



DETAIL	AREA(SQ.M.)
	39750.00
	2032.38
	37717.62
CULTURAL LAND	7137.62
	9173.05
	1000.00
	4669.04
	500.00
	53.00
	30580.00
	76450.00
%	12323.00
	764 UNITS
WFR	1449.85
	4082.32
ER	4956.39

POPULATION DENSITY CALCULATION	
1. PROPOSED LAND AREA	30580.00
PERMISSIBLE DENSITY 250 UNIT/HECTARE ( 1250 PERSON/HECTARE )	
(1250 X 3.058 = 3822.5 ) SAYS 3823 PERSONS	
<b>PERMISSIBLE POPULATION</b>	<b>3823 PERSONS</b>
2. POPULATION IN TOWER - A	76 X 5 = 380 PERSONS
3. PROPOSED PLOTS	65
PROPOSED UNIT IN PLOTS	55 X 1 = 55 UNITS A
	10 X 2 = 20 UNITS B
A + B	75 UNITS
POPULATION IN PLOTS	75 X 5 = 375 PERSONS
4. PROPOSED POPULATIONS = 380+375 = 755	
<b>PROPOSED POPULATION</b>	<b>755 PERSONS</b>

PARKING CALCULATION			
1. UP TO 50 SQ.M. UNITS	TWO WHEELER PARKING		
2. 50 SQ.M. TO 100 SQ. M. UNITS	ONE CAR PARKING		
DISCRPTION	FAR(SQ.M.)	NO. OF UNITS	NO. OF CARS
4. UNIT-1	58.55	16	16 CARS
5. UNIT-2	42.36	60	60 TWO WHEELER
<b>TOTAL UNITS</b>	<b>76</b>		
6. VISITORS PARKING (10 %)		2 CARS	2 CARS
7. REQUIRED PARKING FOR CARS		18 NOS.	18 NOS.
8. REQUIRED PARKING FOR TWO WHEELER		46 NOS.	46 NOS.
9. PROPOSED PARKING FOR CARS		18 NOS.	18 NOS.
10. PROPOSED PARKING FOR TWO WHEELER		70 NOS.	70 NOS.

PERMISSIBLE GREEN AREA:	
15% OF NET PLOT AREA @ 30580 SQ.MT. = 4587.00 Sq.Mt.	
<b>PROPOSED 15% GREEN AREA</b>	
S.R.NO.	AREA (SQ.M.)
1	880.20
2	424.68
3	662.80
4	259.00
5	463.56
6	1978.80
<b>TOTAL</b>	<b>4669.04</b>
<b>PROPOSED GREEN AREA = 4669.04 SQ.MT.</b>	

DETAIL OF TOWER-A			
F.A.R. AREA (SQM)	FACILITY AREA	TOTAL BUILT-UP AREA	UNITS
1449.85			
1214.52	27.7	1449.85	20
	16.22	1015.28	20
	16.22	1015.28	20
	16.22	1015.28	20
	12.76	824.13	16
49.54		49.54	
		66.14	4
<b>264.06</b>	<b>89.12</b>	<b>4956.39</b>	<b>76</b>

**NOTES : SEWERAGE SYSTEM**

- THE SIZE OF MANHOLE SHALL BE AS UNDER ( INNER SIZES )
  - Service Manhole 1100 m.m. depth 600 x 600 m.m.
  - 900 to 1650 m.m. depth 900 m.m. dia.
  - 1650 to 2250 m.m. depth 1200 m.m. dia.
  - Above 2250 m.m. depth 1500 m.m. dia.
- The levels of sewer lines has been worked out on the basis of certain ground level and for certain pipe lengths between two manholes. the invert levels has to be strictly followed however, the slope of line may be slightly changed.
- For any discrepancy / omission the matter should refer to the consultants before execution.
- Manhole shall be provided at following places -
  - At the start of each sewer line.
  - At every junction and position where there is change of size, gradient and alignment.
  - At not more than 45 meter interval in straight length.
- Where the diameter of pipe is increased the crown of the pipe shall be fixed at the same level and necessary slope shall be given in the invert of the manhole chamber.
- The structural design of manholes / pipe bedding has to be done for local field conditions such as filled up soil / black cotton soil / high sub soil conditions.
- This drawing shall be read along with the detailed landscape plan & ground floor plan of respective building for exact location of appertunances / man holes etc.
- Sewer line under the road shall be encased with 150 thick, pcc 1:2:4 allround.
- Manhole cover should be finished with finished formation level as per landscape drawing, the cover of manhole shall be square as per appertunances drawing & should be co-ordinated with landscape drawing.
- This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
- Material of pipe :-
  - Up to 250 m.m. dia. :- uPVC (DNC (B4) Pipe with rubber ring joint as per IS - 16098 (part-1) or (part-2) (hollowcore / foamcore or PE-DWC type)
  - 300 m.m. & above dia. :- RCC (NP 3) Pipe with rubber ring joint
- In the areas subject to subsidence or filled up soil (due to excess excavation at site for construction of basements) the sewer lines & manhole should be laid on suitable support or concrete cradle supported on piles or suitable foundation as per structural design.
- In case where sewers are laid in high sub soil conditions manholes should be constructed in r.c.c. garde m-25.
- The width of trench for sewer and drainage should be d+ 400mm. (d= o.d. of pipe).
- Shoring / timbering should be adequate to prevent caving-in of the trench walls of subsidence of areas adjacent to the trench. an engineer-in-charge in consultation with a structural engineer should provide adequate arrangement to prevent caving-in.

**LEGEND :**

S.No.	SYMBOL	DESCRIPTION
1.		SERVICE MANHOLE (INSIDE PLOT) SIZE: 600 X 600 & I.L (+) 1900
2.		SERVICE MANHOLE (OUTSIDE PLOT) SIZE: 600 X 600 & I.L (+) 1100
3.		MANHOLE
4.		1600 SERVICE CONNECTION PIPE
5.		SEWER LINE

**NOTE: EXTERNAL MUNICIPAL SEWER LEVEL TO BE VERIFIED AT SITE BEFORE THE LAYING OF THE SITE SEWERAGE ANY DISCREPANCIES IN LEVELS TO BE IMMEDIATELY REPORTED**

**SPECIAL NOTES :**  
This drawing shall be read in conjunction with Appertunance Details drawing no. KM / 19901 / ES - 06

Design of Sewerage system For KESHAV MAJESTIC										Manhole schedule			
S.No.	Line No.	Length	Pipe Size(mm)	Slope (1 in)	Ground Level(mm)	Crown Level(mm)	Invert Level(mm)	Depth(mm)	S.No.	Line No.	Type of Manhole		
1	S1	S2	11.00	200	0.000	0.000	-800	-855	800	855	1	S1	A
2	S2	S3	12.00	200	0.000	0.000	-855	-915	855	915	2	S2	A
3	S3	S4	14.00	200	0.000	0.000	-915	-985	915	985	3	S3	A
4	S4	S5	22.00	200	0.000	0.000	-985	-1095	985	1095	4	S4	A
5	S5	S6	27.00	200	0.000	0.000	-1095	-1230	1095	1230	5	S5	A
6	S6	S7	27.00	200	0.000	0.000	-1230	-1365	1230	1365	6	S6	A
7	S7	S15	12.00	200	0.000	0.000	-1365	-1485	1365	1485	7	S7	A
8	S8	S9	14.00	200	0.000	0.000	-1485	-1555	1485	1555	8	S8	A
9	S9	S10	14.00	200	0.000	0.000	-1555	-1695	1555	1695	9	S9	A
10	S10	S11	14.00	200	0.000	0.000	-1695	-1785	1695	1785	10	S10	B
11	S11	S12	14.00	200	0.000	0.000	-1785	-1835	1785	1835	11	S11	B
12	S12	S13	14.00	200	0.000	0.000	-1835	-1905	1835	1905	12	S12	B
13	S13	S14	14.00	200	0.000	0.000	-1905	-1975	1905	1975	13	S13	B
14	S14	S15	10.00	200	0.000	0.000	-1975	-2025	1975	2025	14	S14	B
15	S15	S23	14.00	200	0.000	0.000	-2025	-2095	2025	2095	15	S15	B
16	S16	S17	14.00	200	0.000	0.000	-800	-870	800	870	16	S16	B
17	S17	S18	14.00	200	0.000	0.000	-870	-940	870	940	17	S17	B
18	S18	S19	14.00	200	0.000	0.000	-940	-1010	940	1010	18	S18	B
19	S19	S20	14.00	200	0.000	0.000	-1010	-1080	1010	1080	19	S19	B
20	S20	S21	14.00	200	0.000	0.000	-1080	-1150	1080	1150	20	S20	A
21	S21	S22	14.00	200	0.000	0.000	-1150	-1220	1150	1220	21	S21	A
22	S22	S23	10.00	200	0.000	0.000	-1220	-1270	1220	1270	22	S22	A
23	S23	S31	30.00	200	0.000	0.000	-2095	-2245	2095	2245	23	S23	B
24	S24	S25	14.00	200	0.000	0.000	-800	-870	800	870	24	S24	A
25	S25	S26	14.00	200	0.000	0.000	-870	-940	870	940	25	S25	A
26	S26	S27	14.00	200	0.000	0.000	-940	-1010	940	1010	26	S26	A
27	S27	S28	14.00	200	0.000	0.000	-1010	-1080	1010	1080	27	S27	A
28	S28	S29	14.00	200	0.000	0.000	-1080	-1150	1080	1150	28	S28	A
29	S29	S30	14.00	200	0.000	0.000	-1150	-1220	1150	1220	29	S29	A
30	S30	S31	10.00	200	0.000	0.000	-1220	-1270	1220	1270	30	S30	A
31	S31	S1P	12.00	200	0.000	0.000	-2245	-2305	2245	2305	31	S31	B



**PROJECT :-**  
'KESHAV MAJESTIC' GROUP HOUSING AT KHASRA NO. -79,80,81, &83 (PART) VILL.- MAUZA SUNRAKH BANGAR, VRINDAVAN DIS. - MATHURA, U.P.

**BUILDERS & PROMOTER :-**  
BRAJBHOOMI BUILDTTECH PVT.LTD. HOUSE NO.-10, JANGPURA ROAD, BHOGAL NEW DELHI - 110014

**SCALE:-** 1:500  
**DRAWN BY :-** BB  
**CHECKED BY :-** PKS  
**DRG.NO.-** PL-01

**DRAWING TITLE :-**  
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