	Table 2.11: Laboratory Test Result on the Soil Sample Collected from BH-11																							
						Cl	ay										Sie	eve A	naly	ysis		Dir She	ect ear	
Depth of Sample below E.G.L. (m)	SPT of Sample	Type of Sample	Engineering Description of Soil	NMC(%)	LL (%)	PL (%)	Id	Consistency, I _C	Specific Gravity, G	Void Ratio, e	Bulk Density, kN/m ³	Dry Density, kN/m ³	Free Swell (%)	Swelling Pressure (kPa)	Relative Density/ Consistency	Gravel (%)	Coarse (%)	Medium (%)	Fine (%)	Silt (%)	Clay (%)	c (kN/m ²)	þ (Deg.)	IS-Classification
0.00 to 0.50	-	DS	Silty Sandy Gravels	-	-	-	-	-	2.66	-	19.7	-	-	-	Dense	56	0	13	22	9	0	-	-	GP
0.50 to 3.00	>100	SS	Weathered Rock	-	-	-	-	-	2.65	-	20.4	-	-	-	V.Dense	44	17	16	21	2	0	0.80	42.20	SDR

	Table 2.12: Laboratory Test Result on the Soil Sample Collected from BH-12																							
						Cl	ay										Sie	ve A	nal	ysis		Dir She	ect ear	
Depth of Sample below E.G.L. (m)	SPT of Sample	Type of Sample	Engineering Description of Soil	NMC(%)	TT (%)	DT (%)	Id	Consistency, I _C	Specific Gravity, G	Void Ratio, e	Bulk Density, kN/m ³	Dry Density, kN/m ³	Free Swell (%)	Swelling Pressure (kPa)	Relative Density/ Consistency	Gravel (%)	Coarse (%)	Medium (%)	Fine (%)	Silt (%)	Clay (%)	c (kN/m ²)	þ (Deg.)	IS-Classification
0.00 to 0.60	-	DS	Silty Clay	48	89	21	68	0.6	2.68	1.3	14	-	80	-	Soft	0	0	0	0	15	85	-	-	СН
0.60 to 1.60	57	SS	Silty Clayey Fine Sand mixed with Lime Nodules	-	-	-	-	-	2.65	-	20.3	-	-	-	Dense	19	0	0	56	10	15	10.00	42.05	SM
1.60 to 3.00	>100	SS	Weathered Rock	-	-	-	-	-	2.64	-	21.1	-	-	-	V.Dense	34	14	21	20	11	0	4.40	42.20	SDR

	Table 2.13: Laboratory Test Result on the Soil Sample Collected from BH-13																							
						Cl	ay										Sie	ve A	naly	ysis		Dir She	ect ar	
Depth of Sample below E.G.L. (m)	SPT of Sample	Type of Sample	Engineering Description of Soil	NMC(%)	LL (%)	PL (%)	Id	Consistency, I _C	Specific Gravity, G	Void Ratio, e	Bulk Density, kN/m ³	Dry Density, kN/m ³	Free Swell (%)	Swelling Pressure (kPa)	Relative Density/ Consistency	Gravel (%)	Coarse (%)	Medium (%)	Fine (%)	Silt (%)	Clay (%)	c (kN/m ²)	∳ (Deg.)	IS-Classification
0.00 to 1.40	9	SS	Silty Clay	29	80	16	64	0.8	2.67	0.8	17	-	80	-	Stiff	0	0	0	0	20	80	60.00	8.00	СН
1.40 to 2.80	73	SS	Silty Fine Sand mixed with kankars	-	-	-	-	-	2.65	-	20.3	-	-	-	V.Dense	28	0	0	58	14	0	5.60	42.00	SM
2.80 to 4.00	>100	SS	Weathered Rock	-	-	-	-	-	2.63	-	21.1	-	-	-	V.Dense	39	11	16	28	6	0	2.40	42.30	SDR

	Table 2.14: Laboratory Test Result on the Soil Sample Collected from BH-14																							
						Cl	ay										Sie	ve A	nal	ysis		Dir She	ect ear	
Depth of Sample below E.G.L. (m)	SPT of Sample	Type of Sample	Engineering Description of Soil	NMC(%)	LL (%)	PL (%)	Id	Consistency, I _C	Specific Gravity, G	Void Ratio, e	Bulk Density, kN/m ³	Dry Density, kN/m ³	Free Swell (%)	Swelling Pressure (kPa)	Relative Density/ Consistency	Gravel (%)	Coarse (%)	Medium (%)	Fine (%)	Silt (%)	Clay (%)	c (kN/m ²)	∳ (Deg.)	IS-Classification
0.00 to 0.40	-	DS	Filled Up Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.40 to 0.90	-	DS	Silty Clay mixed with lime	41	90	16	74	0.7	2.68	1.1	13	-	85	-	Soft	22	0	0	0	11	67	-	-	СН
0.90 to 3.50	>100	SS	Weathered Rock	-	-	-	-	-	2.65	-	21.1	-	-	-	V.Dense	45	19	11	17	8	0	3.20	42.50	SDR

	Table 2.15: Laboratory Test Result on the Soil Sample Collected from BH-15																							
						Cl	ay										Sie	ve A	naly	ysis		Dir She	ect ear	
Depth of Sample below E.G.L. (m)	SPT of Sample	Type of Sample	Engineering Description of Soil	NMC(%)	LL (%)	PL (%)	Id	Consistency, I _C	Specific Gravity, G	Void Ratio, e	Bulk Density, kN/m ³	Dry Density, kN/m ³	Free Swell (%)	Swelling Pressure (kPa)	Relative Density/ Consistency	Gravel (%)	Coarse (%)	Medium (%)	Fine (%)	Silt (%)	Clay (%)	c (kN/m ²)	þ (Deg.)	IS-Classification
0.00 to 0.30	-	DS	Silty Sandy Gravels	-	-	-	-	-	2.66	-	19.1	-	-	-	Dense	61	0	10	25	4	0	-	-	GP
0.30 to 2.50	>100	SS	Weathered Rock	-	-	-	-	-	2.65	-	20.5	-	-	-	V.Dense	41	15	17	24	3	0	1.20	42.50	SDR

Table 2.16: Chemical Analysis Results conducted on Water/Soil Samples collected from BH-01 to BH-15											
Location	Depth of Sample below E.G.L. (m)	рН	Chlorides (ppm)	Sulphates (ppm)							
BH-01	3.00	7.71	299.19	336.58							
BH-02	3.00	7.71	303.64	341.59							
BH-03	3.00	7.71	308.41	346.96							
BH-04	3.00	7.71	305.47	343.65							
BH-05	3.00	7.71	299.11	336.49							
BH-06	3.00	7.71	296.18	333.20							
BH-07	3.00	7.71	301.24	338.89							
BH-08	3.00	7.71	295.33	332.24							
BH-09	3.00	7.71	286.44	322.24							
BH-10	3.00	7.71	285.61	321.31							
BH-11	3.00	7.71	291.55	327.99							
BH-12	3.00	7.71	311.28	350.19							
BH-13	1.40	7.71	296.18	333.20							
BH-14	3.00	7.71	311.47	350.40							
BH-15	3.00	7.71	315.68	355.14							

CHAPTER-3

SUB-SURFACE STRATIFICATION

3.0 Preamble

The sub surface stratification at borehole locations, with respect to foundation/geotechnical engineering application are derived based on the visual identification, laboratory classification tests and field in-situ strength tests. Further, the strength parameters are estimated based on the in-situ strength test results as per the following correlation.

- * For Coarse Grained Samples, Ref. Fig.1, IS: 6403 to estimate Angle of Shearing Resistance.
- * For Fine Grained Samples, Ref. Terzaghi & Peck, 1948, to estimate Unconfined Compressive Strength.

3.1 Sub Surface Stratification:

 3.1.1 Soil Profile at BH-01 Location (At BH-01 Location, as presented in Site plan)
* Layer-1 (from E.G.L to 0.50m depth) Type of Strata

Soft Disintegrated Rock Colour Thickness of Layer 0.50m SPT of the layer **Relative Density** Dense Angle of Shearing Resistance, 00000000000-Layer-2 (from 0.50m to 3.00m depth) Type of Strata Weathered Rock Colour Thickness of Layer 2.50m SPT of the layer >100 Relative Density Very Dense Angle of Shearing Resistance, 000000042.500

Ground Water

No ground water table was encountered within the explored depth of investigation in the second week of September 2018.

3.1.2	Soil Profile at BH-02 Location	
	(At BH-02 Location, as presented in Sit	te plan)
*	Laver-1 (from E.G.L to 1.95m depth)	
	Type of Strata	Soft Disintegrated Rock
	Colour	-
	Thickness of Laver	0.70m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Pasistance	
*	Angle of Shearing Resistance,	
	Type of Strate	Weathard Pack
	Colour	Weathered Nock
		- 2.90m
	CDT of the lover	2.00111
	SPT OF LITE LAYER	>100 Very Dense
	Relative Density	
	Angle of Snearing Resistance,	
	Ground Water	
	No ground water table was encountered	within the explored depth of investigation in
	the second week of September 2018.	
3.1.3	Soil Profile at BH-03 Location	(
4	(At BH-03 Location, as presented in Si	te plan)
^	Layer-1 (from E.G.L to 0.50m depth)	
	Type of Strata	Silty Sandy Clay
	Colour	Brownish
	Thickness of Layer	0.50m
	SPT of the layer	-
	Consistency	Soft
	Un-drained Cohesion, Cu	-
*	Layer-2 (from 0.50m to 0.90m depth)	
	Type of Strata	Silty Clayey Fine Sand
		mixed with lime
	Colour	Greyish to Whitish
	Thickness of Layer	0.40m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	-0000000000-
*	Layer-3 (from 0.90m to 3.50m depth)	
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Laver	2.60m
	SPT of the laver	>100
	Relative Density	Very Dense
	Angle of Shearing Resistance	
*	Laver-4 (from 3 50m to 4 50m denth)	
	Type of Strata	Soft Rock
	Colour	
	Thickness of Laver	- 1.00m
	SDT of the layer	1.0000 ∖100
	OF I UT UT LAYER	~100

Relative Density Angle of Shearing Resistance, Very Dense

Ground Water

No ground water table was encountered within the explored depth of investigation in

the second week of September 2018.

3.1.4 Soil Profile at BH-04 Location (At BH-04 Location, as presented in Site plan) * Layer-1 (from E.G.L to 0.30m depth) Type of Strata

- Colour Thickness of Layer SPT of the layer Relative Density Angle of Shearing Resistance,
- Layer-2 (from 0.30m to 2.00m depth) Type of Strata Colour Thickness of Layer SPT of the layer Relative Density Angle of Shearing Resistance,

 Layer-3 (from 2.00m to 3.00m depth) Type of Strata Colour Thickness of Layer SPT of the layer Relative Density Angle of Shearing Resistance, Silty Sandy Gravels Brownish to Reddish 0.30m

Dense

-100000000000-

Weathered Rock -1.70m >100 Very Dense

Soft Rock

-1.00m >100 Very Dense

Ground Water

No ground water table was encountered within the explored depth of investigation in

the second week of September 2018.

3.1.5 Soil Profile at BH-05 Location (At BH-05 Location as presented in Site plan)

	(ALDII-05 Location, as presented in on	ie pian)
*	Layer-1 (from E.G.L to 0.50m depth)	
	Type of Strata	Soft Disintegrated Rock
	Colour	-
	Thickness of Layer	0.50m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	-000000000-
*	Layer-2 (from 0.50m to 2.50m depth)	
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.00m
	SPT of the layer	>100

Relative Density Angle of Shearing Resistance, Very Dense

Ground Water

No ground water table was encountered within the explored depth of investigation in

the first week of September 2018.

3.1.6 Soil Profile at BH-06 Location (At BH-06 Location, as presented in Site plan) * Layer-1 (from E.G.L to 0.40m depth) Type of Strata

Ground Water

No ground water table was encountered within the explored depth of investigation in

the first week of September 2018.

3.1.7	Soil Profile at BH-07 Location	
	(At BH-07 Location, as presented	in Site plan)
*	Layer-1 (from E.G.L to 0.50m dep	th)
	Type of Strata	Soft Disintegrated Rock
	Colour	-
	Thickness of Layer	0.50m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	
*	Layer-2 (from 0.50m to 2.50m dep	th)
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.00m
	SPT of the layer	>100
	Relative Density	Very Dense
	Angle of Shearing Resistance,	

No ground water table was encountered within the explored depth of investigation in

the first week of September 2018.

3.1.8	Soil Profile at BH-08 Location	n Site nlan)
*	Laver-1 (from E.G.L to 0.70m depth)
	Type of Strata	Silty Sandy Gravels
	Colour	Brownish
	Thickness of Layer	0.70m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	0000000000-
*	Layer-2 (from 0.70m to 3.00m depth	n)
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.30m
	SPT of the layer	>100
	Relative Density	Very Dense
	Angle of Shearing Resistance,	00000000042.500
	Ground Water	
	No ground water table was encounted	ered within the explored depth of investigation in
	the second week of September 2018.	

3.1.9 Soil Profile at BH-09 Location (At BH-09 Location, as presented in Site plan)

	(, =	
*	Layer-1 (from E.G.L to 0.60m depth)	
	Type of Strata	Silty Clay
	Colour	Brownish to Greyish
	Thickness of Layer	0.60m
	SPT of the layer	-
	Consistency	Soft
	Un-drained Cohesion, Cu	-
*	Layer-2 (from 0.60m to 0.90m depth)	
	Type of Strata	Silty Clayey Fine Sand
		mixed with kankars
	Colour	Greyish to Whitish
	Thickness of Layer	0.30m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	-0000000000
*	Layer-3 (from 0.90m to 3.00m depth)	
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.10m
	SPT of the layer	>100
	Relative Density	Very Dense
	Angle of Shearing Resistance,	

No ground water table was encountered within the explored depth of investigation in

the second week of September 2018.

3.1.10 *	Soil Profile at BH-10 Location (At BH-10 Location, as presented in Site pl Laver-1 (from E.G. L to 0.80m depth)	lan)
	Type of Strata	Silty Sandy Gravels
	Colour	Brownish to Reddish
	Thickness of Lavor	
	SDT of the lower	0.0011
	SFT OF the layer	- Donoo
	Angle of Chapting Desistance	
*	Angle of Shearing Resistance,	
~	Layer-2 (from 0.80m to 3.60m depth)	
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.80m
	SPT of the layer	>100
	Relative Density	Verv Dense
	Angle of Shearing Resistance,	00000000042.500

Ground Water

No ground water table was encountered within the explored depth of investigation in

the second week of September 2018.

3.1.11 Soil Profile at BH-11 Location

*	(At BH-11 Location, as presented i Layer-1 (from E.G.L to 0.50m deptl	n Site plan) n)
	Type of Strata	Silty Sandy Gravels
	Colour	Brownish to Reddish
	Thickness of Layer	0.50m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	-0000000000
*	Layer-2 (from 0.50m to 3.00m dept	h)
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.50m
	SPT of the layer	>100
	Relative Density	Very Dense
	Angle of Shearing Resistance,	

Ground Water

No ground water table was encountered within the explored depth of investigation in the second week of September 2018.

3.1.12	Soil Profile at BH-12 Location	
	(At BH-12 Location, as presented in Site pl	an)
*	Layer-1 (from E.G.L to 0.60m depth)	
	Type of Strata	Silty Clay
	Colour	Brownish
	Thickness of Layer	0.60m
	SPT of the layer	-
	Consistency	Soft
	Un-drained Cohesion, Cu	-
*	Layer-2 (from 0.60m to 1.60m depth)	
	Type of Strata	Silty Clayey Fine Sand
		mixed with lime nodules
	Colour	Brownish to Greyish
	I hickness of Layer	1.00m
	SPT of the layer	-
	Relative Density	Dense
4	Angle of Shearing Resistance,	
~	Layer-3 (from 1.60m to 3.00m depth)	
	Type of Strata	Weathered Rock
		-
		1.40m
	SPT of the layer	>100
		Very Dense
	Angle of Shearing Resistance,	UUUUUUUU42.50°

No ground water table was encountered within the explored depth of investigation in the second week of September 2018.

3.1.13 Soil Profile at BH-13 Location

	(At BH-13 Location, as presented in Site pl	an)
*	Layer-1 (from E.G.L to 1.40m depth)	
	Type of Strata	Silty Clay
	Colour	Brownish to Greyish
	Thickness of Layer	1.40m
	SPT of the layer	09
	Consistency	Stiff
	Un-drained Cohesion, Cu	60.00kPa
*	Layer-2 (from 1.40m to 2.80m depth)	
	Type of Strata	Silty Fine Sand mixed with
		Kankars
	Colour	Greyish to Whitish
	Thickness of Layer	1.40m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	0000000000-
*	Layer-3 (from 2.80m to 4.00m depth)	
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	1.20m

SPT of the layer>100Relative DensityVery DenseAngle of Shearing Resistance,000000042.50°

Ground Water

Ground water table was encountered at a depth of 1.40m below the existing ground level during the second week of September 2018.

3.1.14 Soil Profile at BH-14 Location

(At BH-14 Location, as presented in Site plan) * Layer-1 (from E.G.L to 0.40m depth) Type of Strata Filled Up Soil Colour Thickness of Layer 0.40m * Layer-2 (from 0.40m to 0.90m depth) Type of Strata Silty Clay mixed with lime Colour Brownish to Greyish Thickness of Layer 0.50m SPT of the layer Consistency Soft Un-drained Cohesion, Cu -* Layer-3 (from 0.90m to 3.50m depth) Type of Strata Weathered Rock Colour Thickness of Layer 2.60m SPT of the layer >100 **Relative Density** Very Dense Angle of Shearing Resistance, 42.50

Ground Water

No ground water table was encountered within the explored depth of investigation in

the second week of September 2018.

3.1.15	Soil Profile at BH-15 Location	
	(At BH-15 Location, as presented in	n Site plan)
*	Layer-1 (from E.G.L to 0.30m depth)
	Type of Strata	Silty Sandy Gravels
	Colour	Brownish to Reddish
	Thickness of Layer	0.30m
	SPT of the layer	-
	Relative Density	Dense
	Angle of Shearing Resistance,	0000000000-
*	Layer-2 (from 0.30m to 2.50m depth	1)
	Type of Strata	Weathered Rock
	Colour	-
	Thickness of Layer	2.20m
	SPT of the layer	>100
	Relative Density	Very Dense
	Angle of Shearing Resistance,	

No ground water table was encountered within the explored depth of investigation in the second week of September 2018.

Table 4.0-S	Table 4.0-Safe Bearing Capacities of Open Foundation System located at different depths below present existing ground level at different investigation Locations													
Borehole No	Type of Bearing Strata	Depth of Open Excavations below Existing Ground Level (m)	Recommended Thickness of CNS Back-Fill (m)	Depth of Isolated Column Footing below Existing Ground Level (m)	Safe Bearing Capacity (t/m ²)	Elastic Settlements (mm)								
BH-01	Weathered Rock	2.00	0.00	2.00	30	15								
BH-02	Weathered Rock	2.00	0.00	2.00	30	15								
BH-03	Weathered Rock	2.00	0.00	2.00	30	15								
BH-04	Soft Rock	2.00	0.00	2.00	40	15								
BH-05	Weathered Rock	2.00	0.00	2.00	30	15								
BH-06	Weathered Rock	2.00	0.00	2.00	30	15								
BH-07	Weathered Rock	2.00	0.00	2.00	30	15								
BH-08	Weathered Rock	2.00	0.00	2.00	30	15								
BH-09	Weathered Rock	2.00	0.00	2.00	30	15								
BH-10	Weathered Rock	2.00	0.00	2.00	30	15								
BH-11	Weathered Rock	2.00	0.00	2.00	30	15								
BH-12	Weathered Rock	2.00	0.00	2.00	30	15								
BH-13	Silty Fine Sand	2.00	0.00	2.00	30	15								
BH-14	Weathered Rock	2.00	0.00	2.00	30	25								
BH-15	Weathered Rock	2.00	0.00	2.00	30	25								

<u>Notes</u>

1.Settlements are restricted to a maximum of 25mm for Isolated Column Footings.

2. Excavated highly plastic fine-grained soil encountered at shallow depths shall be in no case used for back filling purposes (Ref. BH-13 & BH-14).

3. It is recommended to connect the grade beams for the entire structure to act as a single unit against any differential settlements in between the individual footings.

4. No structural units can be in direct contact of highly plastic fine-grained soil encountered at isolated borehole locations. A 0.30m thick well compacted CNS (cohesive non-swelling) soil cushion is recommended to be sand-witched in between.

5. CNS can be clean river sand or M-Sand or Sand-Gravels mix of 1:2.

CHAPTER-5

CONCLUSIONS & RECOMMENDATIONS

1. Open Foundation system presented in Table 4.0, Page No. 45 & 46 can be adopted for foundation design purposes.

Open Foundation System

- 2. Safe bearing capacity of open foundation system is computed considering any rise in the ground water table up to or above the level of footing.
- In case, ground water table is encountered within recommended depth of foundation system, provision shall be made to continuously bail the water out of the foundation pits to keep the surfaces of pit consolidated dry.

Usage of Excavated Earth

- 4. Excavated highly plastic fine-grained soil encountered at shallow depths shall be in <u>no</u> case used for back filling purposes (Ref. BH-13 & BH-14).
- No structural units can be in direct contact of medium plastic fine-grained soil strata encountered at shallow depths. A 0.30m thick well compacted CNS (cohesive non-swelling) soil cushion is recommended to be sand-witched in between.

Type of CNS to Use

- CNS can be well graded coarse-grained M-Sand or quarry dust or clean river sand or sand: gravels mix (1:2) or fly-ash.
 Other Recommendations
- 7. It is recommended to connect the grade beams for the entire structure to act as a single unit against any differential settlements in between the individual footings.
- 8. As the chlorides and sulphates present in water/soil samples are within the permissible limits, no special steel or cement is recommended to be used for foundation construction purposes.

2.1.4 Layout Plan

PROPOSED E.W.S -II TYPE HOUSING AT F.P.- 63 /10, T.P.-32(RAIYA), DIST.:-RAJKOT.

	PARKING AR = 380.00 s	24.0	00 MT. WIDE T.P.S. I	BOAD ENTRY BOBROACH HOROACH	*
		<u>H</u>	9.00 MT. WIDE APPROACH	_	-
	90.27	PARTY PLOT 21.00 MT. X 43.00 MT	PARKING AREA = TAB 00 sm	9.10 MIT. MIDE APPRO	
		6.00 5	35 PC	14 0	9.00
AREA CALCULATION				* For	A
PLOT AREA	=	39599.00		The Bay h	
NET PLOT AREA	=	39600.00			
PERMISSIBLE F.S.I. AREA (39599.00 X 2.70)	=	106917.30			
PROPOSED F.S.I. AREA	=	60583.10			A
3LANCE F.S.I. AREA	=	46334.20			200
REQUIRED C.P. AREA (10 % X39599.00)	=	3959.90			C-A
PROPOSED C.P. AREA	=	4200.00			4
REQUIRED GREEN BELT AREA (6 % X 39599.00)	=	2375.94		- A	N
PROPOSED GREEN BELT AREA	=	2500.00			Te Te
S.I. CONSUME	=	1.53			38.
REQUIRED PARKING AREA	=	7436.61			
PROPOSED PARKING AREA	=	7500.00			
TOTAL CARRET AREA (A-TYPE)	=	45496.88			
TOTAL CARRET AREA (B-TYPE) COMMUNITY HALL	=	796.60			
TOTAL CARRET AREA (C-TYPE) COMMERCIAL BLDG.	=	601.48			
	=	19011.34			
TOTAL BALCONY AREA (A-TYPE)	=	2193.05			
	=	6281.12			
FOTAL GROUND COVERED AREA	=	6281.12			
PROPOSED	/ BUIL	LI UP & F.S.I AREA TABLE			

					A- TYPI	E			B - TY	PE (COMI) HALL)	Μυνιτγ	С - ТҮ	PE (COMM BLDG.)			
FLOOR	USE	NOS. OF UNIT	NOS. OF FLAT	BUILT UP AREA	F.S.I. AREA	TOTAL NOS. OF FLAT	BUILT UP AREA	F.S.I. AREA	NOS. OF UNIT	BUILT UP AREA	F.S.I. AREA	NOS. OF SHOPS	BUILT UP AREA	F.S.I. AREA	BUILT UP AREA	F.S. ARE
GR. FL.	RESI.	11	PARKING	471.27	383.16	PARKING	5183.97	4214.76	1	630.030	610.040	7	467.12	438.64	6281.12	5263
1ST FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76	1	600.000	89.140	7	467.12	438.64	6251.09	4742
2nd FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
3rd FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
4th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
5th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
6th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
7th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
8th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
9th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
10th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
11th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
12th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
13th FL.	RESI.	11	8	471.27	383.16	88	5183.97	4214.76							5183.97	4214
STAIRCABIN		11		76.48			841.28		1	24.65			31.53		897.46	
LMR & O.H.WT.		11		71.91			791.01		1	16.12			20.98		828.11	
TOTAL			104	6746.170	5364.240	1144	74207.87	59006.64	1	1270.800	699.18	14 SHOPS	986.75	877.28	76465.42	60583



2.1.5 <u>Unit Plan</u>



SAGUNA	JAYESS PROJECT CONSULI	PROJECT:	CLIENT:		SCALE :	REVISIO		BUILT L	CARPET		
СНЕСК ВҮ	HADA MANAGEME IANT	PROPOSED E.V F.P63/10 , T.P.	RAJKOT MUNI	WORKING	N_T_S	~		IP AREA =	AREA $= 3$	FOR DPF	
SHEET NO 28Y 19	INT	V.S -II TYPE HOUSING AT -32(RAIYA), DIST.:-RAJKOT.	CIPAL CORPORATION	DRAWING	TYPE : A - TYPE	DATE :	271	47.72 SQ.MTS	9.36 SQ.MTS	? PURPOSE	

2.1.6 Floor Plans

						GROUND FLOOR PLAN		A -TYDE (11 BING)			WORKING DRAWING			
		7.	<u>6</u>	<u>ب</u>	4	<u>.</u> ω	2	<u>-</u>		<u>3</u>	2		SR.NO	
۷		W6	W5	W4	W3	W2	W1	۲		D2	2	D	. NAME	
0.600 X 0.600		0.450 X 1.525	0.800 X 1.525	0.870 X 1.525	0.600 X 1.525	1.000 X 1.225	1.000 X 1.525	0.965 X 1.525		0 750 X 2 425	0 900 X 2 425	1.000 X 2.425	SIZE (OPENING)	
C.TOILET, A.TOILET	SCHEDULE OF	BEDROOM	BEDROOM	BEDROOM	STUDY ROOM	KITCHEN	STUDY ROOM	DRG. ROOM	SCHEDULE C	C.TOILET, A.TOILET WASH,	BED ROOM	DRG.RM.	POSITION	SCHEDUL
1	VENTIL	0	0	0	2	0	-	0	OF WINDO	5	-	0	GR. FL	E OF DO
16 x 13	ATION	16 x 13	4 x 13	4 x 13	16 x 13	8 x 13	8 x 13	8 x 13	WC	24 x 13	16 x 13	8 x 13	TY. FL x 13TH FL	ORS
		I		ı	ı		I	ı		•	ı	2	TERR.FL	
•		0.900	0.900	0.900	0.900	1.200	0.900	0.900		•	·	•	SILL.	
2.425		2.425	2.425	2.425	2.425	2.425	2.425	2.425		2.425	2.425	2.425	LINTEL.	
1 + 208 + 0 = 209		0 + 208 + 0 = 208	0 + 52 + 0 = 52	0 + 52 + 0 = 52	2 + 208 + 0 = 210	0 + 104 + 0 = 104	1 + 104 + 0 = 105	0 + 104 + 0 = 104		5 + 312 + 0= 317	1 + 208 + 0 = 209	0 + 104 + 2 = 106	GR.+TYP+TER.=	

GROUND FLOOR PLAN (PARKING + 13th.FL.)



PROPOSED E.W.S -II TYPE HOUSING AT F.P.-63/10 , T.P.-32(RAIYA), DIST.:-RAJKOT.

					_		
SAGUNA	DRAWN BY	PROJECT CONSUL VALARAM SHAKTI", BESE	JAYES		ROJECT	CLIENT:	
	CHECK BY	TANT TANT	SHAI	F.P63/10	PROPOSE	RAJKOT N	WORK
		EMENT	DALAL	, T.P32(RAI	DEWS-IIT	NUNICIPAL	ING DRA
	SHEET NO	T SCHOOL,ATHWALINES,S		YA), DIST.:-R	YPE HOUSIN	CORPORAT	WING
ET 107	01 780	URATE		RAJKOT.	JG AT	ION	

REVISION : SCALE : N.T.S

DATE :

TYPE: A - TYPE

2.330			μ <u></u> 1.ε	300		2.330
0.870	~1.000-7 ~1.000-7	РАЯ + 0.		X	+ 0	-1.000
3.260		IKING AREA 15 MT.LVL.			RKING AREA	3.260
						1.100
	2.970	3.590	1.8 14.	300 - 3.8 920	590	

273

						TYPICAL FLOOR PLAN		A TYDE (11 BING)		RIDG PLAN GR+13FI	WORNING DRAWING			
1.		7.	6.	ۍ.	4	<u>ب</u>	2			<u>.</u> 3	<u>2</u>	 	SR.NO	
۷		W6	W5	W4	W3	W2	W1	۷		D2	7	D	NAME	
0.600 X 0.600		0 450 X 1 525	0.800 X 1.525	0.870 X 1.525	0.600 X 1.525	1.000 X 1.225	1.000 X 1.525	0.965 X 1.525		0 750 X 2 425	0.900 X 2.425	1.000 X 2.425	(OPENING)	
C.TOILET, A.TOILET	SCHEDULE OF	BEDROOM	BEDROOM	BEDROOM	STUDY ROOM	KITCHEN	STUDY ROOM	DRG. ROOM	SCHEDULE (C.TOILET,A.TOILET WASH,	BED ROOM	DRG.RM.	POSITION	SCHEDUL
1	· VENTIL	0	0	0	2	0	1	0	OF WIND	5	-	0	GR. FL	E OF DC
16 x 13	ATION	16 x 13	4 x 13	4 x 13	16 x 13	8 x 13	8 x 13	8 x 13	W	24 x 13	16 x 13	8 x 13	TY FL x 13TH FL	ORS
•				•			•	·				2	TERR.FI	
		0.900	0.900	0.900	0.900	1.200	0.900	0.900		•	•	•	SILL.	
2.425		2.425	2.425	2.425	2.425	2.425	2.425	2.425		2.425	2.425	2.425	LINTEL.	
1 + 208 + 0 = 209		0 + 208 + 0 = 208	0 + 52 + 0 = 52	0 + 52 + 0 = 52	2 + 208 + 0 = 210	0 + 104 + 0 = 104	1+104 + 0 = 105	0 + 104 + 0 = 104		5 + 312 + 0= 317	1 + 208 + 0 = 209	0 + 104 + 2 = 106	GR.+TYP+TER.=	

TYPICAL FLOOR PLAN (1ST TO 13TH.FL.)



PROPOSED E.W.S -II TYPE HOUSING AT F.P.-63/10 , T.P.-32(RAIYA), DIST.:-RAJKOT.



DRAWN BY SAGUNA	JAYES PROJECT CONSUI	REVISIO SCALE : CLIENT: PROJECT:	
СНЕСК ВҮ	SH A D/ C MANAGEN TANT	N.T.S N.T.S WORKIN RAJKOT MUJ PROPOSED I F.P63/10 , T	
SHEET NO	ALAL AENT WELOUND'S CONVENT SCHOOL, ATHWALINESS	DATE : TYPE : A - T IG DRAWING NICIPAL CORPORAT E.W.S -II TYPE HOUSIN P-32(RAIYA), DIST.:-R	-
28Y 19		YPE ION IG AT AJKOT.	