	Model school	40 %	0.67
1.2	Approach road from Main road to school			
1.3	RO System	Model School, Kasturba Gandhi Balika Vidhyalay		
1.4	Music system with mic	Model school		
1.5	Chairs and tables			
1.6	Benches for students			
1.7	Wash basin and toilet renovation	Kasturba Gandhi Balika Vidhyalay		
1.8	Compound wall	Kasturba Gandhi Balika Vidhyalay		
1.9	Sports facility	Model School, Kasturba Gandhi Balika Vidhyalay		
2.	Ground Water recharge			
2.1	Roof top rainwater harvesting in school	Model School, Kasturba Gandhi Balika Vidhyalay	20 %	0.34
3.	Skill Development			
3.1	Skill enhancement program for girls	Kasturba Gandhi Balika Vidhyalay	40 %	0.67
	Total		100 %	1.68

Note: *Suggested activities are based on primary data collected in the field



FGD at Model School



FGD at Kasturba Gandhi Balika Vidhyalay

ENVIRONMENT MANAGEMENT PLAN



Environmental Budget (For Construction & Operation phase):

Sr. No.	Head	Approximate capital cost per annum (Rs. In lacs)	Approximate recurring cost per annum (Rs. In lacs)	Basis for cost estimates	
				Capital cost	Recurring cost
1.	Air Pollution control	15.0	0.50	Barricading along the periphery of construction site. DG set Installation along with stack.	Dust suppression measures (for water requirement for sprinkling), maintenance of machineries & equipment during construction phase. Maintenance of DG set. Periodic ambient air quality & Stack emission monitoring.
2.	Water pollution control	80.0	2.5	Sanitation facility during construction phase. Installation of GWTP & pipe network.	Maintenance of GWTP & pipe network during operation phase, Periodic water quality monitoring.
3.	Solid and hazardous waste management	50.0	1.5	Debris management, provision of Bins for waste collection, Installation of OWC.	Maintenance of OWC, manpower for waste management.
4.	Noise pollution Management	-	0.10	-	Cost of annual noise monitoring
4.	Environmental Monitoring	--	0.50	-	The recurring cost will be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.
5.	Rain water Harvesting	25.0	0.15	Construction for percolation wells & Rain water recharge system.	Maintenance of collection system, treatment, recharge well & storm water drains.
6.	Green Belt	5.0	0.50	For Landscape/ green belt development.	Maintenance of green area & for manpower.
7.	Risk & Hazard/ Occupational Health & safety	115	1.5	Installation of fire-fighting system.	PPEs maintenance/breakage cost, Annual Health checkups or other facilities for workers during construction phase. Maintenance of fire-fighting system.
8.	Solar & Energy saving	93	0.50	Installation of solar panels & supporting network.	Maintenance of Solar panels.
8.	CER	168	-	Fund allocated for CER activities.	Annual cost for CER activities.
TOTAL		551	7.75		



An Environment Management Cell (EMC) will be responsible for implementation of the post project-monitoring plan for this project. The composition of the Environment Management Cell and responsibilities of its various members are given as below:

S. No.	Designation	Proposed responsibility
1.	Project Developers (Partners)	Overall responsibility for environment management, environmental policy and directions & decision making for all environmental issues.
2.	Site Engineer	Hire a consultant/accredited laboratory and Ensuring legal compliance by property undertaking activities as laid down by various regulatory agencies from time to time and interacting with the same.
3.	Site Supervisor	Secondary responsibility for environment management, Ensure environmental monitoring as per appropriate procedures and norms. Responsibility for environment Health & safety.

****Note: The proposed project will be managed by developers during construction phase and for the first five years after commencement of operational phase. After that it will be handover to the society committee.***

NABET CERTIFICATE – EIA CONSULTANT

25	Building and construction projects	38	8 (a)	B
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Quality Council of India
National Accreditation Board for
Education & Training

CERTIFICATE OF ACCREDITATION

Kadam Environmental Consultants
871/B/3, GIDC Makarpura, Vadodara – 390010, Gujarat

Accredited as **Category - A** organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA-EMP reports in the following Sectors:

Sl. No.	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including Open cast/ Underground mining	1	1 (a) (i)	A
2	Offshore and onshore oil and gas exploration, development & production	2	1 (b)	A
3	Thermal power plants	4	1 (d)	A
4	Coal Washeries	5	2 (a)	A
5	Mineral beneficiation including pelletisation	7	2 (b)	A
6	Metallurgical Industries (ferrous & non ferrous)	8	3 (a)	B
7	Petroleum refining industry	10	4 (a)	A
8	Chlor-alkali industry	13	4 (d)	A
9	Chemical Fertilizers	16	5 (a)	A
10	Pesticides industry and pesticide specific intermediates (excluding formulations)	17	5 (b)	A
11	Petro-chemical complexes	18	5 (c)	A
12	Manmade fibers manufacturing	19	5 (d)	A
13	Petrochemical based processing	20	5 (e)	A
14	Synthetic organic chemicals industry	21	5 (f)	A
15	Integrated paint industry	23	5 (h)	A
16	Oil & gas transportation pipeline	27	6 (a)	A
17	Isolated storage & handling of hazardous chemicals	28	6 (b)	B
18	All ship breaking yards including ship breaking units	30	7 (b)	A
19	Industrial estates/ parks/ complexes/ Areas, export processing zones (EPZs), Special economic zones (SEZs), Biotech parks, Leather complexes	31	7 (c)	B
20	Common hazardous waste treatment, storage and disposal facilities (TSDFs)	32	7 (d)	A
21	Bio-medical waste treatment facilities	32A	7 (da)	B
22	Ports, harbours, break waters and dredging	33	7 (e)	A
23	Common effluent treatment plants (CETPs)	36	7 (h)	B
24	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B
25	Building and construction projects	38	8 (a)	B
26	Townships and Area Development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RA AC minutes dated July 05, 2019 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/19/1025 dated August 05, 2019. The accreditation needs to be renewed before the expiry date by Kadam Environmental Consultants, Vadodara, following due process of assessment.

Sr. Director, NABET
Dated: August 05, 2019

Certificate No.
NABET/ EIA/1922/ RA 0138

Valid till
25.05.2022

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

THANK YOU

CA CERTIFICATE & WORK ORDER BY AUDA TO CONTRACTOR

PRITESH SHAH & Co.

Chartered Accountant



TO WHOMSOEVER IT MAY CONCERN

This is to certify that the tender amount of Rs. 83,51,23,527/- (Eighty-Three Crore Fifty-One Lakh Twenty-Three Thousand Five Hundred Twenty-Seven) vide Job no. 09/2020-2021 for proposed construction work under PMAY-EWS-II, 756 units at T.P.S. No. 4/A, FP-31 in Sanand, District Ahmedabad by Jyoti - Infratech Co., Mangaldas Estate, Amraiwadi, Ahmedabad.

For Pritesh Shah & Co
Chartered Accountants



Proprietor
M.No: 147196
FRN: 134952W

Date: 19/11/2021
Place: Ahmedabad

UDIN: 21147196AAAAKZ8476

411, Scarlet Business Hub, Opp. Ankur School, Paldi, Ahmedabad-380007.

93273 01956 capritesh23@gmail.com



અમદાવાદ શહેરી વિકાસ સત્તામંડળ



તારીખ : 08 OCT 2021

પત્ર નંબર :

સેલ / જોબ નં.: 06(2021-22) No 10466

R.P.A.D./ વર્ક ઓર્ડર

પતિ,
Jyoti Infratech Company,
Mangaldas Estate,
Sayanarayan Nagar,
Amraiwadi, Ahmedabad-380026.

વિષય :- કન્સ્ટ્રક્શન ઓફ એફીડેબલ હાઉસીંગ ડેવલપમેન્ટ ૭૫૬ યુનિટ(ΕWS-II) એટ ટી.પી.એસ. નં.:૦૪/એ, પ્રાઇનલ પ્લોટ નં.: ૩૧, સાણંદ-અમદાવાદ ઇન ઓફ યેરીયા (જોબ નં.:૦૬/૨૦૨૧-૨૨)

સંદર્ભ :- (૧) આપનું ટેન્ડર.
(૨) આપનો નેગોશીએશનનો પત્ર તા.૧૮.૦૮.૨૦૨૧
(૩) નોંધ ઉપર માન. ચેરમેનશ્રીની મંજૂરી તા.૨૭.૦૮.૨૦૨૧.

મહાશય,

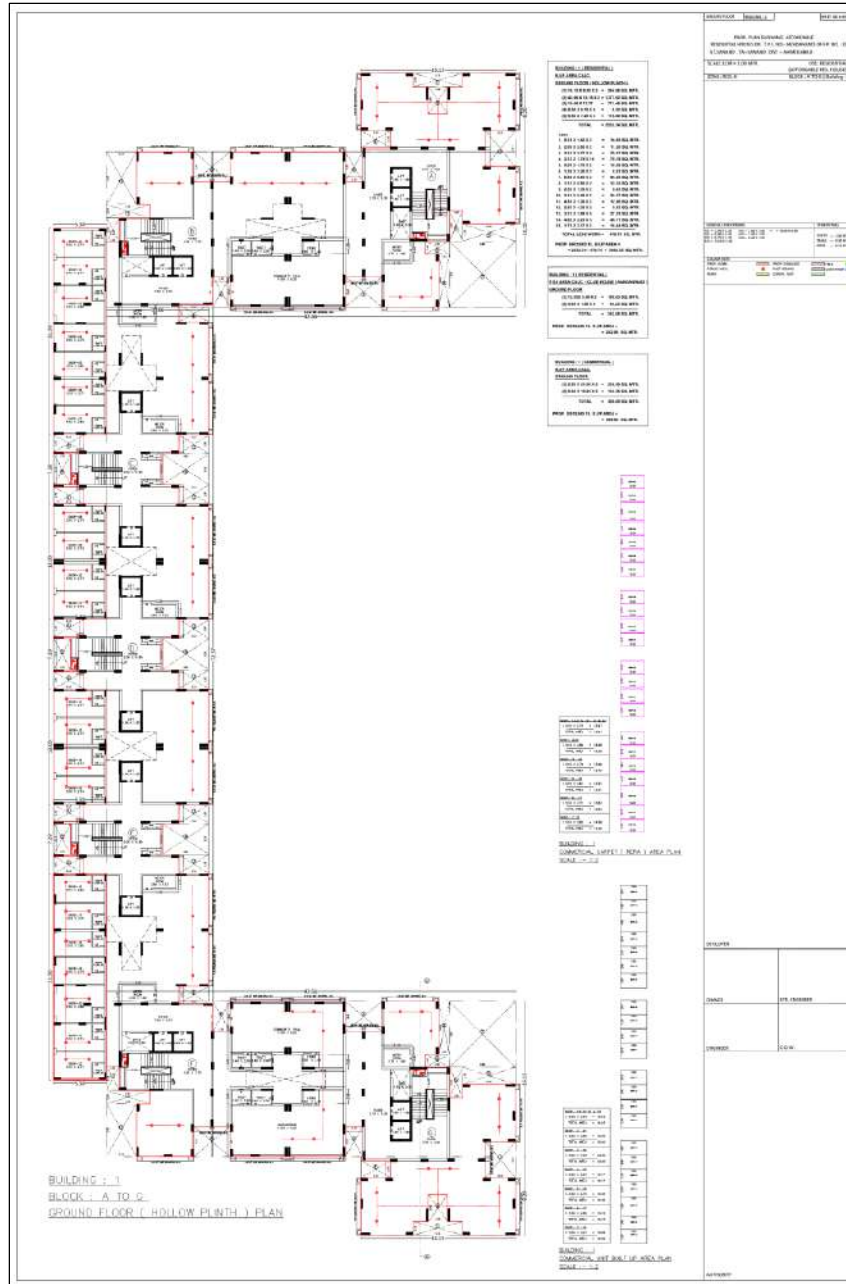
ઉપરોક્ત વિષય અન્વયે સંદર્ભિત પત્ર મુજબ જણાવવાનું કે, કન્સ્ટ્રક્શન ઓફ એફીડેબલ હાઉસીંગ ડેવલપમેન્ટ ૭૫૬ યુનિટ(ΕWS-II) એટ ટી.પી.એસ. નં.:૦૪/એ, પ્રાઇનલ પ્લોટ નં.: ૩૧, સાણંદ-અમદાવાદ ઇન ઓફ યેરીયા (જોબ નં.:૦૬/૨૦૨૧-૨૨)કામની અંદાજીત રકમ રૂ.૬૪,૪૮,૬૮,૦૦૦/- કરતાં (+) ૨૯.૫૦% ઊંચા ભાવે નેગોશીએશન બાદ ભરેલા છે. જે ગ્રાભ રાખી મંજૂર કરવામાં આવે છે. જેથી હવે આપનું ટેન્ડર રૂ.૮૩,૫૧,૨૩,૫૨૭.૭૫ નું થાય છે.

- આપે લેબર એન્ડ પ્રમાણ નોંધણી તથા લાઇસન્સ મેળવીને એક્ટીવ નિયમાનુસાર કાર્યવાહી કરવાની રહેશે અને તે અંગેની સઘળી જવાબદારી આપની રહેશે.
- ટેન્ડરમાં દર્શાવેલ જથ્થા કરતા વધારે જથ્થામાં અથવા તો વધારાનું કામ કરવાનું થાય તો પૂર્વ મંજૂરી મેળવ્યા બાદ જ કામ હાથ ધરવાનું રહેશે.
- આપે ભરેલ ઓન લાઇન ટેન્ડર, ડિપોઝીટનો પત્ર વિગેરે કારરખતનો એક ભાગ રહેશે.
- સદર કામ માટે વીમાની જોગવાઈ કરવાની રહેશે.
- મકાન અને અન્ય બાંધકામ કામચોગી(રોજગારીનું નિયમ અને નોકરીની શરતો) અધિનિયમ-૧૯૮૬ હેઠળ દરેક માલિકે બાંધકામ પ્રવૃત્તિ શરૂ કરવાના ૩૦ દિવસ પહેલાં સદર કામદાર હેઠળના નિયમ કોર્મ-૪ મુજબની નોટીસ તેમજ બાંધકામ શરૂ કર્યાના ૬૦ દિવસના ઉકત કામદાર હેઠળ સાઇટની નોંધણી નિયામકશ્રી, ઔદ્યોગિક સલામતી અને સ્વાસ્થ્યની કચેરીમાં કરાવવાની રહેશે.
- આથી સદર કામનો વર્ક ઓર્ડર આપવામાં આવે છે અને સદર કામ નાચલ કાર્યપાલક ઇન્જનેરશ્રીની દેખરેખ હેઠળ તાત્કાલિક શરૂ કરી કારરનામાંની શરતો મુજબ નીચત સમય મર્યાદા રદ(ઓવીસ) માસમાં સાથે પૂરું કરવા જણાવવામાં આવે છે.

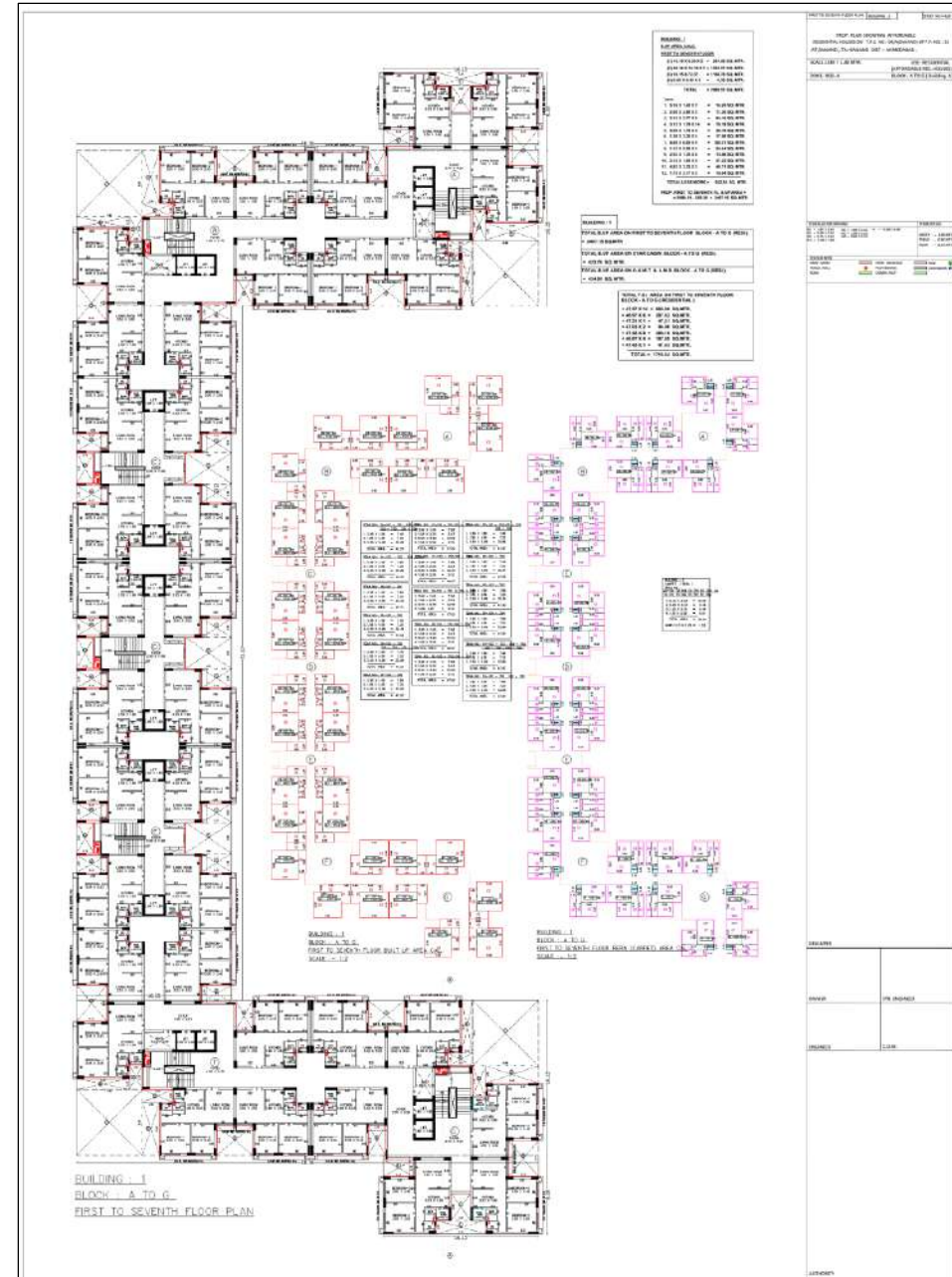

કાર્યપાલક ઇન્જનેર
અમદાવાદ શહેરી વિકાસ સત્તામંડળ
અમદાવાદ

GF Plan & 1st to 7th Floor Plan (Building 1)

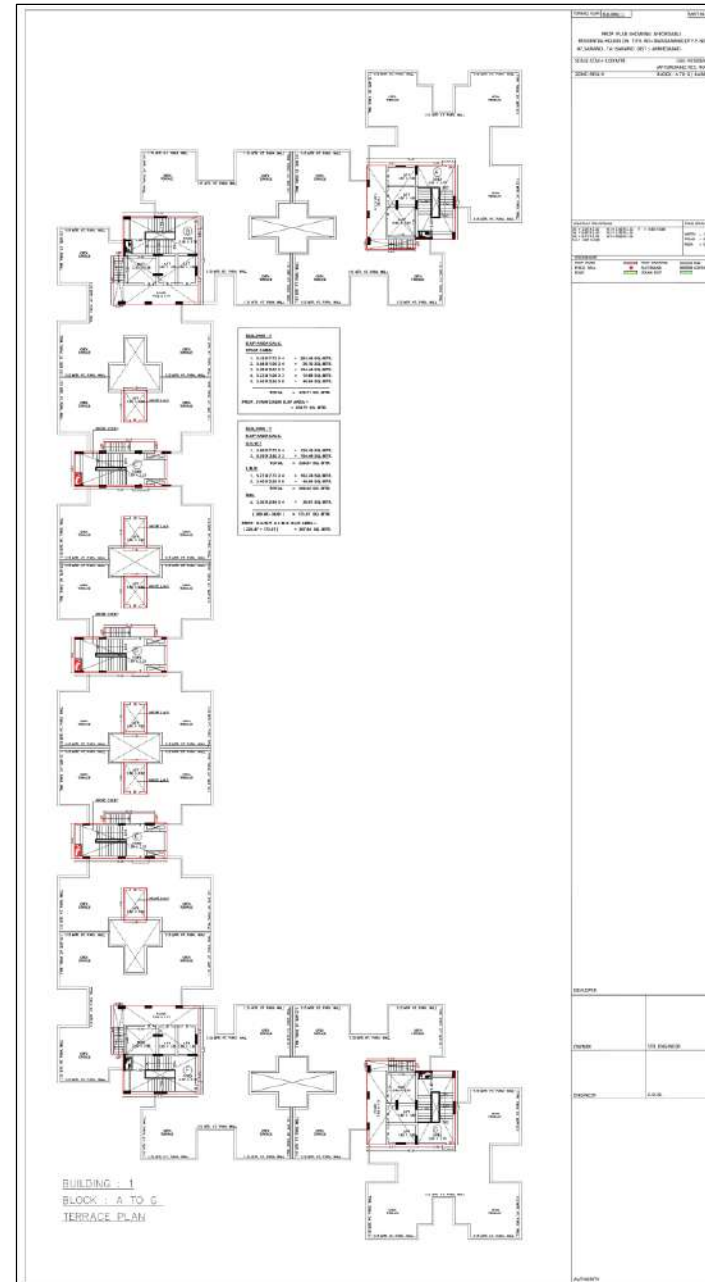
**Building 1: GF
(Hollow plinth)
plan**



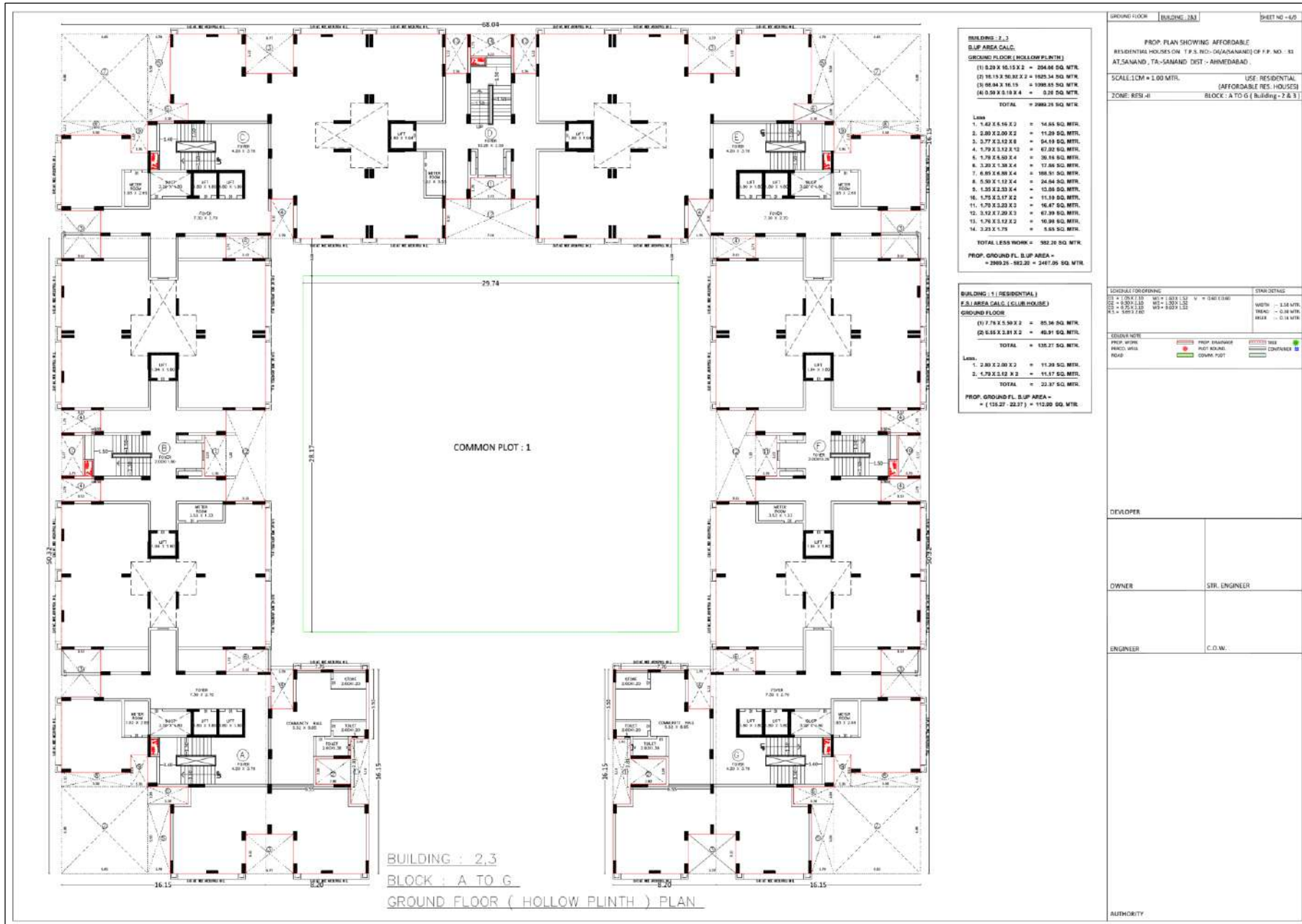
**Building 1: 1st
to 7th Floor plan**



Terrace Plan (Building 1)



Ground Floor Plan (Building 2 & 3)



1st to 7th Floor Plan (Building 2 & 3)





Maheshkumar R. Mod
Regional Fire Officer



सत्यमेव जयते

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State Fire Prevention Service
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"WE SERVE TO SAVE"

NofSFPS/FIRE NOC/R-7/083/2021

Date :-08-07-2021

શ્રી,

કાર્પાલક ઇન્જનેરશ્રી,

અમદાવાદ અર્બન ડેવલોપમેન્ટ ઓથોરિટી,

ઉસ્માનપુરા, અમદાવાદ.

વિષય :- નકશા પર ફાયર સેફ્ટી અભિપ્રાય આપવા બાબત.

સંદર્ભ :- આપની અરજી તારીખ :- ૦૬/૦૭/૨૦૨૧.

ઉપરોક્ત વિષય અને આપશ્રી ની સંદર્ભ દર્શાવત અરજી અન્વયે જણાવવાનું કે ફાયર નલ પ્લોટ નં. ૩૧, ટી.પી. નં-૦૪, મોજે- સાલુંદ, તા- સાલુંદ, જી. અમદાવાદ, ખાતે રહેણાંક ઇમારત બ્લોક-૩૦(ગ્રાઉન્ડ ફ્લોર ઉપર ૦૭ માળ) બનાવવાના લેનુસર માંગવામાં આવેલ અભિપ્રાયમાં અમારા અભિપ્રાય મુજબની બાબતોને ધ્યાને લઈ અમલીકરણ કરવાનું રહેશે. તેમજ નેશનલ બિલ્ડીંગ કોડ ૨૦૧૬ મુજબ ફાયર સીસ્ટમ લગાવવાની રહેશે.

ઇમારતમાં ફિક્સ ફાયર ફાઇટીંગ સીસ્ટમ ઉપરાંત હોલોપિલ્-થ માં સ્પ્રિંકલર સીસ્ટમ કરવાની રહેશે. વધુમાં ઇમારતમાં અગર ગ્લાસ ફ્સાડ વાપરવામાં આવનાર હોય તો તે તમામ ફિક્સ ન રાખતા ઓપનેબલ લગાવવાના રહેશે. તેમજ સ્ટેર કેશ વેન્ટીલેટેડ રાખવાની રહેશે. અને ગુજરાત રાજ્ય અગ્નિ નિવારણ કાયદા કલમ ૧૨ હેઠળ ફાયર સેફ્ટી ઓફીસર રાખવાનાં રહેશે. ઇલેક્ટ્રીકલ કેબલોમાં ફાયર પેસ્ટીવ સીસ્ટમ કરવાની રહેશે. સરકારશ્રી લગત સ્તા મંડળ અને સહાય અધીકારીઓ દ્વારા પ્રશિષ્ઠ કરવામાં આવેલ તમામ નીયમો દીધાનિદેસો અને કાયદા મુજબ ફાયર સેફ્ટીનું પાલન કરવાનું રહેશે. વધુમાં ઇમારત બન્યા બાદ કોઈ અન્ય જોખમ જણાશે તો ફાયર અધીકારી ની સુચના મુજબ કરવાનું રહેશે. ઉપરોક્ત સુચનો અને આપેલ નકશામાં જણાવ્યા મુજબના રેખાચિત્રોનું અને સદર પત્રમાં જણાવ્યા મુજબ પાલન કરવાની સરતે સદર અભિપ્રાય આપવામાં આવે છે.



(Signature)
ફાયર ઓફીસર
સ્ટેટ ફાયર પ્રિવેન્શન સર્વિસીસ