

M/S SIGNATURE GLOBAL HOMES PVT LTD

ESTIMATE FOR PROVIDING WATER SUPPLY,SEWERAGE, STORM WATER DRAINAGE, ROADS,STREET LIGHTING AND HORTICULTURE IN
RESPECT OF 15 ACRES RESIDENTIAL PLOTTED COLONY IN SECTOR 36,SHONA

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PROJECT REPORT/ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STROM WATER DRAINAGE, ROADS, STREET LIGHTING AND
HORTICULTURE IN RESPECT OF 15 ACRES RESIDENTAIL PLOTTED COLONY IN SECTOR 36 SHONA

The Haryana Government has prepared a master plan for development of Residential/Industrial/ Commercial urban estate SHONA. M/S SIGNATURE GLOBAL HOMES PVT LTD has desided to develop a part of the area in this master plan and has named this part as 15 Acres Residential plotted colony. This scheme is located in sector-36 of Haryana Urban Development Authority SHONA.

Water Supply1 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 20,000 litre per hour. The recharging of underground water table in this belt is stated to be good. However still we shall resort to rain water harvesting system to keep up the recharging system. 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 absolence of the tubewells. The ultimate requirement of tubewells includes provisions of 10% stand by. Ultimately, water shall be supplied to the Project by HARYANA URBAN DEVELOPMENT AUTHORITY, SHONA,

2 Design

The scheme has been designed for approved population of 4896 persons. The rate of water supply per head per day has been taken as 155.25 litres (135+15%) as per NBC 2016 / HUDA norms. in addition to above necessary provision of water for community area, shopping centres, 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 20,000 litre per hour. It is also proposed to equip required Nos 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 **560KL** capacity. in 6 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 is being planned near UGSR catering to the above requirement.

6 Distribution System

The distribution system for this development has been designed to supply @ 155.25 litre per head per day @ 3 times the average rate of flow on Hazen william formula. Necessary provision for laying CI/DI pipes conforming to relevant IS standards along with valves and specials has been made in the project. The minimum terminal head at any point will be more than 27.00 meters so that it can serve the stillt and four floors stories construction envisaged in the plan. Minimum pipe dia for distribution is kept as 100 mm dia. Drinking water supply and 100mm dia for flushing cum irrigation water supply.

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.

9 Storm Water Drainage

suitable provisions are contemplated in our scheme to ensure better recarging 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 9m wide. The following specification have been adopted which are reproduced below.

- (i) 300 mm GSB
- (ii) 250 mm stone aggregate
- (iii) 50 mm thick B.M
- (iv) 20 mm MSS

The above construction shall be done on well compacted sub grade as per specification .complete work will be carried out as per Ministry of Road Transport and highways (MORTH) specification, IRC guide lines or HUDA specification, 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 sprcification of P.H. Department as laid down by HUDA & Haryana Government.

14 Rates

Estimate for providing services in this pocket has been preoared 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 1722.76 Lacs**. The cost per gross acre for the phase works out to be **Rs 114.85 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 escalation, administrative departmental and unforeseen charges.

The cost per gross acre for this phase works out to **Rs. 114.85 Lacs/acre** which covers the provision of services like water supply, sewerage, storm water drainage, roads, street lighting and plantations including plantations maintenance thereof as well as future expansion whatsoever indicated.

DESIGN CALCULATION**Daily water requirement**

		For 15 Acres	unit
Total No. of Plots (Deen Dayal Awas)		272	Nos
Total No. of EWS Plots		0	Nos
Population per plot (Deen Dayal Awas)		18	Person/Plot
Population per plot (EWS)		9	Person/Plot
1 Therefore population (Deen Dayal Awas)		4896	persons
Therefore population(EWS)		0	persons
Total Population		4896	persons
	SAY	4896	Persons
Total daily Water requirement for plots (135 Lpcd + 15%)	@	155.25	Lpcd
		760104.00	Lpd
	Or Say	760.11	KLD (1)
2 Non residential building water requirement			
a Area of commercial		1	Nos
Daily water requirement	@	32000	Ltrs/Acre
Area of commercial		0.60019	Acre
Therefore daily water requirement		19206.05	lit/day
	Or Say	19.21	KLD
b Area of community center		1	Nos
Daily water requirement	@	25000	lit/day
Therefore daily water requirement		25000	lit/day
	Or Say	25	KLD
Total 2 (a+b)		44.21	KLD (2)
3 Area under Parks		1.14	Acre
Daily water requirement	@	25000	lit/acre/day
		28384.6	lit/day
		28.38	KLD
4 Area under Roads		3.91	Acre
Daily water requirement	@	5000	lit/acre/day
		19553.70	lit/day
		19.55	KLD
	Total	47.94	KLD
I Total daily requirement			
a.) For (1+2)		804.32	KLD
b.) Under Road+ Parks (4+5)		47.94	KLD
Total Daily Requirement		852.25	KLD
	Or Say	860.00	KLD
Assuming requirement for flushing as 1/3 of total domestic demand and therefore daily requirement for flushing		268.11	KLD
Or Say		270.00	KLD
Daily requirement of portable drinking water supply		536.21	KLD
Or Say		540.00	KLD
II Tubewell			
Assuming working hours of tubewells		16	hours
Assuming discharge/hour of each tubewell		20	KL/hours
Total domestic water requirement		540	KLD
No. of tubewells required		1.69	
Add 10% standby		0.17	
Total		1.86	
Proposed		2.00	(2W+1S)

So it is proposed 3 nos of tubewell. The provision of 3 no of tubewell has been made in the estimate because the water demand for horticulture and the flushing purpose is to be met from re circulated after treatment at STP and ultimate water supply is to be provided by HUDA.

III Pumping machinery for tubewell			
a Gross working load	=	45.00	m
b Average Fall in S.L	=	3.00	m
c Depression head	=	9.00	m
d Friction loss	=	3.00	m
	=	60.00	m
Say	=	60.00	m
BHP = $20000 \times 60 \times 1 / 60 \times 60 \times 75 \times 0.6$	=	7.40	BHP
With 60% efficiency	Proposed	7.5	BHP

It is proposed to install 3 no. Submersible pumping set with a discharge of 20000 ltr./hour (335 lpm) driven with 7.5 HP electric motor each

IV Underground Tank(Drinking water supply)			
Daily requirement for domestic use and other except fire fighting	=	536.21	KL
Fire Tank Capacity (100OP= 100O5.76)	=	221.27	KL
Say	=	230.00	KL
Capacity of under ground tank 60% day except fire fighting	=	321.73	KL
Say	=	330.00	KL
Fire water storage	=	230.00	KL
Total		560	KL

It is proposed to provide 1 no. under ground tank of capacity 560 KL which also includes 230 KL capacity for fire fighting.

Tank will have six compartments, two for fire, two for raw and the other two for domestic use. The water first enters the fire compartment, then over flows to the raw water use compartment so that the water in the fire compartment shall remain fresh.

V BOOSTING MACHINERY (Drinking water)

UG. Tank			
Daily requirement for domestic use	=	536.21	KL
Assuming 8 hours running 2 pumps (with one standby)			
Discharge/hour	=	33.51	KL/HR
	Or Say	35.00	KL/HR
	=	583.33	LTRS / MIN
Discharge/min	Or Say	583.33	LTRS / MIN
Head of pump	=	4.0	m
i) Suction lifts	=	5.0	m
ii) Friction loss in M<main & specials	=	31.0	m
iii) Clear head	=	40.0	m
	=	40.00	m
Say			
BHP of motor $(35 \times 1000 \times 40) / (4500 \times 75 \times 0.6)$		6.914	HP
SAY	=	7.5	HP


VI Over Head Services Resorver (Deleted) Direct pumping system adopted)

VII Gen Set	Nos.	HP		
Pumps for UG. Tank	2	7.5	=	15 HP
Pumps for Flushing Tank	1	10.0	=	10 HP
Tubewell	2	7.5	=	15 HP
Lighting			=	15 HP
				55 HP
				61.545 KVA
or 55 x 0.746 x 1.50				63 KVA
Say				

V	BOOSTING MACHINERY (Flushing water supply)			
	Daily requirement for flushing use	=	268.11	KL
	Add for horticulture and roads	=	47.94	KL
	TOTAL	=	316.04	KL
	Assuming 8 hours running 1 pumps (with one standby)			
	Discharge/hour	=	39.51	KL/HR
		Or Say	40.00	KL/HR
	Discharge/min	=	666.67	LTRS / MIN
		Or Say	666.67	LTRS / MIN
	Head of pump			
	i) Suction lifts	=	4.0	m
	ii) Friction loss in M<main & specials	=	4.0	m
	iii) Clear head	=	31.0	m
		=	39.0	m
		=	40.00	m
	Say			
	BHP of motor $(666.67 \times 40) / (60 \times 75 \times 0.6)$		9.877	HP
	SAY	=	10.0	HP
	Capacity of STP			
4	Sewage load 75 % of total daily water requirement		603.24	KLD
	Grand Total For 15 Acre		603.24	KLD
	STP Capacity (Or Say)		605.00	KLD

FINAL ABSTRACT OF COST

	Amount (Lacs.)
	For 15 Ac
Sub Work 1 Water Supply	295.00
Sub Work 2 Sewerage	509.49
Sub Work 3 S.W. Drainage	111.101
Sub Work 4 Roads	311.70
Sub Work 5 Street Lighting	57.55
Sub Work 6 Horticulture	2.53
Sub Work 7 Maintenance charges for	435.38
10 years i/c resurfacing of roads after 1st 5 years & 2nd 5 years.	1722.76
COST / Acre	114.85


Executive Engineer
HSVP Divn. No. VI
Gurugram


Superintending Engineer,
HSVP Circle-II, Gurugram


Addl. Chief Engineer
HSVP, Gurugram

WATER SUPPLY HEAD	Amount (Lacs.)
	For 15 Ac
Sub Head 1 Head Works	97.60
Sub Head 2 Pumping Machinery	32.40
Sub Head 3 Distribution System(Drinking)	30.92
Sub Head 4 Distribution System flushing cum irrigation	31.09
Total	192.01
Add 3% Contingencies & PE Charge	5.76
	197.77
Add 49% Departmental Charges	96.91
Total	294.67
(CO to final abstract of cost)	Say 295.00

Sub Head I					Water Supply Head Works Rs.(laks)
S. No.	Description	Unit	Qty	Rate	Amount
		Nos.	3	700000.00	21.00
1	Boring and installing 300X200 mm i/d tubewells with reverse/direct rotary rig complete with pipe strainer to a depth of about 150 m. complete.	Nos.			
2	Constructing pump chambers as per standard design of PWD PH/HUDA of size 4.90x4.25 m.	Nos.	3	100000.00	3.00
3	Construction of boundary wall gate around the Tubewell site.	Nos	1	100000.00	1.00
a)	Water Works	Nos	3	120000.00	3.60
b)	Tubewells	Nos			
4	Provision of footpath hedges and lawns at tubewell.	Nos	3	100000.00	3.00
5	Construction of boosting chambers of suitable size along with under ground tank of capacity 450 KL pumping machinery and generating set etc. complete in all respects.				
	Details of boosting station				3.00
i)	construction of boosting chamber	LS			
ii)	UG tank 560 KL capacity incl. 230 KL for fire fighting, domestic, raw & fire tank in six compartments	kl.	560	10000.00	56.00
7	Provision for carriage of material and other unforeseen items	LS			1.00
8	Provision for staff quarters for Maintenance.				
i)	350 sft	Nos.	LS	600000.00	6.00
ii)	440 sft	Nos.			
iii)	770 sft	Nos.			
				Total	97.60
	(C.O. to abstract of cost of Sub-work No.I)			Say	97.60

Sub Work I
Sub Head No. II

Water Supply
Pumping Machinery
Amount (Rs.)
(in Lakhs)

S. No.	Description	Unit	Qty	Rate	
		Nos.	3	200000.00	6.00
1	Providing and installing electricity driven electro or submersible pumping set capable of delivering about 20 KL water per hour against a total head of 60 M complete with motor and other accessories. (7.5HP)	Nos.			
2	Provision for diesel engine genset stand by arrangements for Tubewells.	Nos.	1	200000.00	2.00
3	Provision for cheap pressure type chlorination plant complete.	Nos.	1	100000.00	1.00
4	Provision for making foundations & erection of pumping machinery.	LS			2.00
5	Provision for pipes, valves & specials inside the pump chamber.	Nos.	3	200000.00	6.00
6	Provision for electric services connection including electric fittings for tubewells chambers complete. Including cost of trasfermer.	LS			2.50
7	Providing and installing centrifugal boosting pumping set for domestic water supply, capable of delivering water at 40M head complete in all respects. (7.5HP) (2 working + 1 standby)	Nos.	3	150000.00	4.50
8	Providing and installing centrifugal boosting pumping set for flushing water supply, capable of delivering water at 40M head complete in all respects. (10HP) (1 working + 1 standby)	Nos.	2	170000.00	3.40
9	Providing Gen set 63 KVA.	LS			4.00
10	Provision for carriage of materials and other unforeseen items.	LS			1.0
				Total	32.40
	(C.O. to abstract of cost of Sub-work No.I)			Say	32.40

Sub Work I Sub Head No. III				Water Supply Distribution System/Rising Main	
S. No.	Description	Unit	Qty	Rate	IN LACS
1	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.				
i)	150 mm dia	M	16	1575.00	0.25
ii)	100 mm dia	M	1669	1250.00	20.86
2	Providing and fixing sluice valves including cost brick masonry chambers complete in all respects.				
i)	150 mm i/d	Nos.	1	15000.00	0.15
ii)	100 mm i/d	Nos.	27	12000.00	3.24
4	Providing and fixing 150 mm dia NRV including cost of brick masonry chamber.	Nos.	3	10000.00	0.30
5	Providing and fixing 80 mm dia air valves and scour valves including cost of brick masonry chamber.	Nos.	2	10000.00	0.20
6	Providing and fixing fire hydrants complete with masonry chambers.	Nos.	19	10000.00	1.90
7	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.	30	1000.00	0.30
8	Provision for carriage of material	LS		100000.00	1.00
10	Provision for rising main from tubewells to UG Tank				
i)	100 mm	M	95	1250.00	1.1875
11	Provision for rising main from main Water supply line to UG Tank (DI Pipe)				
i)	100 mm	M	122	1250.00	1.53
	(C.O. to abstract of cost of Sub-work No.I)				
			Total		30.92
			Say		30.92

Sub Work I Sub Head No. IV				Water Supply Flushing and Irrigation	
S. No.	Description	Unit	Qty	Rate	IN LACS
1	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.				
i)	100 mm dia	M	1683	1250.00	21.04
2	Providing, laying, jointing & testing HDPE (SH80) pipes including cost of excavation complete as per ISI marked.				
i)	110 mm dia	M	4	1250.00	0.050
ii)	75 mm dia	M	426	715.00	3.046
iii)	63 mm dia	M	0	618.00	0.000
iv)	50 mm dia	M	89	415.00	0.369
v)	40 mm dia	M	97	310.00	0.301
vi)	32 mm dia	M	457	240.00	1.097
vii)	25 mm dia	M	15	120.00	0.018
2	Providing and fixing sluice valves including cost brick masonry chambers complete in all respects.				
i)	100 mm i/d	Nos.	28	12000.00	3.36
i)	75 mm i/d	Nos.	2	9000.00	0.18
3	Providing and fixing 80 mm dia air valves and scour valves including cost of brick masonry chamber.	Nos.	3	10000.00	0.30
4	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.	33	1000.00	0.33
5	Provision for carriage of material	LS		100000.00	1.00
	(C.O. to abstract of cost of Sub-work No.I)				
			Total		31.09
			Say		31.09

Sewerage Scheme

Sub Work II

S. No.	Description	Unit	Qty	Rate	in Lacs
1	Providing, lowering, jointing, cutting salt glazed stone ware/RCC NP ³ pipes and specials into trenches including cost of excavation, bed concrete lot of manholes complete.				
i)	200 mm i/d stone ware	M	302	1250.00	3.78
a)	Average depth upto 1.5 m	M	1105	1600.00	17.68
b)	Average depth 1.5 m to 4.5 m				
ii)	250 mm i/d stone ware	M	46	1800.00	0.83
a)	Average depth 1.5 m to 4.5 m				
iii)	300 mm i/d stone ware	M	9.5	2100.00	0.20
a)	Average depth 1.5 m to 4.5 m				
2	Provision for providing oblique junctions	LS			2.0
3	Provision for temporary timbering etc.	LS			1.0
4	Provision for providing and fixing vent shaft at suitable places as per PH requirements	LS			2.0
6	Provision for cutting of roads and carriage of materials etc. and other unforeseen charges	LS			1.0
7	Provision for connection with HUDA	LS			1.0
8	Provision of STP 605 KLD	LS			302.5
			Total		331.98
	Add 3% contingencies & PE charges				9.959475
					341.94
	Add 49% Deptt. Charges				167.55
			Total		509.49
	(C.O. to abstract of cost of Sub-work No. 2)			Say	509.49

**Storm water
drainage**

Sub Work III

S. No.	Description	Unit	Qty	Rate	In Lacs
1	Providing, lowering, jointing, cutting RCC NP ³ pipes and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.				
i)	400 mm i/d	M	1246	1500.00	18.69
a)	Average depth upto 1.5 m	M	583	1750.00	10.2025
b)	Average depth 1.5 m to 4.5 m				
2	Provision for road gullies i.e. single and double.	LS			2.00
3	Provision for lighting, watching and temporary diversion of traffic.	LS			1.00
4	Provision for cutting of roads and carriage of materials etc. and other unforeseen items.	LS			1.00
5	Provision for temporary disposal arrangements/ Re-charge pit.	Nos	2	1500000.00	30.00
6	Provision for connection with HUDA.	LS			1
7	Provision for timbering and shoring	LS			0.50
8	Providing for temporary disposal arrangement till HUDA service are provided LS	LS			8.00
					72.39
					2.17
	Add 3% contingencies				74.56
					36.54
	Add 49% Deptt. Charges				
				Total	111.10
				SAY	111.101
	(C.O. to abstract of cost of Sub-work No. 1				

Road Work

Sub Work IV					In Lacs
S. No.	Description	Unit	Qty	Rate	
	Site Clearance				
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes shrubs saplings and trees girth upto 300mm 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 removable and disposal of top soil not exceeding 150mm thickness by manual means in area of light jungle as per drawing and clause 201 of morth specifications	hectare	1.58	50000.00	0.79
	Earth Works				
2	Provision for levelling and earth filling as per site conditions.	Acre	3.91	150000.00	5.87
3	Provisions for 300 mm GSB 250 mm thick stone aggregate layer 50 mm thick B.M. 20 mm th M.S.S.				
	Total	Sq. M	12681	1200.00	152.17
4	Miscellaneous items				
(a)	Providing for Kerbs & Channels <u>for 15 ACRES</u> 9M wide road 1410 x 2 = 2820 RM	RMT	2820	600.00	16.92
(b)	Provision of foot path of precast conc. <u>for 15 acres (9m)</u> 9 wide road 1410 x 1.2x 2 = 3384 SQM	Sq. M	3384	600.00	20.30
4	Provision for indicate plate / guide map/ demarcation burji etc./ traffic light etc.	LS			0.50
	Provision for plot indicators LS				1.00
	Provision for demarcating burgies LS				1.00
	Provision for traffic arrangement				2.00
	Provision for carriage of material LS				1.00
	Construction of pavement in shopping area 169+89=258 sqm	sqm	258	600.00	1.55
					203.10
	Add 3% contingencies				6.09
					209.19
	Add 49% Deptt. Charges				102.505
				Total	311.70
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK -			SAY	311.70

Sub Work V					Street Lighting
S. No.	Description	Unit	Qty	Rate	In Lacs
1	Providing street lighting on roads as per standard specification complete in all respect				
	Provision made on L.S. cost @ Rs. 25,0000.00 per acre	L.S.	15	250000.00	37.50
					37.50
	Add 3% contingencies				1.13
					38.63
	Add 49% Deptt. Charges				18.93
				Total	57.55
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - V)			SAY	57.55

Sub Work VI

S. No.	Description	Unit	Qty	Rate	Amount In Lacs
1	Development of lawn area				
a)	Trenching the ordinary soil upto depth of 60 cm. including removal and apcking of servicable material and disposing at the lead of 50m and making upto the tranched area to prope level by filling with earth mixed with manure before and after flooding trenches with water including cost of imported earth and manure.				
b)	Rough dressing of trenched area.				0.74
c)	Grassing with(doop grass) including watering and maintenance of lawns free from weds and fit for moving in rows 7.5 cm in either direction including for hedges and grill andbarred wire fencing around park and green belt (as per hudda Norms)				
2	Planting of trees with tree guards on roads at 40 intervals total length of roads = 1410 mtr No of trees @ 40m c/c = $1410 \times 2 / 40 = 70.5$ nos say = 70 nos Cost of the tree Excavation rs 60/- Manure rs 90/- Tree plant rs 150/- Tree gaurds rs 1000/- Total = 1300×70				0.91
	TOTAL				1.65
	Add 3% contingencies				0.05
					1.70
	Add 49% Deptt. Charges				0.83
				Total	2.53
				SAY	2.53
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - VI)				

Sub Work VII					Maintenance
S. No.	Description	Unit	Qty	Rate	In Lacs
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation and establishment charges as per HUDA norms after completion and resurfacing of roads after 10 years or 1st phase.	Acre	15	750000.00	112.50
2	Provision for resurfacing of roads after 1st five years of maintenance (as per details attached). Area in Sqm. @600/sqm	Sq. M	12681	600.00	76.09
3	Provision for resurfacing of road after 10 years @ Rs.750/- per sqm.	Sq. M	12681	750.00	95.11
					283.69
	Add 3% contingencies				8.51
					292.20
	Add 49% Deptt. Charges				143.18
				Total	435.38
				SAY	435.38
(C.O. TO FINAL ABSTRACT OF COST SUB WORK - VII)					