### PROJECT REPORT FOR

7.182 ACRES GROUP HOUSING COLONY IN SECTOR 20, PANCHKULA

SAMAR ESTATES PVT. LTD.

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM
WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE
IN RESPECT OF 7.182 ACRES GROUP HOUSING COLONY IN SECTOR 20,
PANCHKULA

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PROJECT REPORT/ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 7.182 ACRES GROUP HOUSING COLONY, SECTOR 20, PANCHKULA.

#### **REPORT**

The Haryana Government has prepared a master plan for development of Residential/Industrial urban estate at Faridabad. M/S SAMAR ESTATES PVT. LTD. PANCHKULA has decided to develop a part of the area in this master plan and has named this part as 7.182 Acres Group Housing Colony. This scheme is located in Sector 20 of Haryana Urban Development Authority Panchkula. License has already been granted vide license no. 609-612 of 2006 Dated 27.03.2006. The brief details of the scheme are as under:-

#### WATER SUPPLY

#### 1 Source

The source of water supply in this area is tubewells at present as the underground water is potable and fit for human consumption. Moreover water is available at reasonable depth. The average yield of tubewell with 40-45 ft strainers will be about 22500 litre per hour. The recharging of underground water table in this belt is stated to be good. The number of tubewells required for the above area has been worked out and the tubewells will be bored in tune with growth of demand to avoid obsolesce of the tubewells. The ultimate requirement of tubewells includes provisions of 10% stand by.

#### 2 Design

The scheme has been designed for approved population of 1778 persons. The rate of water supply per head per day has been taken as 172.50 litres (150+15%) as per HUDA norms. In addition to above necessary provision of water for commercial, electric substation, parks etc. have been taken into account for calculating the maximum quantity of water requirement.

#### 3 Pump chambers and Pumping Machinery

It is proposed to equip each tubewell with an electrically driven set ejecto type or submersible pump capable of delivering of 22500 litre per hour. It is also proposed to equip fifty percent of pumping sets with stand by diesel engines / gen set for operation during failure of electricity.

#### 4 Under Ground Storage

Underground storage tank provision has been made for 350 KL capacity in two compartments, which caters for the domestic as well as for firefighting requirement. The water for domestic water compartment shall overflow the fire compartment so that the water in the fire compartment also remains fresh.

#### 5 Boosting Station

The boosting station are being planned near underground storage tank catering to the above requirement

#### 6 Distribution System

The distribution system for this development has been designed to supply @ 172.5 litre per head her day @ 3 times the average rate of flow on Hazen William formula. Necessary provision for laying CI/DI pipes conforming to relevant 1S standards along with valves and specials has been made in the project. The minimum terminal head at any point will be more than 57.00 meters so that it can serve the GROUND + 10 floors construction envisaged in the plan. Minimum pipe dia for distribution is kept as 100 mm dia.

#### 7 Rising mains

Rising mains from HUDA water main or sector road to water works have also been proposed and provision has been made in this estimate.

#### 8 Sewerage

The sewer lines have been designed for 3 times average DWF in relation to the water supply demand assuming that 75% of the domestic water supply shall find its way into the proposed sewer. SW/RCC pipe sewers have been proposed and designed to run half full. The sewers have been designed on 0.77 M per second minimum velocity i.e. self cleansing velocity. Necessary provision for laying s.w. /R.C.C. pipes manholes etc. has been made in this estimate.

Along with S.T.P. of capacity 0.75 MLD. Treated Sewerage will be used for flushing purposes and Horticulture purpose. This over flow will be discharged into HUDA Sewerage.

#### 9 Storm water Drainage

The storm water drainage in being designed to carry 6.25 mm rainfall per hour for intramural and 3.125mm rainfall intensity for extramural sewers. Also suitable provision are contemplated in our scheme to ensure better recharging of underground water table in the area R.C.C. Hume pipes drain with minimum 400mm dia is proposed in this area.

#### 10 Roads

The roads in the colony have been planned as 6 M wide. The following specifications have been adopted which are reproduced below.

- (i) GSB-300 mm in one layer
- (ii) WBM-250 mm in two layers
- (iii) BM-50 mm thick
- (iv) MSS-25 mm thick

The above construction shall be done on well compacted sub grade as per specifications. Complete work will be carried out as per MORTH specifications, IRC guide lines or HUDA specifications, which ever applicable.

#### 11 Street lighting

The provision has been made on lump sum basis.

#### 12 Horticulture

The usual provision of road side plantation of tree guards has been made for all roads. The parks shall be developed by providing lawns etc.

#### 13 Specifications

The work will be carried out in accordance with the standard specifications of P.H. Department as laid down by HUDA & Haryana Government.

Estimate for providing services in this pocket has been prepared on the recent market rates.

#### 15 Cost

The total cost of development in this project including various P.H. and B & R services works out to Rs 682.50 Lacs. including 3% contingencies & P.E. charges and 49% departmental administrative, unforeseen and escalation charges.

The cost per gross acre for the proposal works out to be Rs. 95.03 Lacs which covers the provision of services like water supply, sewerage, storm water drainage, roads, street lighting and plantation including maintenance thereof as well as future expansion whatsoever indicated.

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### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA DESIGN CALCULATIONS

#### Daily Requirement

1	Total No. of Dwelling Units (General)	= 332
	Total No. of EWS Dwelling Units	= 59

Population per unit (General @ 5)

Total Population = 5 x 332 = 1660 Persons Population per EWS unit @ 2 = 118 Persons

Therefore population =  $59 \times 2$ 

Total Population (General + EWS) = 1660 + 118 = 1778 Persons

Water requirement

@  $172.5 \text{ ltr / head / day} = 1778 \times 172.5$  = 306705 litres = 306.70 KL

Provision for service Personnel = 50 Units

Population @ 2 persons per unit =  $50 \times 2$  = 100

Total Population including service personnel = 1878 Persons

Water requirement for plots @ 172.5 litres/head/day = 323955 litres

 $= 1878 \times 172.5$ 

= 323.96 KLSAY = 324.00 KL

#### 2. Add Requirement for Institutions etc.

(a) No. of Nursery Schools = 1 Nos.

Daily Water requirements @ 10,000 litre/day

Therefore daily water requirement = = 10,000 litres  $1 \times 10,000$ 

≥ 10 KL

(b) No. of Commercials

= 1 No.

Daily Water requirement @ 32000

litre/Acre

Area of Commercials = 140.87 Sq.m =

Therefore daily water erequirements

 $= 0.35 \times 32000$ 

= 0.035 Acre

= 1120.00 litres

2000 SAY 5.00 KL

© Community Buildings

= 1.00 nos.

Area = 917.31 sq.m.

= 0.22 Acre

Therefore daily water requirements =

0.22 x 25000

= 5500.00 ltr.

= 5.50 KL

**TOTAL** 

= 25.00 KL

3. Area under Parks/green space

= 9303.01 Sq.m

= 2.30 Acres

Therefore daily water requirement

@ 25000 litre/Acre

= 57500.00 litres

 $= 2.30 \times 25000$ 

= 57.50 KL

4. Area under roads out of 7.182 = 1.94 Acres

Acres

Therefore daily water requirement For sweeping of roads etc.

 $= 1.94 \times 5000$ 

= 9700.00 litres

= 9.70 KL

Total daily requirement

a. For domestic use (1+2)

= 324.00 + 25.00

= 349.00 KL

b. Under parks & roads (3+4)

=57.5+9.70

= 67.20 KL

Assuming 60 % of the total domestic demand as drinking water supply demand and 40 % of domestic demand as flushing water supply demand

Then daily water supply demand for drinking water =  $0.60 \times 349.00 = 209.40 \times L$ 

The daily water supply demand of flushing water = 0.40 X 349.00 = 139.60 KL

### TUBE WELLS FOR 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### **TUBEWELLS**

Assuming working hours of tube well	(6)	= 16
Assuming discharge/hour of each tube well	0.	= 22500 lit/hour
Total domestic demand		= 348.96 KLD

No of tube wells Required for domestic demands 
$$= \frac{348.96}{16 \times 22.5}$$
Add 10% as stand by 
$$= 0.96 + 10$$

$$= 1.06$$
No of tube wells Required for total demands 
$$= \frac{349.00 + 67.20}{16 \times 22.5}$$
Add 10% as stand by 
$$= 1.16 + 0.12$$

$$= 1.28$$

So it is proposed to provide 50 % or 1 no. of tube well. However, the water demand for horticulture and flushing purposes is to be met from re-circulated water after treatment at S.T.P. and ultimate water supply is to be provided by HUDA.

Say

=2 nos.

#### PUMPING MACHINERY FOR TUBE WELLS

Say	= 10 B.H.P.
$60\times60\times75\times0.6$	, which we see
B.H.P. = $22500 \times 60$	= 8.33
Total	= 60.00  m
Friction Loss	= 3.00  m
Depression head	= 9.00  m
Average fall in is S.L.	= 3.00  m
Gross working load	= 45.00  m

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#### **UNDERGROUND STORAGE TANK (DRINKING WATER)**

Daily requirement for

domestic use including

Institutional demand

Capacity of under ground =  $0.5 \times 209.40$  = 10470

= 150.00 KL

= 209.40 KL

Fire Frightening 100

= 100 P = 100 / 1.82

= 134.00 KL

SAY 200 KL

Hence it is proposed to provide under ground tank of capacity 350.00 KL for potable water supply including 200.00 KL for firefighting purposes at two compartments as shown in the drawing. The water first enters the fire compartment then over flows to the domestic use compartment so that the water in the fire compartment shall remain fresh.

#### **BOOSTING MACHINERY (DRINKING WATER SUPPLY)**

Daily requirement for domestic use

= 209.40 KL

Assuming 8 hours running 2 pump (with 2 standby)

Discharge/hour

 $=\frac{209.40}{8X2}$ 

= 13.08 KL/hr

= 218.00 Litre/minute

SAY 250.00 lpm

Head of Pump

i) Suction lift

4.00M

ii) Friction Loss in main & 4.00 M specials

iii) Clear head

57.00 M

65.00 M .

Say 70M

B.H.P. of Motor

 $= \frac{250 \times 70}{60 \times 75 \times 0.6}$ 

SAY

= 7.50 HP

= 6.48

It is proposed to provide 3 Nos. of pumping sets of 250 Litre per minute at a total head of 70 M (two working & one stand bye).

#### **UNDERGROUND STORAGE TANK (FLUSHING WATER)**

Daily requirement for flushing = 139.60 KL

use including Institutional demand

Add , for horticulture and = 67.20 KL

= 207.80 KL

Therefore capacity of = 103.90 KL

underground storage tank = 207.80/2

Say = 150.00 KL

#### **BOOSTING MACHINERY (FOR FLUSHING WATER)**

Daily requirement for flushing & irrigation = 207.80 KL

Assuming 8 hours running two pump (with one standby)

Discharge/hour = 207.80 = 12.99 KL/hr

SAY = 216.50 Litre/minute = 220.00 Litre/minute

However to keep similarity with the pumps of drinking water supply it is proposed to provide

pumps of 250.00 litre/hour

Head of Pump

iv) Suction lift 4.00M

v) Friction Loss in main & 4.00 M specials

vi) Clear head <u>57.00 M</u>

65.00 M

B.H.P. of Motor  $= \frac{250 \times 70}{60 \times 75 \times 0.6} = 6.48$ 

SAY = 7.50

It is proposed to provide 3 Nos. of pumping sets of 250 Litre per minute at a total load of 70 M (two working & two stand bye).

## 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA PUMPS FOR FIRE PROTECTION

Sr. No.	PARAMETERS	LOCATION	PU	MP SE	ΓS
		St.	Jockey	Main	Diesel
a.	Discharge in Ipm	Pump Room	180 lpm	2280 lpm	2280 lpm
b.	Head in meters	*	120	120	120
c.	НР		7.5	125	125
d.	Quantity in nos.		1	1	1

#### **GEN SET**

Pumps for boosting. (4 x 7.50)

= 30.00 H.P.

Lighting and others

= 5.00 H.P.

= 35.00 H.P

Add 10% extra

= 3.50 H.P.

= 38.50 H.P.

However it is proposed to provide Gen Set of capacity

= 1.50 X 38.50 X 0.746 = 43.08 KVA

SAY = 45.00 KVA

#### **CAPACITY OF S.T.P**

Total requirement of domestic water supply

= 349.00 KLD

Total sewage load =  $0.75 \times 349.00$ 

= 261.75 KLD

Therefore capacity of S.T.P. required

= 300.00 KLD

= 0.30 MLD

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## 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA FINAL ABSTRACT OF COST

		Amount (Rs. In Lacs)
Sub Work No. I	Water Supply	187.20
Sub Work No. II	Sewerage	75.20
Sub Work No. III	Storm Water Drainage	45.80
Sub Work No. IV	Road Work	166.00
Sub Work No. V	Street Lighting	13.80
Sub Work No. VI	Horticulture Work	12.00
Sub Work No. VII	Maintenance Charges for 10 years i/e resurfacing of roads after 1 <sup>st</sup> 5 years and 2 <sup>nd</sup> 5 years	182.50
	TOTAL	682.50



## 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA ABSTRACT OF COST (WATER SUPPLY)

#### AMOUNT (RS. IN LACS)

	TOTAL	1	87.20
Sub Work No. 5 Irrigation and flushing			24.30
Sub Work No. 4 Fire Ring Main			27.70
Sub Work No. 3 Distribution System			20.10
Sub Work No. 2 Pumping Machinery			65.20
Sub Work No. 1 Head Works			49.90

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### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

Boring and installing 200 i/d tubewell with reserve/direct rotary rig complete with pipe

#### Sub Head 1

1...

#### **Water Supply**

#### **Head Works**

Amount (Rs. In Lacs)

	SAY	49.90
	GRAND TOTAL	49.87
	Add 49% departmental price escalation, unforeseen charges	16.40
	Add 3% Contingencies & P.E. Charges	0.97 <b>33.47</b>
	Total	32.50
	150.00 KL For fire fighting in two compartments & 125 KL at S.T.P. 500 KL @ Rs. 400/KL	0.30
	<ul> <li>i) Construction of boosting chamber</li> <li>ii) U.G. tank 500 KL capacity incl 200 KL for domestic use</li> </ul>	4.00 20.00 0.50
	pumping machinery and generating set etc. complete in all respect.  Details of boosting Station	4.00
3.,	Construction of boosting chambers of suitable size along with underground tank of capacity 1650 KL	
2,	Constructing pump chambers as per standar design of PWD PH/HUDA of size 1.5M x 1.55 M x 1.5M 1 No. L.S.	1.00
	strainer to a depth of about 80m complete along with machinery.  1 No. @ 7,00,000/-each	7.00

#### 7.182 ACRES GROUP HOUSING COLONY

#### SECTOR - 20, PANCHKULA

#### C.O. TO ABSTRACT OF COST OF SUB WORK NO. I

#### Sub Work I Sub Head No. 2

### Water Supply Pumping Machinery

Amount (Rs. In Lacs)

	·	•	
1	Providing and installing electricity driven electro or submersible sets capable of delivering about 20.00 KL water per hour against a total head of 60 M complete with motor and other accessories.		
	1 No. @ 2,00,000/-each	2.00	
2.	Provision for desiel engine genset stand by		
	1 No. @ 2,00,000/-	2.00	
3.:	Provision for cheap pressure type chlorination plant complete.  1 No. @ 1,00,000/-	1.00	
		1.00	
4.	Provision for making foundations and erection of pumping machinery 1 No. (L.S)	0.50	
5.	Provision for pipes, valves, and specials inside the pump chamber (L.S)	0.50	
6.	Provisions for electric services connection including transformer, electric fittings for tubewells chambers complete. (L.S)	2.50	
7.	Providing and installing centrifugal boosting pumping sets, capable of delivering water at 70 M head with 40 H.P. each complete in all respects domestic & flushing (7.5+7.5 H.P.)		
	8 sets @ 1,00,000/- each	8.00	
8.	Providing and fixing pumping sets of following capacity for fire protection		

i) 180 LPM at 120 M Head 1 No. 7.5 H.P.	2.00
ii) 2280 LPM at 120 M Head 1 No. 125 H.P.	7.50
iii) 2280 LPM at 120 M Head 1 No. Diesel	10.00
iv) 180 LPM at 120 M Head 1 No. Diesel	2.50
Provision of Gen Set of capacity 45 KVA (L.S.)	5.00
E 20 20 20 20 20 20 20 20 20 20 20 20 20	
Provision for carriage for materials and other unforeseen items L.S.	1.00
difference in terms 2.0.	42.50
Add 3% contingencies & P.E. charges	1.27
Add 49% departmental, escalation & unforeseen charges.	<b>43.77</b> 21.44
GRAND TOTAL	65.21
SAY	65.20
	<ul> <li>ii) 2280 LPM at 120 M Head 1 No. 125 H.P.</li> <li>iii) 2280 LPM at 120 M Head 1 No. Diesel Pump 125 H.P.</li> <li>iv) 180 LPM at 120 M Head 1 No. Diesel Pump 7.5 H.P.</li> <li>Provision of Gen Set of capacity 45 KVA (L.S.)</li> <li>Provision for carriage for materials and other unforeseen items L.S.</li> <li>Add 3% contingencies &amp; P.E. charges</li> <li>Add 49% departmental, escalation &amp; unforeseen charges.</li> </ul>

#### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

Sub	Work No. I	<b>Water Supply</b>	
Sub		System/Rising Main	
1.	Providing, laying, jointing and testing DI K <sub>9</sub> pipes including cost of excavation complete as per specifications.	Amount (Rs. in Lacs)	
	100 mm dia i/d 450 mtrs @ Rs. 1250/- mtr 150 mm dia i/d 300 mtrs @ Rs. 1600/- mtr	5.62 4.80	
2.	Providing and fixing sluice valve including cost brick masonry chambers complete in all respect.	0.26	
	100 mm dia i/d 3 Nos. @ Rs. 12000/- Each 150 mm dia i/d 4 Nos. @ Rs. 15000/- Each	0.36 0.60	
3.	Providing and fixing air valves and scour valves including cost of brick masonry chamber.		
	2 Nos. @ Rs. 10000/- Each	0.20	
4.	Providing and fixing indicator plates for sluice valve, air valve etc.		
	9 Nos. @ Rs. 1000/-Each	0.09	
5.	Providing for carriage of material L.S.	0.50	
6.	Provision for rising main from tubewells to U.G. tank		
	i) 100 mm dia i/d 48 mtrs @ Rs. 1250/- mtr	0.60	
7	Provision for rising main from main HUDA water line to U.G. tank.		
	100 mm i/d 30 Mtrs @ Rs. 1900/-Mtr.	0.30	
		13.07	
	Add 3% AR & Contingencies	0.39	
	Add 400/ Equalities demands of 1	13.46	
	Add 49% Escalation, departmental, unforeseen charges. C.O. to abstract of cost of Sub Work No. I	6.60	latel
	GRAND TOTAL	20.06	he c
	SAY	20.10	Pick the date

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#### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### Sub Work No. 1

Sub	Head No. 4	Fire Ring Main
. 1	Providing, laying, jointing and testing M.S./D.I. pipe for fire rising main including cost of fittings, valves, connection etc. complete in all respect.	Amount (Rs. in Lacs)
	i) 150mm C.I/D.I Pipe line 825.00 m @ Rs.1500/- M	12.37
	ii) 80mm C.I/D.I Pipe line 90 m @ Rs. 1000/- M	0.90
2	Providing and fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects.	
	150mm dia 5 Nos. @ 15000/-Each	0.75
3	Providing and fixing fire hydrant with accessories 32 Nos. @ Rs. 10000/-	3.20
4	Providing for carriage of material (L.S.)	0.50
5	Providing and fixing indicating plates	
	37 Nos. @ Rs. 1000/- Each	0.37
	Add 3% contingencies & P.E. charges	18.09 0.54
		18.63
	Add 49% departmental, escalation, adm. and unforeseen charges.	9.12
	GRAND TOTAL SAY	27.75 27.70

### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### Sub Work No. 1

#### Sub Head No. V

#### Water Supply Flushing & Irrigation

39	a to e	Amount (Do to Local)	
1	Providing, laying, jointing and testing DI K <sub>9</sub> pipe including cost of excavation etc. complete in all respect.	Amount (Rs. in Lacs)	(4)
	a) 100 mm dia 1075 M @ Rs. 1250/- M	13.43	
2	Providing & fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respect		
	5 Nos. @ Rs. 1200/- each	0.60	
3	Providing and fixing 25mm dia, irrigation hydrant valve complete in all respect.		: 6
	45 Nos. @ Rs. 1500/-Each	0.68	
4.	Providing and fixing indicating plates 50 Nos. @ Rs. 1000/- Each	0.50	
5	Provision for carriage of material and other unforeseen items.	0.50	
	Add 3% contingencies & P.E. charges	15.71 0.47	
		16.18	
	Add 49% departmental, escalation, adm. and unforeseen charges.	8.08	
§ (	GRAND TOTAL SAY	24.26 24.30	

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#### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### **SUB HEAD II**

#### **SEWERAGE SCHEME**

1.	Providing, lowering, cutting, salt glazed stoneware pipes and specials into trenches including cost of excavation, bed concrete, cost of manholes complete in all respect.	Amount (Rs. in Lacs)
	200 mm i/d i) Av. Depth upto 2.5 M-800 M @ Rs.1250/- Per M	10.00
2.	Provision of S.T.P. 300 KLD and allied structure	35.00
3,,	Provision for vent shafts as per P.H. requirement at suitable places (L.S.)	1.00
4.	Provision for road cutting and making the same to original condition (L.S.)	1.00
5.	Provision for making connection with HUDA main sewer line	0.50
6.	Provision of temporary timbering etc.	1.00
7.	Provision for carriage of material etc. and other unforeseen charges. L.S.	0.50
	TOTAL	49.00
	Add 3% contingency & P.E Charges.	1.47
	TOTAL	50.47
	Add 49% departmental escalation unforeseen charges.	24.73
	GRAND TOTAL	75.20

#### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### **SUB HEAD III**

#### **STORM WATER DRAINAGE**

Amount

(Rs. in lacs) Providing laying RCC pipes drain class NP-3 with cement joints, manholes, excavation etc. complete in all respect. 300 mm i/d 0.54 Av. Depth upto 2.0 M - 40 M @ Rs. 1350/- Per M 400 mm i/d 11.16 Av. Depth upto 2.0 M - 620 M @ Rs. 1800/- Per M 2.64 450 mm i/d Av. Depth upto 2.0 M - 120 M @ Rs. 2200/- Per M 2.00 2. Provision for road gullies L.S. Provision for lighting, watching and temporary diversions of traffic. 0.50 3. 0.50 4. Provision for cutting of roads and carriage of materials etc. and other unforeseen items L.S. 10.00 5. Provision for temporary disposal arrangement / recharge pit Provision for connection with HUDA. 1.50 6. 7. Provision for timbering & shoring 1.00 **TOTAL** 29.84 Add 3% contingencies & P.E. charges. 0.89 **TOTAL** 30.73 Add 49% departmental, escalation and unforeseen charges. 15.06 **GRAND TOTAL** 45.79 SAY 45.80

#### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### SUB WORK NO. IV

#### **ROAD WORK**

Item	Description of Item	Unit	Qty.	Rate	Amount
No.	(1)	36		(Rs.)	(Rs. In Lacs)
1	Site Clearance				
1,1	Clearing and grubbing road land including uprooting rank, vegetation, grass, bushes, shrubs, saplings and trees girth upto 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials to be used or auctioned, upto a lead of 1000mm including removal and disposal of top soil not exceeding 150 mm thickness by manual means in areas of light jungle as per drawings and Clause 201 of Morth Specifications.	Hectare	1.17	25000	0.29
2	Earth Works				
2.1	Provision for leveling + earth filling as per site condition approximate	Acre	7.182	100000	7.18
3	Provision for				
i.	300 mm GSB				
ii.	250 mm thick stone aggregate				
iii.	50mm thick B.M.				
iv.	20mm thick MSS				
		Sqm	8300	1000	83.00
.4	Miscellaneous Items				<u>u</u>
4.1	Construction of cement concrete Kerb and Channels as per specifications	Meter	2300	400	9.20
4.2	Construction of Foothpath as per Specifications for approach to each block.				5.00

0.50

0.50

1.00

0.50

1.00

3.25

108.17

111.42

54.60

166.02

166.00

Providing and fixing guide maps at

Provision for demarcating burgies (L.S.)

Provision for carriage of material (L.S.)

Add 3% contingencies& P.F charges

Add 49% departmental, escalation

Unforeseen & Administrative charges

Provision for plot indicators (L.S.)

Provision for traffic arrangement

selected locations (L.S.)

4.3

4.4

4.5

4.6

4.7

**TOTAL** 

TOTAL

SAY

**GRAND TOTAL** 

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#### **SUB WORK-V**

## 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA COST ESTIMATE STREET LIGHTING

	Amount (Rs. in Lacs)
Providing street lighting on internal roads as per standard specification in 7.182 acre area @ Rs. 125000/- Per Acre 7.182 x 125000	8.98
Add 3% contingency charge & P.E charges.	0.27
TOTAL	9.25
Add 49% departmental charges, escalation, unforeseen, admin. Charges.	4.53
GRAND TOTAL	13.78
SAY	13.80

#### C/O TO FINAL ABSTRACT OF COST

#### SUB WORK - VI

1

#### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### **COST ESTIMATE**

Development of Lawn Area

#### **HORTICULTURE**

Amount (Rs. In Lacs)

a) Trenching the ordinary soil up to depth of 60cm. including removal and packing of serviceable material and disposing at a lead of 50m/ and making up the trenched area to proper

a lead of 50m/ and making up the trenched area to proper level by filling with earth mixed with manure including cost of improved earth and manure.

of improved earth and manure.
b) Rough dressing of trenched area.

c) Grassing with "doob grass" including watering and maintenance of lawns free from weeds and fit for moving

rows 7.50cm in either direction including for hedges and grill and barbed wire fencing around park and green belts (as per HUDA norms) Area

7.182Acres @ Rs.100000 Per Acre

2 Planting or trees with tree guards on roads at 6 M intervals

Length of roads  $= 1150.00 \,\mathrm{M}$ 

No. of Trees @ 12 m c/c = 1150 x 1/12 = 95.8 Nos.

SAY = 100 Nos.

#### **COST OF THE TREE**

Excavation Rs. 50/-

Manure Rs. 60/-

Tree Plants Rs. 60/-

Tree Guards Rs. 600/-

Total Rs. 750 x 100 0.75

TOTAL 7.83

Add 3% contingencies and P.E. charges 0.23

TOTAL 8.06

Add 49% departmental, escalation, adm. and unforeseen charges 3.95
GRAND TOTAL 12.01

SAY 12.01 12.01

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### 7.182 ACRES GROUP HOUSING COLONY SECTOR - 20, PANCHKULA

#### SUB WORK NO. VII

#### MAINTENANCE CHARGES AND RESURFACING OF ROADS

2 <sup>ND</sup> PH	ASE AFTER 5 YEARS OF 1 <sup>ST</sup> PHA	AMOUNT (RS. IN LACS)
1.	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, streetlights, horticulture etc. complete including operation and establishment charges as per HUDA norm after completion and resurfacing of roads after 10 years.	
	7.182 Acres @ Rs. 5.00 Lacs	35.91
2.	Provision for resurfacing of roads after 1 <sup>st</sup> 5 years of maintenance i.e. 100 mm thick B.M. & 25 mm thick premix carpet with seal coat with mechanical paver	
	8300 Sqm @ Rs. 600/- P. Sqm	49.80
3.	Resurfacing of road after 10 years of maintenance by providing 25mm thick premix carpet with seal coat with mechanical paver.	
	8300 Sqm @ Rs. 400/- per sqm total	33.20
	TOTAL	118.91
	Add 3% P.E. and contingency charges	3.57
	TOTAL	122.48
	Add 49% departmental charges, price, escalation unforeseen and administrator charges.	60.01
•	GRAND TOTAL	182.49
	SAY	182.50

	7		1	1	-1	1	7	_		т -
	Gross requirement of	water in gallons per day	ī	14520	16700	25050	19€5	11960	11960	3300
	1층 등	KLPD	5.	90.99	75.9	113.85	9	54.34	54.34	15.00
Providing Water Supply Scheme 7 182 Acres Group Housing Colour Scheme 7 182	Water requirement for non residential unit in	KLPD	r	N.S.=10KLPD	1	r		*		SHOPPING+COMMUNITY = 15.00 KLPD
OF WATER LO	Water requirement	(@ 1/2.5 Lts per head per day in KLPD		56.06	75.9	113.85	(( <b>1</b> €	54.34	54.34	11
CALCULATION OF WATER LOAD	Population @5 OR 2 persons	per unit	®	325	440	099	ı	315	315	
C. C	Inits	Service Personnel	1	Ü	20	30	1	ĝ	r	ř
Providing Wa	No. of Dwelling Units	E.W.S.	ï	59	C.	r	×	*	at es	ę.
	No.	General	ĸ	9	80	120	į	63	63	
	Name of Line		RA	AB	ВС	СО	AE	EF	FG	НЭ
	Sr. No.		н	2	8	4	w	9	7	∞

27,0.77

ATEMENT FOR WATER SUPPLY 7.182 Acres Group Housing Colony Sector 20 Parchivels	raulio Pormotion	Loss	in L/E in	Mtr in pipe Mtr Mtr	· U/E L/E	8.27 0.17 377.00 376.83 310.75 66.08	4.35 0.83 376.83 376.00 310.80 65.20		2.06 0.15 376.00 375.85 310.90 64.95		6.30   0.45   375.85   375.30   311.00   64.30	6.30 0.82 376.83 376.01 310.80 65.24	6.30 0.40 376.01 375.61 310.85 64.76		0.62 0.05 375.34 375.29 311.15 64.14
TER SUPPLY	Size Length I	in M		_		20.00	190.00		70.00	35.00	00.67	130.00	65.00	80.00	85.00
DESIGN STATEMENT FOR WATER SUPPLY pply Scheme 7.182 Acres Group Housing Colony	Designed Siz	75	in gallons   MM	per day	C=100	283000 150	200000 150		133000   150	84000	001 00040	84000 100	84000 100	60000 100	24000 100
ESIGN STATE y Scheme 7.182	3 Times	Water Load	in Gallons	per day		250470	168810		125250	75150	00107	81660	81660	45780	0066
1 1	ons per day				Total	83490	56270		41750	25050		27220	27220	15260	3300
Providin	Water load in gallons per day	*			Branch	83490	41750		25050	ı		27220	15260	3300	
	Water ]			21-12	Seli	0	14520		16700	25050		1	11960	11960	3300
ec	Name of	Line				RA	AB	Š	BC	CD		AE	EF	FG	GH
	Sr.	No.				1	2	,	n	4		w	9	7	∞

	1		Т	T	T	T	T .		T	1	1	r	1	1
	lsing	)	MM /	200										
sec	onb Hor		Dia. Of S.V. in MM /	150	_	-	-		-				4	4
J.I. Pip	Acres G	hkula	Dia.	100					74	_	-	~	က	က
ies of I	e 7.182 µ	20, Pancl	MM /	200										
Schedule Quantities of D.I. Pipes	Providing Water Supply Scheme 7.182 Acres Group Housing	Colony Sector-20, Panchkula	Dia. Of Pipe in MM /	150	20.00	190.00	70.00						280.00	300.00
edule C	er Supply	Colony	Dia. (	100				75.00	130.00	65.00	80.00	85.00	435.00	450.00
Sche	ing Wate	. •	Name	of Line	RA	AB	BC	СD	AE	EF	FG	GH	AL	
	Provid		S.NO.		1	2	3	4	2	9	7	8	TOTAL	Say

. . . . . . . . . . . . . . .

. 1	i e	я														
		hkula		of Water requirement in cusecs		0.023	0.023	0.013	0.015		0.003	0.003	•	0.016	0.016	, AC
7 3	ge Load	ony Sector-20, Pancl	Water.	Requirement @ 172.5 LPCD in	KLPD	75.90	75.90	43.12	50.89		10	15	9	54.34	54.34	ā
 	Statement for Calculation of Sewage Load	Providing Sewerage Scheme 7.182 Acres Group Housing Colony Sector-20, Panchkula	Population @ 5	persons or 2		440	440	250	295		9∎⊔	ıity		315	315	
	t for Calcu	le 7.182 Acres	Units	Service Personnel		20	20	10	•			shoping and community		Ĭ.	T I	-
	Statemen	verage Schem	No. of Dwelling Units	EWS		ŗ	7	,	59		ľ	shoping	ä	Ŷ	Ė	ĭ
		roviding Sev	ž	General		80	80	46	1	U	5.5		î	63	63	ı
	-	a.	Name of Line	242	1	AB	BC	CD	DE	H.		FG	СН	HI	IJ	JK
7		ı	S. NO	٥	,	-	.2	က	4	ις.		<b>ω</b>	7	8	g G	10

4	zkii k	Ouspiter of Sources @ 750/	of Water requirement in	soesno		0.00	T.	•	3
de Load	Providing Sewerage Scheme 7,182 Acres Group Housing Colony Sector-20, Panchkula	Water	Requirement @	172.5 LPCD in KLPD	1	1	Sa.		
Statement for Calculation of Sewage Load	Group Housing Colo	Population @ 5	persons or 2	persons per Unit	(0)	e K	1		
t for Calcu	e 7.182 Acres	Juits	Service	Personnel	A.II		,		
Statemen	rerage Schem	No. of Dwelling Units	EWS		ı	t	ı		
	oviding Sew	N	General		ŗ	ı	ā		
	Ą	S. NO Name of Line			KM	LM	M-STP	OVERFLOW	TOTAL
		S. NO			11	12	13	14	15

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7.182 Acres Group Housing Colony Sector-20, Panchkula  Size in Length Slope Velocity Fall Formation Level in M Invert Levels in M Avg.  Bepth	L/E	1.19	1.20	1 4			6.5	~	1 %		5
lin M Invert Levels in M	1	60		4 1.48	2 1.78	2 2.02	0 1.25	2 1.36	7 1.60	5 1.81	9 2.07
lin M Invert Levels in M		1.18	1.22	1.74	1.82	2.22	1.30	1.42	1.67	1.95	2.19
l in M	U/E	1.20	1.18	1.22	1.74	1.82	1.20	1.30	1.42	1.67	1,95
l in M	L/E	309.72	309,38	309.06	308.88	308.56	309.80	309.58	309.23	308,90	308.61
l in M	U/E	309.90	309.72	309.38	309.06	308.88	310.00	309.80	309.58	309.23	308.90
2 Acres Group Housing Colony Sector-20, Panchlize in Length Slope Velocity Fall Formation MM in M 1 in M/Sec. in M	L/E	310.90	310.60	310.80	310.70	310.78	311.10	311.00	310.90	310,85	310.80
2 Acres Group Housing Colony Sectorize in Length Slope Velocity Fall MM in M 1 in M/Sec. in M	U/E	311.10	310.90	310.60	310.80	310.70	311.20	311.10	311.00	310.90	310.85
2 Acres Group Housing Colony ize in Length Slope Velocity MM in M 1 in M/Sec.	•	0.18	0.34	0.32	0.18	0.32	0.20	0.22	0.35	0.35	0.29
2 Acres Group Housir ize in Length Slope MM 1 in M 1 in		0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
2 Acres Group ize in Length in M in M	ē	225	225	225	225	225	225	225	225	225	225
2 Acreize in		40.00	75.00	70.00	40.00	70.00	45.00	48.00	77.00	77.00	65.00
118		200	200	200	200	200	200	200	200	200	200
		0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Providing Sewerage Scheme  cs 3 Times Designe  Sewage Load Discharg  in Cusecs in Cusec		0.069	0.138	0.177	0.222	0.231	0.015	0.015	0.063	0.111	0.111
Providi	Total	0.023	0.046	0.059	0.074	0.077	0.005	0.005	0.021	0.037	0.037
Sewage Load in Cusecs	Branch		0.023	0.046	0.059	0.074	· ·	0.005	0.005	0.021	0.037
Sewage	Self	0.023	0.023	0.013	0.015	0.003	0.005		0.016	0.016	O <b>a</b> n
Name of Line	± 5	AB	ВС	CD	DE	EL	FG	НЭ	HI	IJ	JK
Sr.		7	2	3	4	2	9	7	8	6	10

**DESIGN STATEMENT** 

	7.						
		Avg. Depth		2.23	2.30	2.40	1.55
		M	L/E	2.26	2.37	2.43	1.69
		Depth in M	U/E	2.19	2.22	2.37	1.50
		vels in M	L/E	308.54	308.43	308.39	308.81
	8	Invert Le	U/E	308.61 308.54	308.56 308.43	308.43	309.32 308.81
	kula	Level in M	L/E	310.80	310.80	310.82	310.50
20 Panchbu	-20, Panchl	Formation Level in M Invert Levels in M	U/E	310.80	310.78	310.80	310.82
	Sector	Fall in M		0.07	0.13	0.04	0.51
II and a second	ıg Colony	Slope Velocity Fall 1 in M/Sec. in M		0.77	0.77	0.77	0.77
	Housir	Slope 1 in		225	225	225	225
	es Group	Length in M	*	15.00	30.00	10.00	115.00
	182 Асге	Size in MM		200	200	200	200
	Scheme 7.	Designed Size in Length Slope Velocity Fall Discharge MM in M 1 in M/Sec. in M in Cusecs		0.44	0.44	0.44	0.44
Providing Sewerage Scheme 7.182 Acres Group Housing Colony Sector-20, Panchkula	ing Sewerage	3 Times Designed Sewage Load Discharge in Cusecs in Cusecs		0.111	0.111	0.342	0.342
	Provid	secs	Total	0.037	0.037	0.114	0.114
		Sewage Load in Cusecs	Branch	0.037	0.037	0.114	0.114
	25	Sewage	Self		*	3	•
		Name of Line		KM	ГМ	13 M-STP	14 OVERFLOW
		Sr. No		11 KM	12 LM	13	14

**DESIGN STATEMENT** 

				300	•	1)	ij	9							
Schedule Quantities of S.W. Pipes	ln alu	Length in M	, i	067			į								
	Providing Sewerage Scheme 7.182 Acres Group Housing Colony Sector-20, Panchkula	Len	000	15.00		20.00	10.00	115.00	777.00	800.00					
		Name of Line		KM	IM		M-STP	OVERFLOW	TOTAL	SAY					
		S.No.		11	12	!	13	14							
	me 7.182 A	5/	300	r	7		×	r)	į	31 31	91				
	rerage Sche	Length in M	250	<b>29</b> 0	·		į	Œ	ţ.	jį,		- ( <b>5</b>	į.		
	oviding Sew	4	200	40.00	75.00		70.00	40.00	70.00	45.00	48.00	77.00	77.00	65.00	
2	Prc	Name of Line		AB	BC	8	3	DE	EL	FG	НЭ	HI	IJ	JK	æ
	2.	S.NO.		~	2	,	7	4	5	9	7	80	Ō	10	

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		Avg. Depth		96.0	0.10	1.33	1.38	1.26	1.09	1.22	1.31	1.34	1.37	1.33
		in M	L/E	0.92	1.18	1.43	1.33	1.31	1.17	1.27	1.34	1.34	1.41	1.25
		Depth in M	U/E	1.00	1.02	1.23	1.43	1.20	1.00	1.17	1.27	1.32	1.34	1.41
DESIGN STATEMENT		vels in M	L/E	309.98	309.52	309.27	309.17	309.39	309.83	309.58	309.46	309.41	309.29	309.25
	chkula	Invert Levels in M	U/E	310.10	309.88	309.47	309.27	309.50	310.00	309.83	309.58	309.46	309.41	309.29
	or-20, Pan	Formation Level in M	L/E	310.90	310.70	310.70	310.50	310.70	311.00	310.85	310.80	310.75	310.70	310.50
	olony Sect	Formation M	U/E	311.10	310.90	310.70	310.70	310.70	311.20	311.00	310.85	310.80	310.75	310.70
	Jousing Co	Fall in M		0.12	0.36	0.2	0.1	0.11	0.17	0.25	0.12	0.05	0.12	0.04
	es Group F	Velocity Fall in M in M/Sec.		0.77	1.02	1.05	1.05	0.77	0.77	0.77	0.77	0.77	0.77	0.77
	82 Acre	Slope 1 in		300	300	340	340	560	260	560	560	260	560	260
	eme 7.1	Length in M		36	120	75	30	09	95	145	02	30	70	20
Ι	nage Sch	Size in Length Slope 1  MM in M in		300	400	450	450	400	400	400	400	400	400	400
	Providing Storm Water Drainage Scheme 7.182 Acres Group Housing Colony Sector-20, Panchkula	Designed Discharge in Cusecs		2.53	4.8	6.18	6.18	3.52	3.52	3.52	3.52	3.52	3.52	3.52
246	ing Storm	Discharge @1/4" in Rain Fall in causes		0.261	0.77	0.95	0.95	0.11	0.17	0.44	0.59	0.62	0.72	0.78
	Provid		Total	1.03	3.1	3.8	3.8	43	0.67	1.78	2.37	2.47	2.89	3.32
		Area in Acres	Branch Total	1	1.03	3.1	3.8	•))	*	0.67	1.78	2.37	2.47	3.32
		Are	Self	1.03	2.07	0.7	(( <b>1</b> )	43	0.67	1.11	0.59	0.1	0.42	ž
	Morney of I in a	Name of Line		A2A1	A1A	AB	B-HUDA STORM	СО	D5D4	D4D3	D3D2	D2D1	010	D-HUDA STORM
		No No		-	2	т	4	'n	9	7	ω	თ	10	7

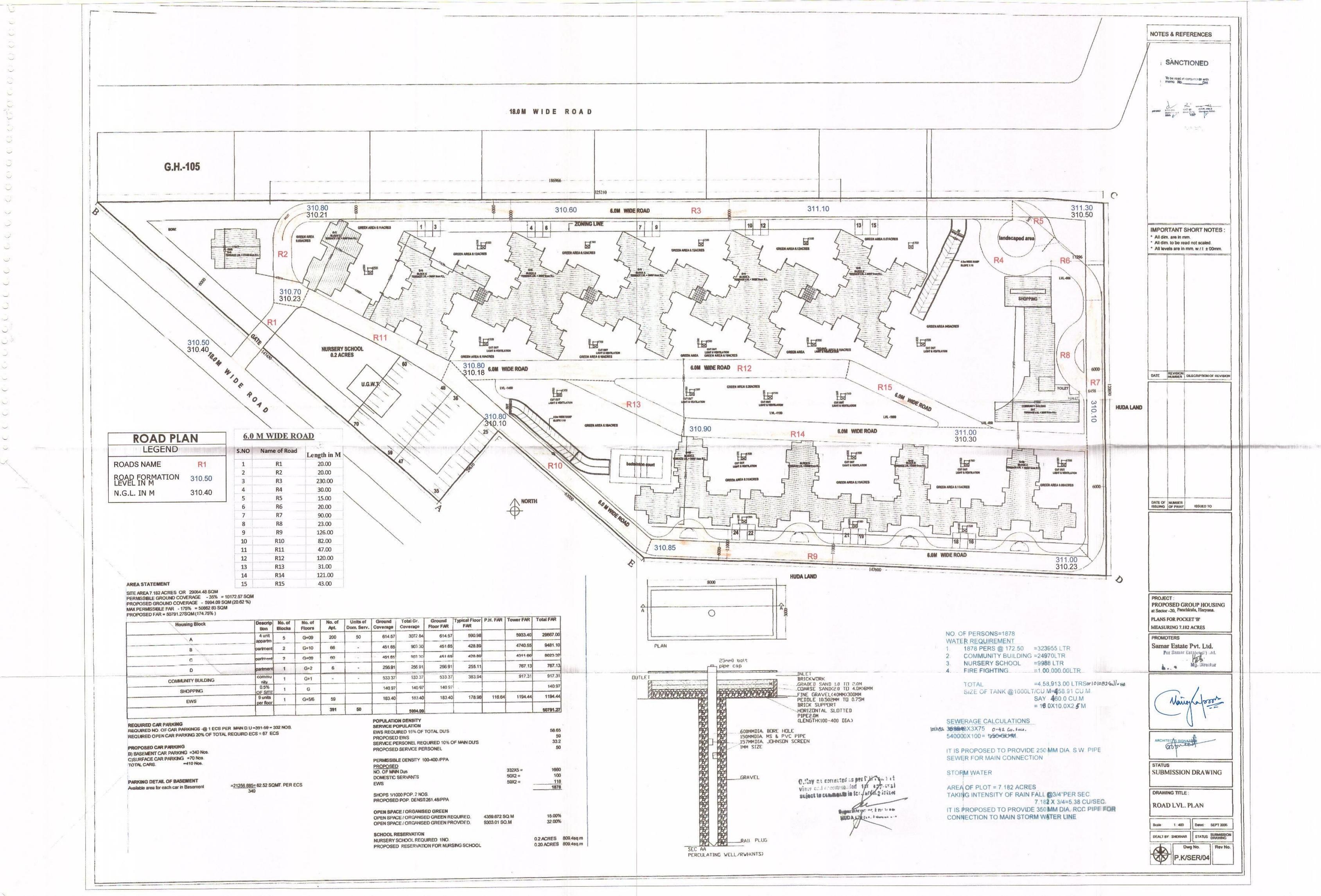
Schedule of Quantities of R.C.C Pipes	Providing Storm Water Drainage Scheme 7.182 Acres Group Housing Colony Sector-20, Panchkula	Length in M	400 450	*	120.00	75.00	30.00	09	95	145	70	30	70	20	610.00 105.00	620 00 120 00
uantities of I	storm Water Drainage Scheme 7.182 A	Ler	300	36.00											36.00 6	40.00
edule of Qu	g Storm Water Housing Col	Name of		, A2A1	A1A	AB	B-HUDA STORM	CD	D5D4	D4D3	D3D2	D2D1	D1D	D-HUDA SEWER	Total	SAY
Sch	Providin		S.NO.	-	2	ო	4	2	9	7	00	თ	10	7		7

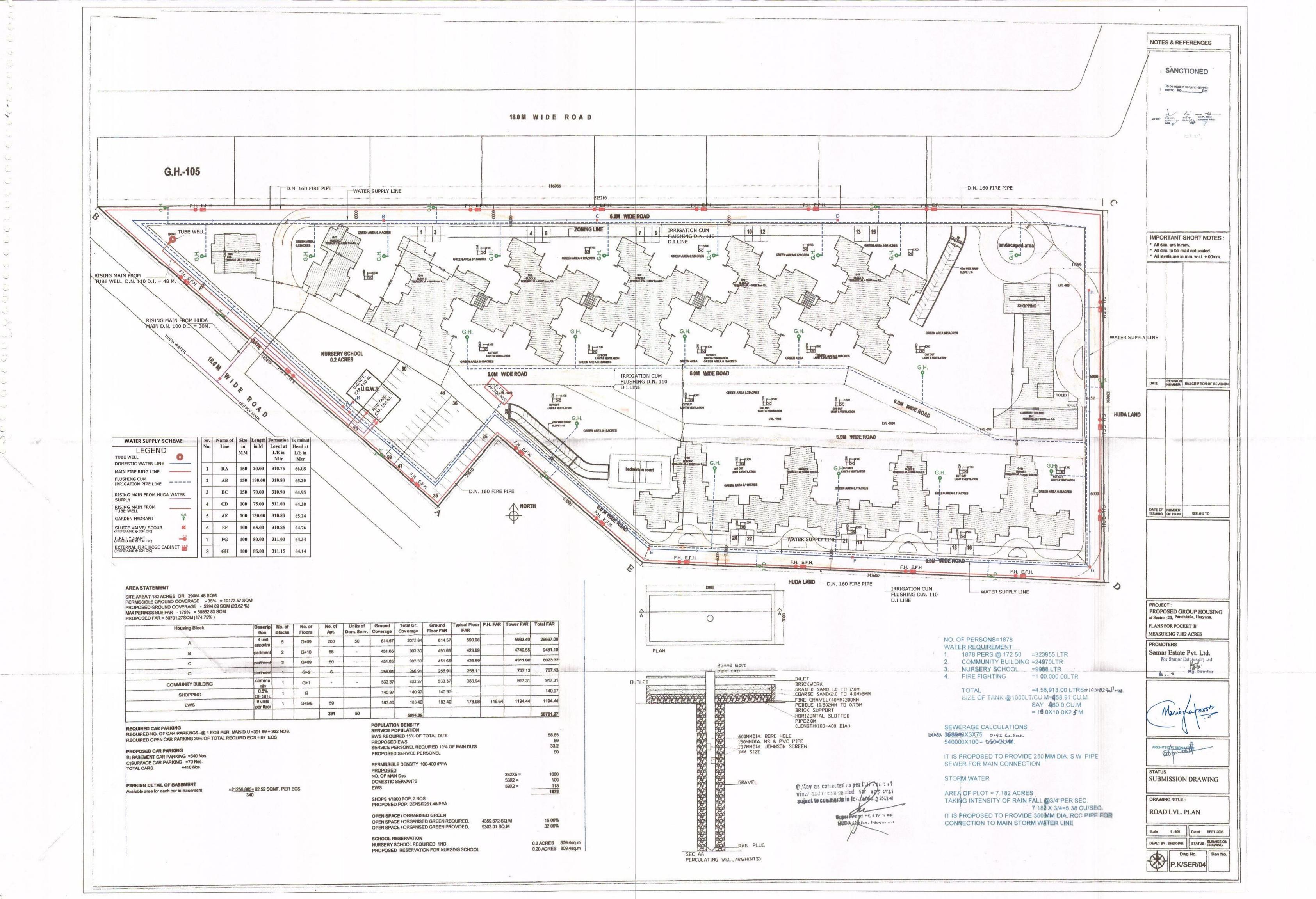
#### **DESIGN DATA OF ROADS**

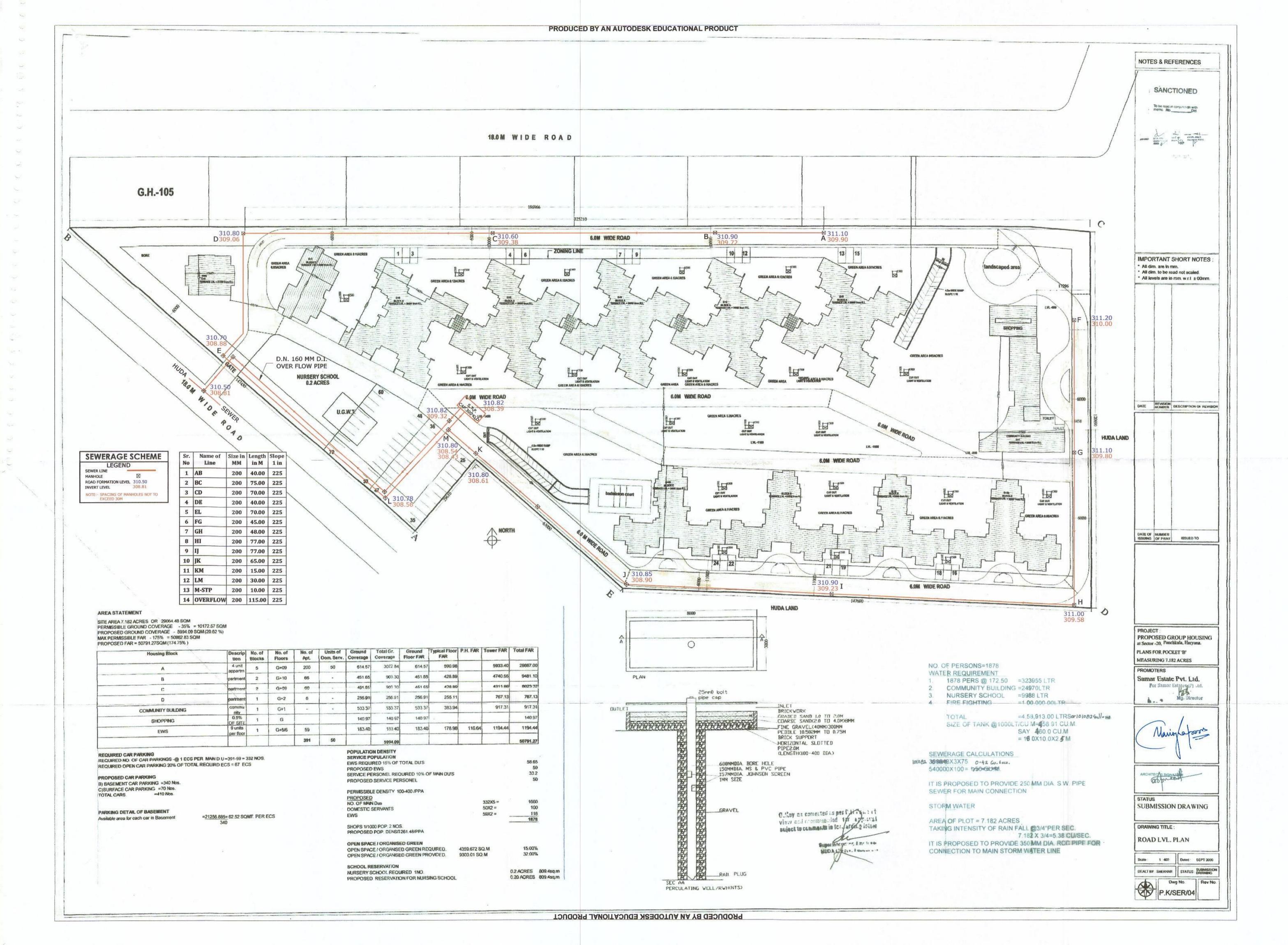
7.182 Acres Group Housing Colony Sector-20, Panchkula

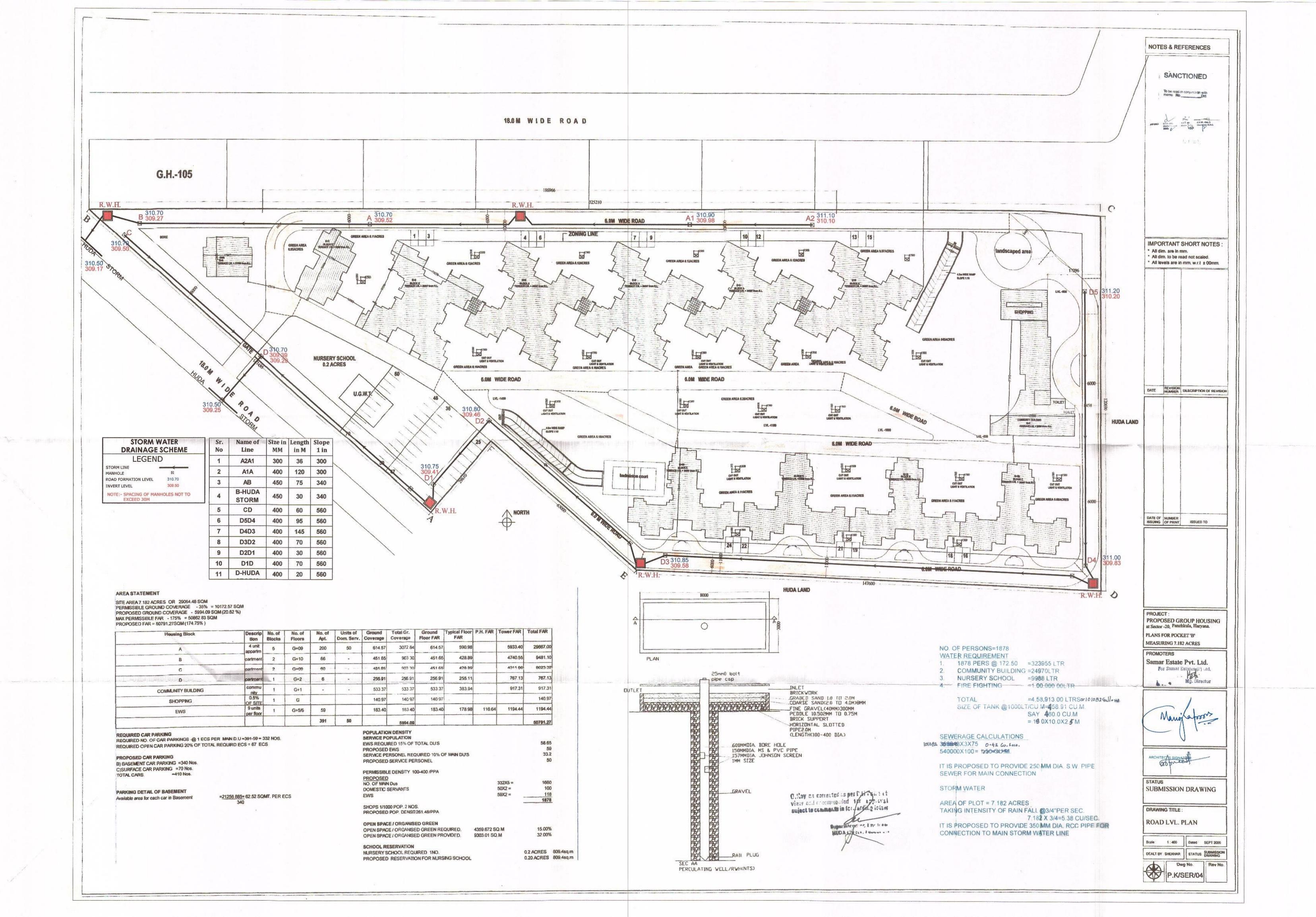
#### 6.0 M WIDE ROAD

Y.	S.NO	Name of Road		
oi .			Length in N	M
1	1	R1	20.00	
,	2	R2	20.00	
	3	R3	230.00	
y)	4	R4	30.00	
	5	R5	15.00	
7.	6	R6	20.00	
	7	R7	90.00	
	8	R8	23.00	
	9	R9	126.00	
	10	R10	82.00	
)	11	R11	47.00	
	12	R12	120.00	
	13	R13	31.00	
	14	R14	121.00	
(e	15	R15	43.00	
		TOTAL	- 1018.00	
			*	
	40	Total length of 6.0 M wide roads	1018.00	
		Add 10 % at curves	102.00	
		TOTAL	1120.00	
-		SAY	1150.00	
5		Paved Area of Roads= 1150 M x 6.00 M=	6900.00	SQ.M
J		Add extra for entry, exit and widened roads=	500.00	SQ.M
		add for surface parking 70 x 2.5 x 5.00=	875.00	SQ.M
1		Total	8275.00	SQ.M
	ć g	say	8300.00	SQ.M
		Length of kerbs = 2 X 1150	2300.00	SQ.M









To, **The Superintending Engineer,**HUDA Circle, Panchkula

Sub: Approval of Service Plan Estimate of Pocket-B in the matter of Licence No. 609 to 612 of 2006 granted in the name of M/s Samar Estate Pvt. Ltd area measuring 7.182 acres, village Kundi sector 20, Panchkula.

Ref: Please refer to your office memo No. 240934 dated 19.12.2017 on the subject cited above.

Sir,

The Para wise reply to the observation is submitted as under please:-

1. The design statement for water supply, sewerage& storm water have been prepared on the basis of the number of dwelling units as per provision made in the approved layout plan appended with the estimate. However in case of any variation up to 10% from original approved plan is in built while planning the service plan estimates submitted for approval.

In case of any variation with respect to approved building plans within the stipulated maximum limits or beyond thereof shall be submitted as revised plan for approval to the competent authority and the estimate for the services will be revised accordingly. As such no necessity of preparing the design statements at this stage is required.

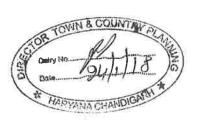
More-över the size of pipes fulfill the requirement of norms of HUDA/Public Health Engineering Department.

2. The services marked on the plan are as per approved plan. The service plan estimate has also been prepared accordingly.

Contd...P/2

Crigary Contract

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3. The rates provided in the estimate are as per prevalent practices and norms in HUDA presently.

In view of the above, estimate submitted by us is in order and you are therefore requested to kindly approve the same at the earliest and oblige.

de,

Thanking You Yours Sincerely, For Samar Estate Pvt. Ltd.

(Authorized Signatory)

CC:-

1. The Director General, Town & Country Planning, Haryana Sector 17 Chandigarh.

2. The Chief Engineer, HUDA Panchkula.

3. The Executive Engineer HUDA Division No. I Panchkula.

Phone: 011-23752608, 23752609 0172-2551594, 2551865

SVG

#### SAMAR ESTATES PVT. LTD.

#### (A COMPANY OF ESS VEE GROUP)

(REAL ESTATE PROMOTERS, BUILDERS, ENGINEERS, ARCHITECTS AND CONTRACTORS)
H.O. / A.O. : # 1005, 10th FLOOR, ANTRIKSH BHAWAN, 22-K.G. MARG, NEW DELHI-1
BRANCH OFFICE : SCO-283, SECTOR - 20, PANCHKULA-134 112
REGD. OFFICE : # 254, NAC, MANIMAJRA, CHANDIGARH-160 101

Ref.No. SE/AVP/SANC/PKL/ 2017/09/204

15th September, 2017

To, らど, HUDA, Sector 8, Panchkula

Subject:

Request for approval of Service Plan Estimates of Pocket 'B' in matter of License Nos. 609 to 612/2006 dated 27.03.2006 granted in name of M/s Samar Estates Pvt. Ltd. and developed as 'Parsvnath Royale' by M/s Parsvnath Developers Ltd. at Sector-20, Village Kundi, Panchkula on area ad-measuring 7.182 Acres.

Dear Sir,

In reference to the building plans approved of the captioned project vide BR-III memo no.9095 dated 30<sup>th</sup> March 2007 by Chief Town Planner, Haryana and in compliance of clause no. 6 thereof, please find attached the Service Plan Estimates in triplicate along with the drawings of Water Supply Scheme, Sewerage Disposal Scheme, Storm Water Drainage Scheme and Road Level Plan for processing and according approval at the kind earliest.

Warm Regards,

Truly yours,

for Samar Estates Pvt. Ltd.

Authorized Signatory

Copy to:

Chief Administrator, HUDA

Sector 6, Panchkula

The Director, Town & Country Planning Haryana, SCO 71-75, Sector 17, Chandigarh

