

FORM LC -V
(See Rule 12)
HARYANA GOVERNMENT
TOWN AND COUNTRY PLANNING DEPARTMENT

Licence No. 130 of 2019

This Licence has been granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rule 1976, made there under to Signature Global Homes Pvt. Ltd. & Sternal Builder Pvt. Ltd. in collaboration with Signature Global Homes Pvt. Ltd., 1309, 13th Floor, Dr. Gopal Das Bhawan, 28 Barakhamba Road, Cannought Place, New Delhi-110001 for setting up of Affordable Plotted Colony (DDJAY-2016) on an additional area measuring 4.2625 acres in the revenue estate of village Dhunela, Tehsil-Sohna, Sector-36, Sohna, Distt. Gurugram.

1. The particulars of the land, wherein the aforesaid Affordable Plotted Colony (DDJAY-2016) is to be set up, are given in the Schedule annexed hereto and duly signed by the Director, Town & Country Planning, Haryana.
2. The Licence is granted subject to the following conditions:
 - (i) That you will pay the Infrastructure Development Charges amounting to Rs. 52,39,790/- (Rs. Fifty Two Lacs Thirty Nine Thousand Seven Hundred Ninety Only) @ Rs.375/- per sq. mtr for the plotted area and Rs. 750/- for commercial component, in two equal installments. First instalment will be due within 60 days of grant of license and second instalment within six months of grant of license failing which 18% PA interest will be liable for the delayed period.
 - (ii) That you shall maintain and upkeep of all roads, open spaces, public park and public health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces, public parks and public health services free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
 - (iii) That you shall integrate the services with Haryana Urban Development Authority services as and when made available.
 - (iv) That you have not submitted any other application for grant of license for development of the said land or part thereof for any purpose under the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the provision of the Punjab Scheduled Roads and Controlled Area Restrictions of Unregulated Development Act, 1963.
 - (v) That you will transfer 10% area of the licenced colony free of cost to the Government for provision of community facilities. This will give flexibility to the Director to workout the requirement of community infrastructure at sector level and accordingly make provisions. The said area will be earmarked on the layout plan to be approved alongwith the license.
 - (vi) That you understand that the development/ construction cost of 24 m/18 m major internal roads is not included in the EDC rates and they shall pay the proportionate cost for acquisition of land, if any.


Director
Town & Country Planning
Haryana, Chandigarh


alongwith the construction cost of 24 m/18 m wide major internal roads as and when finalized and demanded by the Department.

- (vii) That you shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.
- (viii) That you shall make arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available from External Infrastructure to be laid by Haryana Urban Development Authority or any other agency and provisions of EDC facilities may take long time and you shall not claim any damages against the Department for loss occurred if any.
- (ix) That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Land Act, 1900 and any other clearance required under any other law.
- (x) That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- (xi) That the provision of solar water heating system shall be as per guidelines of Haryana Renewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
- (xii) That you shall use only LED fitting for internal lighting as well as campus lighting.
- (xiii) That you shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- (xiv) That it will be made clear at the time of booking of plots/commercial space that specified rates include or do not include EDC. In case of non inclusion of EDC in the booking rates, then it may be specified that same are to be charged separately as per rate fixed by the Govt. you shall also provide detail of calculation of EDC per sqm/per sft to the allottees while raising such demand from the plot owners.
- (xv) That you shall keep pace of development atleast in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- (xvi) That you shall arrange power connection from UHBVNL/DHBVNL for electrification of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which licensee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. UHBVNL/DHBVNL and complete the same before obtaining completion certificate for the colony.

- (xvii) That you shall complete the project within seven years (5+2 years) from date of grant of license as per clause 1(ii) of the policy notified on 01.04.2016.
- (xviii) That no clubbing of residential plots for approval of integrated zoning plan of two adjoining plots under same ownership shall be permitted.
- (xix) That you will pay the labour cess as per policy instructions issued by Haryana Government vide Memo No. Misc. 2057-5/25/2008/2TCP dated 25.02.2010.
- (xx) That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled bank wherein you have to deposit thirty percentum of the amount received from the plot holders for meeting the cost of Internal Development Works in the colony.
- (xxi) That no further sale has taken place after submitting application for grant of licence.
- (xxii) That you shall not give any advertisement for sale of plots/ commercial area before the approval of layout plan.
- (xxiii) That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of applied land.
- (xxiv) That you shall abide by the terms and conditions of the policy notified on 01.04.2016.
- (xxv) That the provisions of the Real Estate (Regulation and Development) Act, 2016 and rules framed thereunder shall be followed by the applicant in letter and spirit.

3. The licence is valid up to 06/12/2024.

Dated: The 07/12/2019.
Chandigarh


(K. Makrand Pandurang, I.A.S.)
Director, Town & Country Planning
Haryana, Chandigarh
Email: tcpharyana7@gmail.com

Endst. No. LC-3856-B/Asstt.(AK)/2019/ 30194

Dated: 09-12-2019

A copy along with a copy of schedule of land is forwarded to the following for information and necessary action: -

1. ✓ Signature Global Homes Pvt. Ltd. & Sternal Builder Pvt. Ltd. in collaboration with Signature Global Homes Pvt. Ltd., 1309, 13th Floor, Dr. Gopal Das Bhawan, 28 Barakhamba Road, Connaught Place, New Delhi-110001 alongwith a copy of agreement, LC-IV B, Bilateral agreement and layout plan.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Chief Administrator, Housing Board, Panchkula alongwith copy of agreement.
5. Managing Director, HVPN, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
6. Joint Director, Environment Haryana-Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.
7. Addl. Director Urban Estates, Haryana, Panchkula.
8. Administrator, HSVP, Gurugram.

9. Chief Engineer, HSVP, Panchkula.
10. Superintending Engineer, HSVP, Gurugram along with a copy of agreement.
11. Land Acquisition Officer, Gurugram.
12. Senior Town Planner, Gurugram alongwith layout plan.
13. Senior Town Planner (E&V), Haryana, Chandigarh.
14. District Town Planner, Gurugram along with a copy of agreement and layout plan.
15. Chief Accounts Officer O/o DTCP, Haryana, Chandigarh along with a copy of agreement.
16. Nodal Officer (Website) to update the status on the website.
17. Deputy General Manager (Branch Head), Indian Bank, Corporate Branch, 1st and 2nd Floor, G 4, Connaught Place, New Delhi with reference to your memo no. IB/CBD/CRM 5/M/2019-2020/39 dated 02.09.2019.



(Rajesh Kaushik)
District Town Planner (HQ)
For: Director, Town & Country Planning
Haryana Chandigarh

To be read with License ...130...dated 07/12 of 2019

Detail of land owned by Sternal Buildcon Pvt. Ltd;

Village	Rect No	Killa No	Area (K-M)
Dhunela	21	19/2	3-7
		23/1	4-0
		22/2	6-2
		23/2	4-0
	24	3/3	0-15
		2	7-18
		Total	26-2

Detail of land owned by Signature Global Homes Pvt. Ltd;

Village	Rect No	Killa No	Area (K-M)
	24	3/1/1	0-10
		3/1/2	1-19
		3/2/1	1-5
		3/2/2	3-6
		4/1	1-0
		Total	8-0
		Grand Total	34-2

Or 4.2625 Acres


Director,
Town & Country Planning
Haryana



**EXTERNAL DEVELOPMENT WORKS
DESIGN AND COST ESTIMATES**

FOR

**PROPOSED RESIDENTIAL PLOTTED
COLONY UNDER DEEN DAYAL JAN
AWAS YOJNA IN SECTOR - 36
SOHNA, OVER AN AREA OF (10.55
ACRES) BEING DEVELOPED BY**

**DEVELOPED BY
M/S SIGNATURE GLOBAL HOMES PVT. LTD.**

**PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN
SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY
SIGNATURE GLOBAL HOMES PVT.LTD.**

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 10.55 ACRES PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

The Haryana Government has prepared a master plan for development of Residential / Industrial/Commercial urban estate SOHNA. M/S SIGNATURE GLOBAL HOMES PVT LTD has decided to develop a part of the area in this master plan and has named this part as 10.55 Acres Residential plotted colony. This scheme is located in sector -36 of Haryana Urban Development Authority SOHNA. License has already been granted under by DGTCP read with licence no 3632 to be road with license no 22 of 2018 dated 21.3.2018. The brief details of the colony are as

WATER SUPPLY

At present the source of water supply in this area is borewells. As the underground water is potable, provision for 2 number of borewells has been made on temporary basis in this estimate. It has been proposed to construct the under ground tanks of capacity as per attached details, and at location for domestic purpose and for fire protection. The underground tanks will be fed from the borewells and HUDA supply, which will feed overhead tanks on the roof of the buildings. The water supply system has been designed as per Hazen Williams formula.

DESIGN

The scheme has been designed for population of 2538 persons for Housing. The rate of water supply per head / day has been taken as 172.5 liters (150+15%) as per HUDA norms in addition to above necessary provision of water for club and parks etc. have been taken into account for calculating the maximum quantity of water requirement.

PUMPING REQUIREMENTS

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any electricity failure.

PUMPING CHAMBER AND PUMPING EQUIPMENTS

It has been proposed to equip each tubewell with an electrically driven set ejecto type or submersible pump capable of driven 18000 liters per hour. The provision for standby generating set has also been provided in case of any electricity failure. Generator will be provided separately or added to the capacity of main generator.

**PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN
SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY
UNDERGROUND STORAGE TANK**

Underground storage tank provision has been made in two compartments, which cater for the domestic as well as for fire fighting requirement. The water for fire water compartment shall overflow to the domestic compartment so that the water in the fire compartment also remain full & fresh and will not contaminate.

BOOSTING STATION

The boosting station is being planned near underground storage tank catering to above requirement.

DISTRIBUTION SYSTEM

The distribution system for this development has been designed to supply @ 150+15% UFW = 172.5 liter per head per day @ 3 times the average rate of flow on Hazen William formula. Necessary provision for laying CI/DI pipes confirming to relevant IS standard along with valves and special has been made in the project. The minimum terminal head at any point will be more than 27 Mtrs. so that it can be serve the stilt and four floor stories construction envisaged in the plan. Minimum pipe dia. for distribuiton is kept as 100 mm dia.

RISING MAIN

Raising main from HUDA water main or sector road to water work have also been proposed as provision has been made in this estimate.

SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to HUDA sewer main. The sewerage system has been marked on respective plans.

The sewer lines have been designed for three times average D.W.F. in relation to water supply demand. It has been assumed that about 80% of the domestic water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft/sec self cleaning velocity. Necessary provision for laying S.W./R.C.C. pipe sewer line, construction of required number of manholes etc. has been made in the estimate.

Necessary design statement for entire sewerage system has been prepared and attached with estimate. Manning's formula has been used for the design of sewerage system.

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STORM WATER DRAINAGE**

Since the Master Scheme has been proposed with pipe drain, we proposed to lay pipe drains with required number of catch basins for disposal of storm water. The intensity of rain fall has been taken as 40mm per hour. A minimum size of 400 mm dia NP3 pipe storm water pipe will be provided and designed as per Manning's formula.

SPECIFICATIONS

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

ROADS

The roads in the colony have been planned as minimum 9 M wide. The following specification have been adopted which are reproduced below:

1. 300 mm GSB
2. 250 MM Stone aggregate
3. BW-50 mm thick
4. MSS-20 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 specification, IRC guide lines or HUDA specification, which ever applicable.

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STREETLIGHTING**

Provision of lighting on surrounding area has been made.

HORTICULTURE

Estimates and details of plantation, landscaping, signage etc. has been included.

RATES

The estimate has been prepared based on the present market rates.

COST

The total cost of the scheme, including cost of all services works out to Rs. ~~796.81~~ ^{981.83} Lacs Including 3% contingencies and 49% departmental charges, price escalation & other unforeseen charges. Cost per acres comes to Rs. ~~75.53~~ ^{93.00} lacs.

M/S SIGNATURE GLOBAL HOMES PVT. LTD.

(Authorized Signatory)

**PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA
IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY
TOTAL WATER REQUIREMENT**

(I) DAILY WATER REQUIREMENT

A

a) A TYPE	=	7 Plots
b) B TYPE	=	40 Plots
c) C TYPE	=	10 Plots
d) D TYPE	=	74 Plots
e) D' TYPE	=	14 Plots
f) J TYPE	=	35 Plots
g) J' TYPE	=	6 Plots
h) Misc	=	2 Plots
Total	=	188 Plots
@13.5 Persons/Plot	=	2538 Persons
Total population	=	2538 Persons
@172.5 LPCD (150+15% U.F.W.)	=	437805 Liters/ Day
Say	=	440000 Liters/ Day

B

Commercial		
a) Commercial Building (0.420 Acres = 1700.065 sqm @ 3 sqmt/ person	=	567 Persons
i 10% staff / shopkeepers		56.7 Persons
For staff @ 45 lpcd		2551.5 Liters/day
ii 90% Visitors		510.3 Persons
For staff @ 15 lpcd		7654.5 Liters/day
b) Community Building 1.056 Acres = 4271.956 sqm area	=	4271.95 Sqmt.
i 50% for office area		2135.975 Sqmt.
For office building @ 10 sqmt / person		214 Persons
For staff @ 45 lpcd		9611.89 Liters/day
ii 50% for community building		2135.975 Sqmt.
For community building @ 1.4 sqmt / person		1526 Persons
For staff @ 15 lpcd		22885 Liters/day
c) Maintenance Staff (Such as Gardener, ESS Staff, Security Guards etc.)	=	20 Persons
@45 LPCD	=	900 Liters/day
d) Back Wash Filters - L.S.	=	10000 Liters/day
e) Floating Population 10% of Population	=	254 Persons
@ 15 LPCD	=	3810 Liters/day
Total Commercial	53648.89	57413 Liters/day
SAY		60000 Liters/day

C

Horticulture & Road side plantation		
a) Area under Green area (0.792 Acres = 3205.04 sqmt. @ 6.17 Liters / sqmt.	=	16025.00 Liters/day
b) Area under road & paved area of 1.02 Acres @ 25 KL/Acer	=	25500.00 Liters/day
Total	54400	41525.00 Liters/day
Or Say	24900	42000.00 Liters/day

The demand of Horticulture & Road work will met from recirculated water after treatment at S.T.P.

Total Water demand (A + B)	495218 491408 Liters/day
Total Water demand (KLD)	495.22 491.40 KLD
Or Say	500.00 KLD
Domestic water demand	309834
65% of AV/WD of (A) +35% of [B (a+b+c+e) + 100% of B (c)]	311167.90 309.83 Liters/day
Domestic water demand (KLD)	311.17 309.83 KLD
Or Say	315.00 KLD
Flushing water demand	181574
35% of AV/WD of (A) +65% of [B(a+b+d)]	184050 181.57 Liters/day
Flushing water demand (KLD)	184.05 181.57 KLD
Or Say	185.00 KLD

Sewage Treatment Plant Capacity

Average Sewerage Contribution Considering 80% of AV =
domestic water demand & 90% of AV/Flushing demand 418500 Liter / Day

Sewage Treatment Plant Capacity (KLD)	= 418.50 KLD
Or Say	= 420.00 KLD

Sewage scheme

Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	= 1310000 Liters
	= 291111 GPD
	= 0.539 Cusces

Hence 250 mm dia pipe having design capacity 0.659 cusces is sufficient to carry the above discharge

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(I)	BOREWELLS	
	Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day	
(a)	Total domestic water demand	315 KLD
(b)	Number of borewells $315/(18 \times 16)$	1.094
	Total	1.094
	Say	2.00
	Total <i>one</i>	2 Nos.
	So, it is proposed to provide 2 Nos. of tube wells (1W+1S.) Moreover, the water demand for horticulture purposes is to met from recirculated water after treatment at STP and ultimate water supply is to provided by HUDA.	

50% ref.

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(II) Pumping Machinery for Borewell

Gross working Head	=	30.0 Meters
Average Fall in S.L.	=	5.0 Meters
Depression Head	=	5.0 Meters
Friction loss in main + Positive head	=	10.0 Meters
Total	=	50.0 Meters
Or Say	=	50.0 Meters

$$\text{Pump HP} = \frac{18000 \times 50 \times 100}{60 \times 60 \times 75 \times 60} = 4.76 \text{ H.P.}$$

Or Say

It is proposed Nos 2 Tube Wells of 5 H.P. each 60M head

(III) Under Ground Water Tanks

a) Total Domestic Water Demand	=	311168 Liters/day
Storage (One day)	=	311 KLD
Or Say	=	315.00 KLD

Fire Tank = 50 KLD

Hence it is proposed to provide underground tank which also includes 50 KL capacity for fire fighting as well.

it is proposed to construct an underground tank of 365 KLD having 185 KLD for treated water, 185 KLD as raw water.

a) For Under Ground Tank		
Total water demand (Domestic)	=	315.00 KLD
Pumping 6 hour pumping	=	875.00 LPM
Or Say	=	900.00 LPM

Gross Working Head		
- Suction lift	=	3.00 Meters
- Delivery head	=	5.00 Meters
- Frictional loss in Mains & Specials+ Positive head	=	7.00 Meters
- Clear head required (S+4) = 10+4x4	=	27.00 Meters
Total	=	42.00 Meters
Or Say	=	45.00 Meters

$$\text{Pump HP} = \frac{900 \times 45 \times 100}{60 \times 75 \times 60} = 12.88 \text{ H.P.}$$

Or Say

15.0 H.P.

It is proposed to provide 2 nos. of motors of 15 HP (1W+1S) sets of 900 LPM discharge at 45 M head for domestic supply & generator set of same capacity in case of electric failure) for domestic purpose.

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(IV) Under Ground Flushing Water Tanks (from STP)

a) Average Water Demand	=	495218 Liters/day
Flushing Water Demand	=	185.00 KLD
Or Say	=	185 KLD
Pumping 6 hour pumping	=	513.89 LPM
Or Say	=	515.00 LPM

$$\text{Pump HP} = \frac{515 \times 45 \times 100}{60 \times 75 \times 80}$$

$$= \frac{8.58}{7.36} \text{ H.P.}$$

Or Say

$$10.00 \text{ H.P.}$$

It is proposed to provide 2 nos. of motors of 10 HP (1W+1S) sets of 515 LPM discharge at 45 M head for flushing supply & generator set of same capacity in case of electric failure) for flushing purpose.

(V) Irrigation Pumping

a) Plot Area	=	10.55 Acres
	=	42694.27 Sqmt
Water Demand of Horticulture + Road Area Plantion	=	42000.00 ²⁵⁰⁰⁰ LPD
4 Hours Pumping	=	10500.00 ¹⁰⁴¹⁶ LPM
Say	=	10500 ¹⁰⁵ LPM
Head	=	35 Mtr.
Pump HP = $\frac{18 \times 35 \times 100}{60 \times 75 \times 70}$	=	2.00 ^{1.36} H.P.
Or Say	=	2.00 ^{3.00} H.P.

It is proposed to provide 2 nos. of motors of ¹⁰⁵ 3.0 HP sets of ~~180~~ 105 LPM discharge at 35 M head (One pump are working and one as standby & generator set of same capacity in case of electric failure.)

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(VII) GENERATING SETS

S. No	Equipment	QTY	HP	Total HP	
1	Borewell	2	7.50 6.0	7.50 12.0	
2	Booster Pump (for domestic) + Flushing+ irrigation pump	1+1+1	15+10+3 (2.5)	27.0 28.0 10.0	
	Total			40.0	44.50
			33.20	29.84	KW
	Disversity 0.8 & Power factor 0.8		49.80	46.63	KVA
	Or Say			50.00	KVA

It is proposed to add 50.0 KVA capacity for above said machinery to the main DG set.

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FINAL ABSTRACT OF COST

Sub Work	Description	Amount (Rs.) in Lacs
I	Water Supply Scheme	155.40 186.16
II	Sewerage Scheme	121.39 110.29
III	Storm Water Drainage	113.18 83.53
IV	Road	247.42 260.20
V	Street Lighting	40.47 24.29
VI	Horticulture	5.92 15.27
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after 1st 5 year & 11nd 5 years of mtc	298.05 467.13
	Total (in Lacs)	981.83 796.81
	Cost per acres (10.55) =	93.00 75.53

Rs 981.83 lacs
10.55 Acres = Rs 93.00 lacs p. gross area

(Authorized Signatory)

Executive Engineer
HSVP Division No. VI
Gurugram

Checked subject to comments
in forwarding letter No. 108/09
Dt. 12.09.2020. and notes
attached with the estimate

Superintending Engineer (HQ)
for Chief Engineer 1 HSVP
Panchkula

Superintending Engineer,
HSVP Circle-II, Gurugram

Addl. Chief Engineer
HSVP, Gurugram

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Sub Work No.1		Water Supply		Amount
Sub Head	Description			(Rs.). In lacs
1	Head Works			29.91 -37.22
2	Pumping Machinery			14.00 -11.45
3	Rising Main			6.97 -7.89
4	Distribution System			46.12 -57.43
5	Fire Fighting			— -2.42
6	Irrigation			4.26 -6.39
Say (In Lacs)				101.26 122.60
	Add 3% contingencies <i>ca. PE charges</i>	Rs.		3.04 -3.68
	TOTAL	Rs.		104.30 126.28
	Add 49% Department charges, Price Escalation & other unforeseen Charges.	Rs.		51.10 -61.88
	TOTAL COST	Rs.		155.40 188.16

155.40 lacs

c.o. to final abstract of cost

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Sub Work No-1					Water Supply		
Sub Work No-01					Head Works		
SI No	DESCRIPTION	Qty		Rate			AMOUNT (In Lacs.)
1	Boring and installing 200 mm I/d tubewell with reverse rotary rig complete with pipe and strainer to depth of about 150 m in all respect 2 Nos. @ Rs. 700000/- each	2	x	1000000	Rs.		14.00 10.00
2	Provision for Rising Main connecting Bore well with water main and by-pass arrangement.						
2.1	80 mm dia. GI Pipe	55	x	1100	Rs.		0.61
2.2	100 mm dia. GI Pipe	50	x	1375	Rs.		0.63 6.69
3	Providing Boosting arrangement by pumps (5.0 HP) (capacity 300 lpm at 50 M head, 2 no. @ Rs. 50,000/- each (for Tube Well)	2	x	12500 56000 2.00	Rs.		2.00 4.10
4	Providing Boosting arrangement by pumps (15.3 HP, capacity 900 LPM at 45 M head, 2 nos. each & @ Rs. 1,25,000/- each (For UGT) complete with panel, foundation etc.	1+1 2	x	150000	Rs.		3.00 2.40
5	Provision for carriage of materials and other unforeseen items	1	x		Rs.		0.50
6	Construction of U.G. tanks of total cap. (365 KL @ Rs. 4500/KL) incl. 50 KL for bore	365 KL	x	3500/14	Rs.		12.78 16.43
7	Provision for borewell chamber of size 1.5 x 1.5 x 1.5 m For Housing borewell 3 Nos. @ Rs. 50,000/- each	3	x	50000 (6.5)	Rs.		1.00 1.50
TOTAL					Rs.		27.91 37.22

Material statement of Borewell Rising Mains

S. No.	Name of line	Length of 80 mm dia. pipe		Length of 100 mm dia pipe
1	Borewell no. 1 to A	55		-
2	Borewell no. 2 to A to UGT	-		50
	Total	55		50

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-1					Water Supply		
Sub Work No-02					Pumping Machinery		
SI No	DESCRIPTION	Qty		Rate			AMOUNT (In Lacs.)
1	Providing and installing electricity driven Submersible pumping set capable of delivery about 18 KL / Hr. of water against a total Head of 50 M complete with motor and other accessories, 3-No @ Rs 150000/-	1	x	150000 (L.S.) 200000	Rs.		3.00 2.00
2	Provision for diesel engine genset each for standby arrangements for T.W., booster pumps complete with gear head arrangement. - 1 No. 50 KVA	1	x	500000 (L.S.) 2.50	Rs.		5.00
3	Providing for chlorination plant complete. 1 set @ Rs 45000/-	1	x	45000 (L.S.) 1.00	Rs.		0.45 1.00
4	Provision for making foundations and erection of Pumping machinery @ Rs 50000/-	1	x	50000 (L.S.) 1.50	Rs.		0.50 1.50
5	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.) Rs 50000/- for each	1	x	50000 (L.S.) 1.50	Rs.		0.50 1.50
6	Provision for electric services connection including electric fitting for tube wells & boosting chamber & cost of transformer etc. Rs 100000/-	1	x	100000 (L.S.) 2.50	Rs.		1.00 2.50
7	Provision for carriage of material and unforeseen item. L.S. Rs. 100000/-	1	x	100000 (L.S.) 1.00	Rs.		1.00
TOTAL					Rs.		11.45 14.00 lacs

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-1					Water Supply			
Sub Work No-03					Rising Main from HUDA			
SI No	DESCRIPTION	Qty		Rate				AMOUNT (In Lacs)
1	Providing, laying, jointing & testing 100 Dia D.I. (K-7) pipes including cost of excavation complete as per ISI marked	375	@	1250	Rs.			4.69 6.06
2	Providing and fixing 100 mm dia. sluice valves including cost of surface boxes and masonry chambers etc., complete in all respects.	1	@	12000	Rs.			0.12
3	Providing and fixing indicating plates for sluice valves, air valves and fire hydrants.	1	@	1400	Rs.			0.01 0
4	Provision for carriage of material & other foreseen items etc., L.S.	1		(L.S.) 60000	Rs.			0.15 0.60
5	Provision for making connection with HUDA main (L.S.) 1 job complete in all respect	1		(L.S.) 100000	Rs.			1.00
6	Provision for cutting road and making good the same (L.S.) 2 job	1		100000	Rs.			1.00
TOTAL					Rs.			6.97 7.69 Rs

Material Statement and design statement of HUDA Rising Mains

S. No.	Name of line			Dia. in mm	Length in m from municipal to U.G.T.
1	Municipal Main To UGT			100	375
	Total				375

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 35 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-1					Water Supply			
Sub Head No-04					Distribution system			
Sl No	DESCRIPTION	Qty		Rate				AMOUNT (In Lacs)
1	Providing, laying, jointing & testing D.I. (K-7) pipes including cost of excavation complete as per ISI marked							
	100 mm I/D	3175 m	@	1250	Rs.			39.69
	150 mm I/D	55 m	@	1650	Rs.			0.91
2	Providing, laying, jointing & testing uPVC pipes including Fitting, complete all respect for connection to plot holders			1575/-				
	25 dia uPVC pipe	1504	@	200	Rs.	(L.S)		3.01
	20 dia uPVC pipe	376	@	175	Rs.			0.66
3	Providing and Fixing sluice valves including cost of brick masonry chamber complete in all respect							
	100 mm I/D	8	@	12000	Rs.			0.96
	150 mm I/D	2	@	15000	Rs.			0.30
4	Providing & fixing full way lever operated forged brass ball valve of brass body with forged brass hard chrome plated steel ball tested to a pressure not less than 10 Kg / sqcm with threaded / flanged joints complete with nuts, bolts, gaskets, washers etc.							
	25 mm I/D	752	@	850	Rs.			6.39
	20 mm I/D	188	@	550	Rs.			1.03
5	Providing and Fixing air valves and scour valves including cost of brick masonry chamber complete	2	@	10000	Rs.			0.20
6	Providing and Fixing indicating plates for sluice valves	10	@	1000	Rs.			0.10
7	Provision for carriage of material & other foreseen items etc., (L.S). 2 Job including cutting of road and making the same	1	@	400000	Rs.	(L.S)		2.00
	TOTAL				Rs.			57.43
								46.12 lacs

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

S. No.	Description	200 mm	150 mm	100 mm	80 mm	25 mm	20 mm	Remarks
(A)	Domestic							
1	UGT- W1	-	15	-	-	-	-	
2	W1-W2	-	-	120	-	-	-	
3	W2-W3	-	-	40	-	-	-	
4	W3-W4	-	-	145	-	-	-	
5	W4-W5	-	-	180	-	-	-	
6	W5-W6	-	-	110	-	-	-	
7	W6-W7	-	-	155	-	-	-	
8	W7-W8	-	-	275	-	-	-	
9	W8-W9	-	-	50	-	-	-	
10	W9-W10	-	-	210	-	-	-	
11	W10-W11	-	-	125	-	-	-	
12	W11-W12	-	-	150	-	-	-	
13	W12-W13	-	-	110	-	-	-	
14	W13-W13 A	-	-	70	-	-	-	
15	W13-W14	-	-	60	-	-	-	
16	Dom. water connection to plot holders-188 nos and 4 seprate riser x 2m	-	-	-	-	1604	-	
	TOTAL	0	15	1810	0	1604	0	
(B)	Flushing							
1	STP-FWS1	-	40	-	-	-	-	
2	FWS1- FWS2-FES4	-	-	155	-	-	-	
3	FWS4- FWS5	-	-	385	-	-	-	
4	FWS5- FWS6	-	-	135	-	-	-	
5	FWS6- FWS6A	-	-	70	-	-	-	
6	FWS6- FWS7	-	-	250	-	-	-	
7	FWS7-FWS8	-	-	145	-	-	-	
8	FWS8-FWS3	-	-	245	-	-	-	
10	Flu. water connection to plot holders-188 nos x 2m	-	-	-	-	-	376	
	TOTAL		40	1365	0	0	376	0
	GRAND TOTAL	0	55	3175	0	1604	376	0

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

DOMESTIC WATER SUPPLY (HYDRAULIC CHART)

S. No	Ref of line	Length in mts	Self			Additional			Domestic Water Demand @ 65% of ANWD Spcs +35% commercial	Peak Demand @ 3 time of ANWD	Dia of Pipe	Velocity	Loss of Head in 1000 M (m/s)	Loss of head in the line (m/s)	Level in start			Remarks
			Plot @ 13.5 persons @ 172.5 LPCD	Plot @ 13.5 persons @ 172.5 LPCD	Plot @ 13.5 persons @ 172.5 LPCD	Plot @ 13.5 persons @ 172.5 LPCD	Plot @ 13.5 persons @ 172.5 LPCD	Plot @ 13.5 persons @ 172.5 LPCD							HL	GL	TH	
1	A1-UJT	-	-	-	-	-	-	-	311.20	933.6	-	-	-	-	244.10	210.10	30.00	Ground level = 210.10 UJT Bed level = 207.10 Mtr
2	UJT-W1	15	158 Pkts = 2638 person = 437805 Ltrs	254 Persons = 3810 Ltrs	158 Pkts = 2638 person = 437805 Ltrs	63405 Ltrs	-	485.25	311.20	933.6	100	0.75	5.39	0.06	249.02	210.10	38.92	Acid Building head 8x4 = 10+15x3.2 = 27 mtr Add suction head = 5 mtr Add delivery head = 2mtr Add positive head = 4 mtr Add friction loss = 3.100 Head level = 249.10 mtr
3	W1-W2	110	15 Pkts = 216 person = 37260 Ltrs	22 Persons = 330 Ltrs	172 Pkts = 2322 person = 400505 Ltrs	-	-	485.28	311.20	933.6	100	0.75	5.30	0.04	245.30	210.10	35.20	
4	W2-W3	40	-	-	172 Pkts = 2322 person = 400505 Ltrs	-	-	457.43	286.80	850.55	100	0.75	5.60	0.22	249.18	210.10	39.08	
5	W3-W4	145	30 Pkts = 405 person = 68700 Ltrs	27 Persons = 405 Ltrs	152 Pkts = 2052 person = 35370 Ltrs	-	-	485.3	160.30	480.0	100	0.75	5.69	0.81	247.35	210.10	37.25	
6	W4-W5	180	17 Pkts = 230 person = 39275 Ltrs	23 Persons = 345 Ltrs	135 Pkts = 1827 person = 314470 Ltrs	Commercial = 10000 Ltrs	-	480.83	285.51	768.53	100	0.75	3.60	0.72	246.63	210.10	36.53	
7	W5-W6	110	16 Pkts = 216 person = 37260 Ltrs	22 Persons = 330 Ltrs	119 Pkts = 1607 person = 277270 Ltrs	-	-	370.80	230.60	691.8	100	0.75	4.82	0.53	248.10	210.10	38.00	
8	W6-W7	155	21 Pkts = 284 person = 48250 Ltrs	28 Persons = 420 Ltrs	98 Pkts = 1322 person = 228220 Ltrs	Community Backwash + Staff = 43405 Ltrs	-	323.03	203.75	608.35	100	0.75	3.20	0.60	245.0	210.10	35.50	
9	W7-W8	275	23 Pkts = 311 person = 52648 Ltrs	32 Persons = 480 Ltrs	75 Pkts = 1013 person = 174740 Ltrs	-	-	220.38	149.15	447.65	100	0.75	1.60	0.44	245.16	210.10	35.06	
10	W8-W9	50	8 Pkts = 108 person = 18630 Ltrs	11 Persons = 165 Ltrs	67 Pkts = 905 person = 156115 Ltrs	-	-	176.28	114.10	342.3	100	0.75	2.60	0.13	245.03	210.10	34.93	
11	W9-W10	210	15 Pkts = 203 person = 35000 Ltrs	20 Persons = 300 Ltrs	52 Pkts = 702 person = 121055 Ltrs	-	-	127.40	101.25	295.85	100	0.75	1.60	0.34	244.60	210.10	34.50	
12	W10-W11	125	15 Pkts = 203 person = 35000 Ltrs	20 Persons = 300 Ltrs	37 Pkts = 500 person = 85050 Ltrs	-	-	122.32	70.20	237.8	100	0.75	2.60	0.20	244.36	210.10	34.26	

13	W11-W12	150	16 Pipe = 216 person = 37200 L/s	22 Person = 330 L/s	-	27 Pits = 284 person = 48000 L/s	28 Persons = 4200 L/s	-	50.78	57.85	172.69	100	0.75	0.55	0.08	244.28	210.10	34.18
14	W12-W13	110	10 Pipe = 135 person = 23285 L/s	14 Person = 210 L/s	-	11 Pits = 149 person = 25700 L/s	15 Persons = 225 L/s	-	66.42	31.37	80.81	100	0.75	0.45	0.05	244.25	210.10	34.13
15	W12- W13A	70	4 Pipe = 54 person = 9335 L/s	3 Persons = 45 L/s	-	7 Pits = 85 person = 15300 L/s	10 Persons = 150 L/s	-	25.82	16.77	50.31	100	0.75	1.20	0.08	244.15	210.10	34.05
16	W13-W14	60	7 Pipe = 85 person = 15300 L/s	10 Person = 150 L/s	-	-	-	-	16.53	10.70	32.1	100	0.75	0.20	0.01	244.14	210.10	34.04

Note:- 1. Water supply lines should be laid as per N.B.C / Municipal Norms.

2. Water supply lines will have minimum 100mm C.I / D.I.

3. Level have been taken with reference to Road M. M.S.L. = 210.10

4. Water line should be hydraulic tested & bleached before put in operation.

FLUSHING WATER CAPACITY (HYDRAULIC CHART)																				
S. No	Ref of line	Length in mts	Self		Community Centre + Shopping Backwash, Staff (LPD)	Plot @ 13.5 persons @ 155.25 LPCD	Floating Population @ 10% of Population (LPD) @ 15 LPCD	Additional	AWWD	Flushing Water Demand @ 35% of AWWD Apts +65% of commercial	Peak Demand @ 3 time of AWWD	Dia of Pipe	Velocity	Loss of Head in 1000 M (mts)	Loss of head to the line (mts)	Level in start			Remarks	
			Plot @ 11.5 persons @ 155.15 LPCD	Flushing Population @ 10% of Population (LPD) @ 15 LPCD												HL	GL	TH		
1	AI-STP	-	-	-	-	168 Pkts = 2530 person = 437805 Ltrs	254 Persons = 3810 Ltrs	59405 Ltrs	495.25	164.05	592.15	-	-	-	-	-	249.10	210.10	30.00	Ground level = 210.10 UGT Bed level = 207.10 Mtr A03 Building head S44 = 7045x3.2 = 27 mts A02 suction head = 5 mts A05 Delivery head = 2mtr A02 positive head = 4 mts Add friction head = 3 mtr H600 level = 249.10 mtr
2	STP-FWS1	40	-	-	-	168 Pkts = 2530 person = 437805 Ltrs	254 Persons = 3810 Ltrs	59405 Ltrs	495.25	164.05	592.15	150	0.75	2.60	0.10	249.05	210.10	38.80		
3	FWS1-FWS2-FWS4	155	44 Pkts = 594 person = 103465 Ltrs	50 Person = 750 Ltrs	Commercial + Community Centre + Shopping Backwash + Staff = 53505	144 Pkts = 1944 person = 355140 Ltrs	194 Persons = 2810 Ltrs	194.05	495.25	164.05	592.15	100	0.75	2.60	0.40	248.60	210.10	38.00		
4	FWS4-FWS5	205	40 Pkts = 540 person = 97150 Ltrs	34 Person = 510 Ltrs	-	104 Pkts = 1404 person = 247190 Ltrs	140 Persons = 2100 Ltrs	118.24	336.25	118.24	367.72	150	0.75	3.20	1.17	247.43	210.10	37.35		
5	FWS5-FWS6	135	13 Pkts = 176 person = 30280 Ltrs	13 Person = 195 Ltrs	-	91 Pkts = 1229 person = 212005 Ltrs	123 Persons = 1845 Ltrs	86.18	244.48	86.18	258.54	100	0.75	2.30	0.30	247.13	210.10	37.03		
6	FWS6-FWS7-FWS8	70	4 Pkts = 54 person = 9715 Ltrs	3 Pkts = 40 person = 75 Ltrs	-	87 Pkts = 1175 person = 203600 Ltrs	113 Persons = 1770 Ltrs	75.40	213.85	75.40	226.2	100	0.75	2.30	0.16	246.68	210.10	36.88		
7	FWS7-FWS8	250	20 Pkts = 261 person = 46548 Ltrs	35 Person = 525 Ltrs	-	61 Pkts = 804 person = 142140 Ltrs	80 Persons = 1230 Ltrs	72.06	204.45	72.06	216.18	100	0.75	2.30	0.55	246.43	210.10	36.33		
8	FWS8-FWS9	140	15 Pkts = 203 person = 35000 Ltrs	20 Person = 300 Ltrs	-	40 Pkts = 520 person = 93000 Ltrs	62 Persons = 930 Ltrs	50.53	142.45	50.53	151.59	100	0.75	1.80	0.23	246.20	210.10	36.10		
9	FWS9-FWS3	345	31 Pkts = 419 person = 72280 Ltrs	40 Person = 600 Ltrs	-	-	-	-	72.01	25.7	77.1	150	0.75	0.42	0.10	246.10	210.10	36.00		

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.65 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-1					Water Supply	
Sub Work No-05					Fire fighting	
Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs.)
1	Providing, laying jointing & testing M.S. pipe lines for rising main including cost of fitting, valves, connection etc. complete in all respects					
	150 mm ID for Fire Brigade	25	@	1750.00	Rs	0.44
	150mm ID Two way connection	25	@	1750.00	Rs	0.44
	100 mm ID for Tanker Inlet	25	@	1650.00	Rs	0.41
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects					
	- 150 mm dia	2	@	15000.00		0.30
	- 100 mm dia	1	@	10000.00		0.10
	- 80 mm dia	0	@	7500.00		0.00
3	Providing for carriage of material (L.S.) 2 jobs	1	@	50000.00	Rs	0.50
4	Providing and fixing Indicating plate	3	@	1000.00	Rs	0.03
5	Providing, fixing, testing and commissioning one set of 4 way fire brigade connection of CI body with 4 Nos. 63 mm dia Stainless Steel male instantaneous inlet couplings, complete with cap and chain as reqd., suitable for connecting to 150 mm dia pipe header conforming to IS 904 complete as required	1	@	11500.00	Rs	0.12
6	Providing, fixing, testing and commissioning one set of 2 way fire brigade connection of CI body with 2 Nos. 63 mm dia Stainless Steel male instantaneous inlet couplings, complete with cap and chain as reqd., suitable for connecting to 150 mm dia pipe header conforming to IS 904 complete as required	1	@	8500.00	Rs	0.08
7	Providing and fixing Fire Hydrant with accessories complete.	0	@	10000.00	Rs	0.00
TOTAL					Rs	2.42
Material Statement						
S. No.	Location	200 mm dia pipe	150 mm dia pipe	100 mm dia pipe	80 mm dia pipe	Fire Hydrant
1	Tanker inlet connection 1 nos	-	-	25	-	-
2	Fire Brigade 4-way	-	25	-	-	-
3	Yard Hydrants	-	-	-	-	-
4	Two way connection	-	25	-	-	-
	Total	0	50	25	0	0
Fire Hydrant System						
1	Valves 150mm dia			2 Nos.		
2	Valves 100mm dia			1 No		
3	Valves 80mm dia			0 No		
4	Fire Brigade Four way + Two Way Connections			2 No		

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAIN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-1					Water Supply			
Sub Work No-06					Irrigation			
Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)		
1	Providing, laying, jointing and testing uPVC pipe line conforming to I.S 4985 including cost of excavation etc. complete in all respects							
	20 mm O/D	150	⊗	230	Rs	0.09		
	32 mm O/D	190	⊗	290	Rs	0.55		
	40 mm O/D for Ring Main	320	⊗	550	Rs	1.76		
	75 mm O/D for Ring Main	215	⊗	750	Rs	1.61		
	90 mm O/D from STP to Ring Main	85	⊗	850	Rs	0.72		
2	Providing and fixing Irrigation hydrant valve complete in all respect.	20	⊗	2800 3500	Rs	0.40 0.70		
3	Provision for carriage of material & other foreseen items etc. (L.S.) 2 jobs	1	⊗	50000	Rs	0.50		
4	Providing & fixing ball valve 20 mm	20	⊗	350	Rs	0.07		
5	Providing & fixing sluice valve complete with chamber.							
	- 40 mm dia	3	⊗	925	Rs	0.03		
	- 75 mm dia	3	⊗	1250	Rs	0.04		
	- 90 mm dia	1	⊗	3500	Rs	0.04		
6	Providing and fixing Irrigation pump 3.0 HP, 180 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	⊗	40000	Rs	0.80		
	TOTAL				Rs	5.39 4.26		
Material statement of Irrigation System								
S. No.	Line Name	90 mm OD	75 mm OD	50 mm OD	40 mm OD	32 mm OD	20 mm OD	Irrigation Hydrants
1	STP - G1	15						
2	G1-G5					190		
3	G1-G2	70						
4	G2-G3		30					
5	G3-Ring				125			
6	G2-G4		185					
7	G4-Ring				145			
8	Hydrant 20 No x 2 Mtr.						40	20
	Total	85	215	0	320	190	40	20

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SONNA, OVER AN AREA OF
(10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-II					Sewerage Scheme	
Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement 1 fine sand) including testing of joints etc. complete:	1045		12501		13.06
	200 mm dia	1388	②	794.25	Rs.	11.00
	250 mm dia	30	②	1175.90	Rs.	0.35
				1800/-		0.54
2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:					2.00 lacs
2.1	200 mm diameter S.W. pipe	1388	②	1154.80	Rs.	16.07
2.2	250 mm diameter S.W. pipe	30	②	1348.95	Rs.	0.40
3	Provision for lighting and watching L.S.	1	②	60000.00	Rs.	2.50
4	Provision for timbering and shuttering L.S.	1	②	100000.00	Rs.	2.00
5	Provision for STP to HUDA main by pumping	1	②	175000.00	Rs.	2.50
6	Providing boosting arrangement by 1+1 nos. pump for flushing water supply 10 HP capacity 515 L.P.M., 45 Meter Head, Complete with foundation and panels	2	②	100000.00	Rs.	2.00
7	Provision for making STP (KLD)	420	②	10000.00	Rs.	42.00
8	Provision for carriage of material (L.S.)	1	②	100000.00	Rs.	1.00
9	Provision of cutting road & making it good as same in original condition - 1 job	1	②	100000.00	Rs.	1.00
TOTAL					Rs.	77.04
Add 3% contingencies					Rs.	2.31
TOTAL					Rs.	79.35
Add 49% Department charges, price escalation, other for unforeseen charges					Rs.	39.47
TOTAL COST					Rs.	118.82

121.39 lacs

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOUNA IN SECTOR - 36 SOHNA OVER AN AREA OF
(10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Material statement of Sewerage System - As per drawing sheet							
S. No.	Name of Pipe Line	Length of Pipe in M					Remarks
		200 mm	200 mm branch	250 mm	300 mm	450 mm	
1	S1-S3	90	35	-	-	-	
2	S2-S3	50	30	-	-	-	
3	S3-S5	45	-	-	-	-	
4	S4-S5	50	15	-	-	-	
5	S5-S7	40	-	-	-	-	
6	S6-S7	60	35	-	-	-	
7	S7-S12	30	-	-	-	-	
8	S11-S12	75	-	-	-	-	
9	S8-S10	85	30	-	-	-	
10	S9-S10	40	25	-	-	-	
11	S10-S12	85	-	-	-	-	
12	S12-S18	70	30	-	-	-	
13	S17-S18	70	30	-	-	-	
14	S13-S14	70	40	-	-	-	
15	S14-S16	55	15	-	-	-	
16	S15-S16	70	40	-	-	-	
18	S16-S18	40	10	-	-	-	
20	S19-S20	30	-	15	-	-	
21	S18-S20	-	-	15	-	-	
22	S20-STP	-	-	-	-	-	
TOTAL		1045	335	30	0	0	

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER GREEN DAYAL JAIN AWAS YOUNA IN SECTOR - 38 SONHA OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.														
Calculations are based on Manning Formula $V = (1.486/n) \times R^{2/3} \times S^{1/2}$ in F.P.S System														
(Hydraulic Design Sewerage Scheme)														
Sl. No.	Name of Line	Length in Meter	Flow @ 15.5 LPS			Flow @ 45 LPS			Flow @ 13.5 LPS			Flow @ 15 LPS		
			Flow @ 15.5 LPS	Flow @ 45 LPS	Flow @ 13.5 LPS	Flow @ 15 LPS	Flow @ 45 LPS	Flow @ 13.5 LPS	Flow @ 15 LPS	Flow @ 45 LPS	Flow @ 13.5 LPS	Flow @ 15 LPS	Flow @ 45 LPS	Flow @ 13.5 LPS
1	61-63	28	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
2	62-63	50	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
3	63-65	45	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
4	64-69	55	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
5	65-67	40	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
6	66-67	60	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
7	67-612	32	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
8	67-612	75	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
9	68-610	85	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
10	68-613	60	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
11	613-612	61	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
12	612-610	78	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
13	617-610	78	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
14	615-614	70	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
15	614-619	65	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
16	615-616	70	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
17	616-612	43	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
18	616-620	38	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
19	618-620	15	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
20	620-677	15	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS	15 person +200 LPS	30 person +200 LPS	15 person +200 LPS
Total														

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Sub Work No-III		Storm water drain				
S. No.	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, lowering, laying and jointing R.C.C NP-3 pipes and specials into trenches including manholes, chambers etc., excavation, back filling and disposal of surplus earth complete in all respects.					
1.1	400 mm I/D Avg. depth upto 2.0 M.	1310	@	2500	Rs.	32.75
2	Provision for Road Gullies L.S.	1	@	150000 (L.S.)	Rs.	1.50 3.00
3	Provision for lighting and watching	1	@	50000	Rs.	0.50
4	Provision for timbering and shoring L.S.	1	@	150000	Rs.	1.50
5	Provision for carriage of material & other foreseen items etc., L.S.	1	@	55000 (L.S.)	Rs.	0.55 5.00
6	Provision for Rain water harvesting arrangement for (10.55 acre) @ 1.5 lakh / acre <i>at selected places</i>	10.55	@	150000 (L.S.)	Rs.	15.83 26.00
7	Provision for temporary connection with HUDA main <i>(L.S.)</i>	1.57	@	175000	Rs.	1.75 1.00
TOTAL <i>For Temporary disposal arrangements till</i>					Rs.	54.43 100
Add 3% contingencies <i>Hard Services are provide</i>					Rs.	1.63 73.75
TOTAL					Rs.	56.06 2.31
Add 49% Department charges, price esclation, other for unforeseen charges.					Rs.	27.47 75.96
TOTAL					Rs.	83.53 37.22

C.O to final assessment cost

113.18

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES

PVT.LTD.

STORM WATER DRAIN

S. No	Name of Drain	400mm dia RCC pipe
Rain Water Harvesting - 1		
1	D1-D2	40
2	D3-D2	15
3	D2-RWH-1	10
4	Over Flow pipe	10
	Total	75
Rain Water Harvesting - 2		
1	D1-D3	20
2	D2-D3	45
3	D3-D5	40
4	D4-D5	45
5	D5-D6	20
6	D6-RWH-2	10
7	RWH - 2- Over Flow pipe	5
	Total	185
Rain Water Harvesting - 3		
1	D1-D3	20
2	D2-D3	50
3	D3-D5	35
4	D4-D5	50
5	D5-RWH-3	5
6	RWH - 3- Over Flow pipe	5
	Total	165
Rain Water Harvesting - 4		
1	D1-D2	30
2	D2-RWH-4	5
3	RWH - 4- Over Flow pipe	5
	Total	40
Rain Water Harvesting - 5		
1	D1-D3	15
2	D2-D3	65
3	D3-D5	10
4	D4-D5	70
5	D5-D8	20
6	D6-D8	35
7	D7-D8	75
8	D8-D9	5
9	D9-RWH-5	5
10	RWH - 5- Over Flow pipe	5
	Total	305
Rain Water Harvesting - 6		
1	D1-D4	40
2	D2-D4	60
3	D3-D4	65
4	D4-D5	5
5	D5-RWH-6	5
6	RWH - 6- Over Flow pipe	10
	Total	185

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Rain Water Harvesting - 7			
1	D1-D3		30
2	D2-D3		65
3	D3-RWH-7		5
4	RWH - 7- Over Flow pipe		5
	Total		105
Rain Water Harvesting - 8			
1	D1-D3		30
2	D2-D3		15
3	D3-D4		35
4	D4 - RWH-8		10
5	RWH - 8- Over Flow pipe		5
	Total		95
Rain Water Harvesting - 9			
1	D1-D2		15
2	D2-D3		50
3	D3 - RWH-9		5
5	RWH - 9- Over Flow pipe		5
	Total		75
Rain Water Harvesting - 10			
1	D1-D2		60
2	D2 - RWH-10		10
3	RWH - 10- Over Flow pipe		10
	Total		80
	GRAND TOTAL RWH (1-10)		1310

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times m^{2/3} \times s^{1/2}$ in F.P.S System

Sl. No.	Name of Line	Length in Meter	Catchment Area in sqmt		Total Area (Sqmt)	Discharge in Cusec (1 Acre = 1 Cusec)	Proposed dia of pipe (mm)	Velocity (m/sec)	Design Capacity of Pipe (Cusecs)	Gradient (Mtr.)	Drop (Mtr.)	Level at Start			Level at End		
			Self	Additional								G.L. (Mtr.)	LL. (Mtr.)	Depth (Mtr.)	G.L. (Mtr.)	LL. (Mtr.)	Depth (Mtr.)
Rain Water Harvesting - 1																	
1	D1-D2	40	2870	-	2970	0.709	400	0.75	3.328	1.500	0.08	210.10	208.90	1.20	210.10	208.82	1.28
2	D3-D2	15	365	-	365	0.090	400	0.75	3.328	1.500	0.03	210.10	208.90	1.20	210.10	208.82	1.28
3	D2-RWH-1	10	50	3235	3285	0.812	400	0.75	3.328	1.500	0.02	210.10	208.82	1.28	210.10	208.80	1.30

Rain Water Harvesting - 2

1	D1-D3	20	470	-	0.116	400	0.75	3.328	1.500	0.04	210.10	208.90	1.20	210.10	208.86	1.24
2	D3-D3	45	1285	-	0.318	400	0.75	3.328	1.500	0.09	210.10	208.00	1.20	210.10	208.81	1.29
3	D3-D5	40	810	1755	0.634	400	0.75	3.328	1.500	0.08	210.10	208.81	1.28	210.10	208.73	1.37
4	D4-D5	45	1970	-	0.467	500	0.75	3.328	1.500	0.09	210.10	208.90	1.20	210.10	208.73	1.37
5	D5-D6	20	420	4535	1.224	500	0.75	3.328	1.500	0.04	210.10	208.73	1.37	210.10	208.69	1.41
6	D6-RWH-2	15	4855	4855	1.224	500	0.75	3.328	1.500	0.03	210.10	208.68	1.41	210.10	208.66	1.44

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times m^{2/3} \times s^{1/2}$ in F.P.S System

Rain Water Harvesting - 3

1	D1-D3	20	325	-	325	0.000	400	0.75	3.328	1500	0.04	210.10	208.80	1.20	210.10	208.88	1.24
2	D2-D3	50	1865	-	1865	0.488	400	0.75	3.328	1500	0.10	210.10	208.90	1.20	210.10	208.80	1.30
3	D3-D5	35	415	2220	2635	0.651	400	0.75	3.328	1500	0.07	210.10	208.80	1.30	210.10	208.73	1.37
4	D4-D5	50	1180	-	1180	0.294	400	0.75	3.328	1500	0.10	210.10	208.90	1.20	210.10	208.73	1.37
5	D5-RWH-3	10	40	3825	3885	0.965	400	0.75	3.328	1500	0.02	210.10	208.73	1.37	210.10	208.71	1.38

Rain Water Harvesting - 4

1	D1-D2	30	820	-	820	0.203	400	0.75	3.328	1500	0.06	210.10	208.90	1.20	210.10	208.84	1.26
2	D2-RWH-4	10	170	820	990	0.245	400	0.75	3.328	1500	0.02	210.10	208.84	1.26	210.10	208.82	1.28

Rain Water Harvesting - 5

1	D1-D3	15	180	-	180	0.044	400	0.75	3.328	1500	0.03	210.10	208.90	1.20	210.10	208.87	1.23
2	D2-D3	85	2370	-	2370	0.586	400	0.75	3.328	1500	0.13	210.10	208.90	1.20	210.10	208.77	1.33
3	D3-D5	10	130	2550	2680	0.662	400	0.75	3.328	1500	0.02	210.10	208.77	1.33	210.10	208.75	1.35
4	D4-D5	70	860	-	860	0.210	400	0.75	3.328	1500	0.14	210.10	208.90	1.20	210.10	208.75	1.35
5	D5-D6	20	195	3530	3725	0.920	400	0.75	3.328	1500	0.04	210.10	208.75	1.38	210.10	208.71	1.39
6	D6-D8	35	620	-	620	0.153	400	0.75	3.328	1500	0.07	210.10	208.90	1.20	210.10	208.83	1.39
7	D7-D8	75	2620	-	2620	0.697	400	0.75	3.328	1500	0.15	210.10	208.90	1.20	210.10	208.75	1.39
8	D8-D9	5	50	7165	7215	1.783	400	0.75	3.328	1500	0.01	210.10	208.71	1.39	210.10	208.70	1.40

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times m^{2/3} \times s^{1/2}$ in F.P.S System

#	DS-RATE(S)	S	300	7215	7515	1.057	400	0.75	5.328	1.500	0.01	210.10	208.70	1.40	210.10	208.69	1.41
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PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times R^{2/3} \times S^{1/2}$ in F.P.S System

Rain Water Harvesting - 5

1	D1-D4	40	2180	-	2180	0.534	400	0.75	3.328	1500	0.08	210.10	208.90	1.20	210.10	208.82	1.28
2	D2-D4	60	4310	-	4310	1.065	400	0.75	3.328	1500	0.12	210.10	208.90	1.20	210.10	208.78 208.82	1.32
3	D3-D4	65	3970	-	3970	0.981	400	0.75	3.328	1500	0.13	210.10	208.90	1.20	210.10	208.77 208.82	1.28
4	D4-D5	5	100	10440	10540	2.504	400	0.75	3.328	1500	0.23	210.10	208.77	1.33	210.10	208.54	1.58
5	D5-RWH-6	15	80	10440	10520	2.599	400	0.75	3.328	1500	0.03	210.10	208.54	1.56	210.10	208.51	1.59

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times m^{2/3} \times s^{1/2}$ in F.P.S System

Rain Water Harvesting - 7

1	D1-D3	30	630	-	800	0.205	400	0.75	3.328	1500	0.06	210.10	208.90	1.20	210.10	208.84	1.26
2	D2-D3	65	3250	-	3250	0.803	400	0.75	3.328	1500	0.13	210.10	208.90	1.20	210.10	208.84 208.77	1.33
3	D3-RWH-7	10	90	4080	4170	1.030	400	0.75	3.328	1500	0.02	210.10	208.77	1.33	210.10	208.75	1.35

Rain Water Harvesting - 8

1	D1-D3	30	1026	-	1026	0.253	400	0.75	3.328	1500	0.06	210.10	208.90	1.20	210.10	208.84	1.26
2	D2-D3	15	490	-	490	0.121	400	0.75	3.328	1500	0.03	210.10	208.80	1.20	210.10	208.84 208.87	1.26
3	D3-D4	33	1420	1515	2935	0.725	400	0.75	3.328	1500	0.07	210.10	208.84	1.26	210.10	208.77	1.33
4	D4 - RWH-8	15	580	2935	3015	0.809	400	0.75	3.328	1500	0.03	210.10	208.77	1.33	210.10	208.74	1.36

Rain Water Harvesting - 9

1	D1-D2	15	435	-	435	0.107	400	0.75	3.328	1500	0.03	210.10	208.90	1.20	210.10	208.87	1.23
2	D2-D3	50	1420	435	1855	0.438	400	0.75	3.328	1500	0.10	210.10	208.87	1.23	210.10	208.77	1.33
3	D3 - RWH-9	10	90	1855	1945	0.481	400	0.75	3.328	1500	0.02	210.10	208.77	1.33	210.10	208.75	1.35

Rain Water Harvesting - 10

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = \frac{1.486}{n} \times m^{2/3} \times s^{1/2}$ in F.P.S System

1	D1-D2	50	1350	-	1380	0.343	400	0.75	3.328	1.500	0.12	210.10	208.90	1.20	210.10	208.78	1.32
2	D2 - RWH-10	20	350	1395	1740	0.430	400	0.75	3.328	1.500	0.04	210.10	208.78	1.32	210.10	208.74	1.36

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36
SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

SUB WORK NO. - IV				Road Work	
Sl No	DESCRIPTION	Qty	Rate		AMOUNT (In Lacs)
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acres)				15.82 la
	Area = 10.55 Acre	10.550	@ 150000	Rs.	15.82
2	Provision for Granular sub base 100mm 150mm thick stone aggregate, 50mm thick B.M., 20mm thick pre mix carpet with seal coat	8525	@ 12000	Rs.	102.30 la
3	Provision of Paved path of C.C. 1:2:4	2800	@ 6000	Rs.	16.80
4	Provision for Kerbs & channels of CC 1:2:4	2800	@ 6000	Rs.	16.80
5	Provision for making approach to each block for C.C. pavements	1	@ 50000	Rs.	0.50
6	Provision of guide maps & other unforeseen & indicator boards (L.S.)	1	@ 50000	Rs.	0.50
7	Provision for traffic light arrangement - L.S.	1	@ 50000	Rs.	0.50
8	Provision of carriage of material and unforeseen items - L.S.	1	@ 100000	Rs.	1.00
TOTAL				Rs.	130.46
Add 3% contingencies				Rs.	3.91
TOTAL				Rs.	134.36
Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	65.84
TOTAL				Rs.	200.20

161.22 la
4.84 la
166.06 la
81.36 la

Rs. 247.42 la

C.O to final abstract of cost

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

Road Work					
S. No.	Name of Road	Length of Road (in Mtrs.)	Width Of the Road (Mtrs.)	CC Width (Mtrs.)	Area in Sqm.
	A	B	C	C	B x C
1	Road (A)	45	9 M	6.55	270.00 247.50
2	Road (B)	50	9 M	6.55	300.00 275
3	Road (C)	50	9 M	6.55	300.00 275
4	Road (D)	70	9 M	6.55	420.00 385
5	Road (E)	210	24 M	14.14	3780.00 2440
6	Road (F)	50	9 M	6.55	300.00 275
7	Road (G)	50	9 M	6.55	300.00 275
8	Road (H)	180	9 M	6.55	1080.00 940
9	Road (I)	50	9 M	6.55	300.00 275
10	Road (J)	70	9 M	6.55	420.00 385
11	Road (K)	70	9 M	6.55	420.00 385
12	Road (L)	70	9 M	6.55	420.00 385
13	Road (M)	50	9 M	6.55	300.00 275
14	Road (N)	150	7 M	5.0	750.00
Total		1165			9360.00 8117.50
Area		1165			9360.00
Add 10 % for curves					936.00 405.87
Total					10,296.00 8583.37
Total					10,296.00
Say					10,300.00 8525.50
Total Length of road		1165			
Add 10% curves		116.5			582.5
Total Length		1282			1123.25
Say		1400	Mtrs.		
CC foot paths on both side 9 mtr & 24 mtr road					1225
CC foot paths on both side = 2m x length of road		=	2800		=2800 sqm

PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36 SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

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**PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36
SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT. LTD.**

Sub Work No-VI Plantation & Road side trees

Sl No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)
1	Development of Lawn Area :- a) Trenching the ordinary soil upto depth of 60 cm. including removal and packing of serviceable material and disposing at a lead of 50 M. and making up the trenched area to proper level by filling with earth mixed with manure before and after flooding trench with water including cost of imported 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 in rows 7.50 cm. in either direction including for hedges and grill and barred wire fencing around park and green belts (As per HUDA norms) <i>Area = 0.792 Acre</i>	<i>10550</i>	<i>@ 76000</i>	<i>Rs. 7.91</i>
2	Providing & Planting of trees with tree guards on roads at 12 m intervals Total Road Length (M.) Trees @ 12 M. c/c Say (2 x 107) = 214 Or Say	<i>1225</i> <i>1400</i> <i>102</i> <i>117</i> <i>240</i>		
	Cost of One Tree :- Excavation (Rs.) <i>60/-</i> Manure (Rs.) <i>60/-</i> Tree Plants (Rs.) <i>60/-</i> Tree Guards (Rs.) <i>600/-</i> Total Cost (each) <i>1300</i> Cost of Total trees	<i>240</i>	<i>@ 850</i>	<i>Rs. 2.04</i>
	TOTAL	<i>240</i>	<i>@ 1300</i>	<i>Rs. 0.31</i>
	Add 3% contingencies <i>say PE. Charges</i>			<i>Rs. 0.01</i>
	TOTAL			<i>Rs. 10.25</i>
	Add 49% Department charges, price escalation, other for unforeseen charges.			<i>Rs. 5.02</i>
	TOTAL			<i>Rs. 15.27</i>

C.O. to final abstract of cost



हरियाणा शहरी विकास प्राधिकरण
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Email : cencrhsyp@gmail.com
Address: C-3, HSVP, HQ Sector-6
Panchkula

C.E.I-No. 108109
Dated: 12/07/2020
Annexure-A

SUB:- Approval of Service Plan/Estimates for Affordable Residential Plotted Colony (Under Deen Dayal Jan Awas Yojna) measuring 10.55 acres area in Sector-36 Sohna, Distt. Gurugram being developed by M/S. Signature Global Homes Pvt.Ltd. (Licence No.40 of 2019 dated 1.3.2019 & No. 130 of 2019 dated 7.12.2019)

Technical note and comments:-

1. All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
2. The correctness of the levels will be the sole, responsibility of the colonizer for the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution.
3. The material to be used shall the same specifications as are being adopted by HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.
4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HSVP. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HSVP from time to time.
5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ HSVP. All link connections with the State Government/ HSVP system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision according to EDC deposited.
6. Structural design & drawings of all the structures, such as pump chamber, boosting chamber, RCC OHSR underground tanks quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber for Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications; colonizer himself will be responsible for structural stability of all structures.

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Tthkz



हरियाणा शहरी विकास प्राधिकरण

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Address: C-3, HSVP, HQ Sector-6
Panchkula

C.E.-I No: 108/09

Dated: 17/07/2020

7. Potability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested.
8. Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.
9. A minimum 100 i/d C.I/D.I, 200mm i/d SW and 400mm id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.
10. Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health Engineering Deptt.or HSVP.
11. The X-section, width of roads, will be followed as approved by the Chief Town Planner, Haryana, Chandigarh. The kerbs and channels will also be provided as per approved X-section and specifications.
12. The specifications for various roads will be followed as per IRC/MORTH specifications.
13. The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.
14. This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.


For Superintending Engineer (HQ),
Chief Engineer-I, HSVP,
Panchkula.

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PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA IN SECTOR - 36
SOHNA, OVER AN AREA OF (10.55 ACRES) BEING DEVELOPED BY SIGNATURE GLOBAL HOMES PVT.LTD.

SUB WORK NO. VII:

MTC. CHARGES AND
RESURFACING OF ROADS.

SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for maintenance charges for water supply, Area = 10.55 Acre	10.550	@	300000 7.50 KL	Rs	31.65 79.12
2	Provision for resurfacing of roads after first five	40.300	@	400	Rs	16.12
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sgm)	8525				51.15
		40.300	@	750	Rs	30.05
	TOTAL				Rs.	108.90
	Add 3% contingencies				Rs.	3.27
	TOTAL				Rs.	112.17
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	54.96
	TOTAL				Rs.	167.13

67.94
194.21
5.82
200.03
98.02
298.05 1m

C.O to final abstracting cost