

WATER IS PRECIOUS

10.25 ACRES AFFORDABLE RESIDENTIAL
PLOTTED COLONY SECTOR 35,
BAHADURGARH, DISTT. JHAJJAR

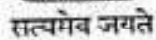
(UDDJAY-2016)

(license no 71 of 2022 DATED 27.05.2022)

SANKALP
INFRA LINE LLP

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM
WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN
RESPECT OF 10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED
COLONY IN SECTOR 35, BAHADURGARH, DISTT. JHAJJAR. (UDDJAY-2016)

CONSERVE WATER



Government of National Capital Territory of Delhi

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at www.stamptamp.com/ or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority

AFFIDAVIT

I, Samunder Singh Son of late Shri Zile Singh Designated Partner of SANKALP INFRA LINE LLP, a company incorporated under the Companies Act, 1956 and having its registered office at DEEP CHAMBERS, KHASRA NOS. 72/11/2, MUNDKA, WEST DELHI, DELHI-41, do hereby solemnly affirm and declare as under:-

In regard to the subject cited matter and letter under reference, I have been directed to request you to give the clarification on the following points which are as under:

1. You are requested to provide an affidavit stating the undertaking regarding provision of Water supply, sewerage, SWD & Roads that the colonizer bear 100% responsibility for the quality/specification of the work/material utilized in the work and shall have to replace/repair any work/item, if required as decided by HVP at later stage.

This for your kind information and further necessary action.

VERIFICATION:-

Verified at Delhi on this day of October, 3, 2022, that the contents of this affidavit are true and correct to the best of my knowledge and belief.

DEPONENT

ATTESTED
NOTARY PUBLIC

03 OCT 2022

Directorate of Town & Country Planning, Haryana

Nagar Yojana Bhawan, Plot No. 3, Sector-18A, Madhya Marg, Chandigarh, Phone: 0172-2549349
Web site: tchpharyana.gov.in - e-mail: tchpharyana7@gmail.com

LC-V
(See Rule 12)

License No. 71 of 2022

This license has been granted under the Haryana Development and Regulation of Urban Areas Act 1975 & the Rules 1976 made thereunder to Sankalp Infrahline LLP, Deep Chamber, Khasra No. 72//11/2, Mundla, West Delhi- 41 for setting up of affordable residential plotted colony under DDJAY-2016 over an area measuring 10.25 acres in the revenue estate of village Khedka Musalman, Sector - 35, Bahadurgarh District Jhajjar.

1. The particulars of the land, wherein the aforesaid affordable plotted colony is to be set up, are given in the schedule of land annexed hereto and duly signed by the Director, Town & Country Planning, Haryana.
2. The Licence is granted subject to the following conditions:-
 - a) That the affordable residential plotted colony under Deen Dayal Jan Awas Yojna will be laid out in confirmation to the approved layout/building plan and development works will be executed in accordance to the designs and specifications shown in the approved plans.
 - b) That the conditions of the agreements already executed are duly fulfilled and the provisions of Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made thereunder are duly complied with.
 - c) That licensee 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)(ii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
 - d) That licensee shall integrate the services with Haryana Shehri Vikas Pradhikaran services as and when made available.
 - e) 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.
 - f) That licensee will transfer 10% area of the licensed colony free of cost to the Government for provision of community facilities. This will give flexibility to the Director to work out 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.
 - g) That applicant understand that the development/construction cost of 24 m/18 m major internal roads is not included in the IDC rates and they shall pay the



proportionate cost for acquisition of land, if any, alongwith the construction cost of 24 m/18 m wide major internal roads as and when finalized and demanded by the Department.

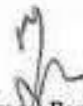
- h) That licensee shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.
- i) That licensee shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available and the same is made functional from External Infrastructure to be laid by Haryana Urban Development Authority or any other execution agency.
- j) That licensee shall obtain clearance from competent authority, if required under Punjab Land Preservation Land Act, 1900 and any other clearance required under any other law.
- k) That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- l) 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.
- m) That licensee shall use only LED fitting for internal lighting as well as campus lighting.
- n) That licensee 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.
- o) 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 not 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.
- p) That licensee shall keep pace of development atleast in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- q) That licensee 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.
- r) That licensee 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.

- s) That no clubbing of residential plots for approval of integrated zoning plan of two adjoining plots under same ownership shall be permitted.
- t) That licensee 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.
- u) That licensee 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 per centum of the amount received from the plot holders for meeting the cost of Internal Development Works in the colony.
- v) That no further sale has taken place after submitting application for grant of license.
- w) That the licensee shall permit the Director or any other officer authorized by him to inspect the execution of the layout and the development in the works in the colony and to carry out all directions issued by him for ensuring due compliance of the execution of the layout and development works in accordance with the license granted.
- x) That licensee shall not give any advertisement for sale of plots/commercial area before the approval of layout plan.
- y) That the licensee shall follow the provisions of the Real Estate (Regulations and Development) Act, 2016 and Rules framed thereunder shall be followed by the applicant in letter and spirit.
- z) That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of applied land.
- aa) That the revenue rasta passing through the site, if any shall not be encroached upon and shall be kept free from all hindrances for easy movement of general public.
- bb) That licensee shall abide by the terms and conditions of policy dated 08.02.2016(DD)/AY) and other direction given by the Director time to time to execute the project.
- cc) That the owner/developer shall integrate the bank account in which 70 percent allottee receipts are credited under Section-4(2)(I)(D) of the Real Estate Regulation and Development Act, 2016 with the online application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipt from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State treasury.
- dd) That such 10% of the total receipt from each payment made by the allottee, which is received by the Department shall get automatically credited, on the date of receipt in the Government treasury against EDC dues.
- ee) That such 10% deduction shall continue to operate till the total EDC dues get recovered from the owner/developer.
- ff) The implementation of such mechanism shall, however, have no bearing on EDC installment schedule conveyed to the owner/developer. The owner/developer shall continue to supplement such automatic EDC deductions with payments from its

own funds to ensure that by the EDC installments that are due for payment that paid as per the prescribed schedule.

gg) That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Acts.

3. That the 50% saleable area, earmarked in the approved layout plan and frozen as per clause 5(i) of DDJAY policy shall be allowed to sell only after completion of all Internal Development Works in the colony.
4. That licensee company will abide by with the Act/ Rules and the policies notified by the Department for development of affordable plotted colony and other instructions issued by the Director under section 9A of the Haryana Development and Regulations of Urban Areas Act, 1975.
5. The licence is valid up to 26-05-2027


(K. Makrand Pandurang, IAS)
Director,
Town & Country Planning
Haryana, Chandigarh

Dated: 27-05-2022

Place: Chandigarh.

Enst. No. LC-4618-JE (MK)-2022/ 15113

Dated: 31-05-2022

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

1. Sankalp InfraLink LLP, Deep Chamber, Khast No. 72/11/2, Mundka, West Delhi-41, along with a copy of agreement, LC-IV B & Bilateral Agreement.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSPV, Panchkula.
4. Managing Director, HVPN, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
5. Joint Director, Environment Haryana-cum-Secretary, SEAC, Paryavaran Bhawan, Sector-2, Panchkula.
6. Addl. Director Urban Estates, Haryana, Panchkula.
7. Administrator, HSPV, Rohtak.
8. Superintending Engineer, HSPV, Panchkula along with a copy of agreement.
9. Land Acquisition Officer, Rohtak.
10. Senior Town Planner, Rohtak.
11. District Revenue Officer, Hajar.
12. District Town Planner, Hajar along with a copy of agreement.
13. Chief Accounts Officer of this Directorate.
14. Project Manager (T) of this Directorate with the request to host the orders on Departmental website for information of general public/developers.

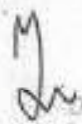

(Babita Gupta)
District Town Planner (HQ)
For Director, Town & Country Planning
Haryana Chandigarh

To be read with License No. 71 dated 27-5 of 2022

Detail of land owned by Sankalp Infraline LLP

Village	Rect. No.	Killa No.	Area K-M
Khedka	1	16/2	0-13
Musalman		23/2	0-6
		24/2	3-16
		25/2	7-10
	8	1/1	6-12
		20/1	0-9
		20/2	2-0
		21	2-12
	9	4	8-0
		5	8-0
		6	8-0
		7/1	6-18
		14/2	3-2
		15	7-11
		16/1	1-7
		16/2/1	5-19
		17/1/1	0-4
		17/2/1	0-3
		25/2	4-6
	12	5/2	0-18
	13	1/2	2-17
		10/2	0-17
		Total	82-00

Or 10.25 acres


 Director,
 Town & Country Planning
 Hariana
Jessie Brown

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PROJECT REPORT/ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY IN SECTOR 35 BAHADURGARH DISTT. JHAJJAR.

REPORT

The Haryana Government has prepared a master plan for development of Residential/Industrial / Commercial urban estate BAHADURGARH. M/S SANKALP INFRALINE LLP has decided to develop a part of the area in this master plan and has named this part as 10.25 Acres Affordable Residential plotted colony. This scheme is located in sector 35 of Haryana SAHIRI VIKAS PRADHIKARAN BAHADURGARH. License has already been granted under by DTCP (license no 71 of 2022 DATED 27.05.2022). The brief details of the colony are as under:-

WATER SUPPLY

1 Source

The source of water supply in this area is a canal at present. However for the time being the water will be supplied by drilling of a tube well. The water is available at reasonable depth. The average yield of tubewell with 40-45 ft. strainers will be about 25000 litre per hour at a reasonable depth. 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 SAHIRI VIKAS PRADHIKARAN BAHADURGARH

2 Design

The scheme has been designed for approved population of 2457 persons. The rate of water supply per head per day has been taken as 155 litres (135 + 15 %) as per HSVP 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 25,000 litre per hour. It is also proposed to equip required Nos pumping sets with stand by diesel engines / gen set engines for operation during failure of electricity.

4 Under Ground Storage

The Provision has been made for 300 KL capacity storage which caters to the need of domestic as well as fire fighting (100 KL). The tank will have one compartment for fire fighting and one compartment for domestic water supply. The water enters the fire compartment first and overflow the domestic water supply compartment to keep the water supply fresh.

5 Boosting Station

The boosting station 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 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 G.F./S and 4 stories construction. Minimum pipe dia for distribution is kept as 100 mm dia.

7 Rising mains

Rising mains from HSVP 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 ^{80%} 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

(Pick the date)

sewers have been designed on 0.76 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

The storm water drainage is being designed to carry 6.25mm rainfall per hour. The 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 & 24m wide. The following specifications have been adopted which are reproduced below.

- (i) ~~300~~²⁰⁰ mm GSB
- (ii) 250 mm ~~stone aggregate~~^{W.M.M}
- (iii) 50 mm thick ~~DM~~^{DBM}
- (iv) ~~25~~³⁰ mm BC ~~30mm wide BC~~

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 HSVP 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 HSVP & Haryana Government.

14 Rates

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 ~~925.20~~^{968.95} Lacs.

94.53

The cost per gross acre for the phase works out to be Rs ~~90.26~~ 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.

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH
DESIGN CALCULATIONS

Daily Requirement

1. **Total No. of Plots** = 182
Population per plot (@ 13.5 persons) = 2457 persons
Therefore population = 13.5×182
Water requirement for plots @ 155.00 litres/head/day = 380835.00 litres
 2457×155.00 or
380.83 KL
2. **Add Requirement for Institutions etc.**
 - a. No of commercials = 1 No
Daily water requirement @ 32000 litre/Acre
Area of commercial = 0.405 Acre
Therefore daily water requirement = 0.405×32000 = 12960.00 litres
= 12.96 KL
 - b. Community place
Area of community place = 1.025 acres
Daily water requirement @ 25000 litre/acre
= 1.025×25000 = 25625.00 litres
= 25.62 KL
- Total** = 38.58 KL
3. **Area under Parks**
Green Parks = 0.7690 acres
Therefore daily water requirement @ 25000 litre/Acre
= 0.7690×25000 = 19225.0 Litres
= 19.22 KL

4. Area under roads out of 10.25 acres

Therefore daily water requirement for sweeping of roads

say

Total daily requirement

a. For domestic use (1+2) = 380.83+38.58

b. Under parks & roads (3+4) = 19.22+10.00

say

Assuming requirement for flushing as 1/3 of total domestic demand and therefore daily requirement for flushing

Daily requirement of potable drinking water supply
= 419.41 - 139.80

1.73
= 1.84 acres

86.50
= 9050.00 litres
 8.65
= 9.05 KL
= 10.00 KL

= 419.41 KL

= 29.22 KL

= 30.00 KL

= 1/3 X 419.41

= 139.80 KL

= 279.61 KL

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

TUBEWELL

Assuming working hours of tube well	= 16
Assuming discharge/hour of each tube well	= 25000 lit/hour
Total domestic demand (DRINKING)	= 279.61 KL
No. of tubewells required for drinking water supply	= $\frac{279.61}{25 \times 16} = 0.67 \approx 0.70$
No. of tube wells Required for Total demand	= $\frac{(419.41+30.00)}{25 \times 16} = 1.05 \approx 1.12$
Add 10% stand by	= 0.11
Total no of tubewells required = 1.05 + 0.11	= 1.16 nos. 1.23

So it is proposed to provide 1 Nos of tube at present and provision of 1 no. tube well has been taken in estimate. More tube wells will be installed when required. Moreover the requirement of flushing water supply is to be met from treated water from S.T.P. and ultimately water is to be supplied by HSPV

Pumping machinery for tube wells

Gross working load	= 45.00 m
Average fall in is S.L.	= 5.00 m
Depression head	= 6.00 m
Friction Loss in pipe and fittings	= 4.00m
Total	= 60.00 m
B.H.P. = $\frac{25000 \times 60}{60 \times 60 \times 75 \times 0.6}$	With 60% efficiency
	= 9.26 B.H.P.
Say	= 10.00

Boosting Machinery (Drinking water)

Daily requirement for domestic use (Drinking) = 279.61 KLD

Assuming 8 hours running 1 pump (with one stand by) discharge/hour. $= \frac{279.61}{8} = 34.95 \text{ KL/HR}$
 $= 582.50 \text{ ltr/m}$

say = 600.00 ltr/m

Head of Pump

- | | | |
|------|----------------------------------|--------|
| i) | Suction Lift | 4.00m |
| ii) | Friction Loss in main & specials | 4.00m |
| iii) | Clear Head | 27.00m |
| | | <hr/> |
| | | 35.00m |
| | say | 40.00m |

B.H.P. of Motor $\frac{600.00 \times 40}{60 \times 75 \times 0.6} = 8.88$
Say 10.00 H.P. ✓

It is proposed to provide 2 nos. pumping sets of one working and one stand by at each capable of delivering 600 lpm of water at a total head of 40 m, connected with 10 BHP electric motor.

Underground Storage Tank (Drinking water supply)

Daily requirement for domestic use including institutional demand = 279.61 KL

Capacity of underground tank taking storage demand $= 279.61 \times 0.60 = 167.76 \text{ KL}$

Say = 200.00 KL ✓

FIRE DEMAND:-

Total population	= 2457.00 persons
Therefore storage required for firefighting	= $100 \times \sqrt{2.5} \times 1/3$
	= 52.67 kl
Say	= 100.00 kl

However it is proposed to construct an U.G.S.T. of capacity of 200 KL for drinking water supply and 100 KL capacity for fire fighting purposes in two compartments.

BOOSTING MACHINERY(Flushing water supply)

Daily requirement for domestic use (flushing)	= 139.80 KL
Add for horticulture and roads	= 30.00 KL
TOTAL	= 169.80 KL
Assuming 8 hours running 1 pumps (with one stand by)	
Discharge/hour	= $\frac{169.80}{8}$ = 21.22 KL
Discharge/minute	= 353.75 liter/min
say	= 400.00 liter/min

HEAD OF PUMP

i) Suction lift	= 4.00 M
ii) Friction Loss in main & specials	= 4.00 M
iii) Clear head	= 27.00 M
TOTAL	= 35.00 M
SAY	= 40.00 M
B.H.P. of Motor	= $\frac{400 \times 40.00}{60 \times 75 \times 0.6}$
	= 5.92
	Say 6.00

UNDERGROUND STORAGE TANK(Flushing water supply)

Total Daily requirement for flushing including horticulture = 169.80

Capacity of underground tank taking 8 hours storage = 101.88 KL

= (25 + 33=58 %) say 60 % of daily demand

= 169.80 x 0.6

110.00

= ~~125.00~~ KL

SAY

**a) DIESEL GENERATING SET
(BOOSTING)DRINKING WATER**

Pumping sets 1 no. 10.00 H.P. each = 10.00H.P.

Lightening etc. = 2.00H.P.

= 12.00 H.P.

Capacity of Diesel generating set

= $12 \times 0.746 \times 1.5$

= 13.42KVA

Add 10 % extra

= 1.34 KVA

TOTAL

= 14.76 KVA

SAY

= 15.00 KVA

b) DIESEL GENERATING SETBOOSTING STATION (FLUSHING WATER)

H.P. of pumping set = 6.00 KVA

Capacity $6 \times 0.746 \times 1.50$ = 6.71 KVA

Add 10 % extra = 0.67 KVA

= 7.38 KVA

SAY

= 7.50 KVA

c) Capacity of diesel generating set for tubewell = $10 \times 0.746 \times 1.5 \times 1.10$ = 12.30 KVA

say

= 15.00 KVA

d) It is proposed to provide a Diesel generating set of capacity 15 KVA for tubewell.

OVER HEAD SERVICE RESERVIOR

It is ^{not} proposed to provide O.H.S.R. as the capacity of U.G.S.T. has been increased from 33% to 60%

Capacity of S.T.P.

Capacity of S.T.P. = ^{0.80}~~0.75~~ X 419.41
Add 5% marginal factor →
say

$$\begin{array}{r} 335.53 \\ = 314.56 \text{ KLD} \\ \underline{16.78 \text{ KLD}} \\ = 0.35 \text{ MLD} \\ 352.31 \text{ KLD} \end{array}$$

Say 360 KL

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

FINAL ABSTRACT OF COST

		Amount (Rs. In Laacs)
Sub Work No. I	Water Supply	Rs. 185.60 ✓ 187.04
Sub Work No. II	Sewerage	Rs. 136.00 ✓ 132.86
Sub Work No. III	Storm Water Drainage	Rs. 74.90 ✓ 77.12
Sub Work No. IV	Road and Footpath	Rs. 273.00 ✓ 239.77
Sub Work No. V	Street Lighting	Rs. 39.30 ✓ 39.32
Sub Work No. VI	Horticulture Work	Rs. 6.20 ✓ 7.70
Sub Work No. VII	Maintenance Charges for 10 years i/c resurfacing of roads after 1 st 5 years and 2 nd 5 years	Rs. 270.20 ✓ 285.14
	Total	Rs. 925.20 ✓ 968.95

Director General
Town & Country Planning
& Haryana, Chandigarh

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

Executive Engineer
HSVP Division
Bahadurgarh

Additional Chief Engineer (HQ)
for Chief Engineer-I, HSVP
Panchkula

Superintending Engineer,
HSVP Circle, Gurugram

(Pick the date)

FINAL ABSTRACT OF COST (WATER SUPPLY)

Amount (Rs in Laes)

Sub Head No. 1 Head Works	82.50 71.28
Sub Head No. 2 Pumping Machinery	45.30 42.21
Sub Head No. 3 Distribution System (Drinking)	30.90 41.99
Sub Head No. 4 Distribution System (Flushing) and Irrigation	26.90 31.56
Total	185.60 187.04 Lakh

Sub Work-I

Sub Head No. 1

Water Supply

Head Works Rs in (Lacs.)

1. Boring and installing 200 i/d tubewell with reserve/ direct rotary rig complete with pipe strainer to a depth of about 250m complete in all respects.

1 Nos. @ 15.00 Lacs each

15.00

2. Constructing pump chambers as per standar design of PWD PH/HSVP of size ~~4.90x4.25 m~~

1 Nos. @ ~~4.00~~ Lacs each

2.00
~~4.00~~

3. Construction of boundary wall around the Tubewell site and Water Works I No. @ Rs ~~4.00~~ lac L.S.

2.00
~~4.00~~

4. Provision of footpath hedges and lawns at tubewell 1 Nos.

1.00
~~0.75~~

5. Construction of boosting chambers of suitable size along with underground tank of capacity 425 KL pumping machinery and generating set etc. complete in all respects.

Details of boosting station

- i) Construction of boosting chamber ~~5.00~~ L.S.
- ii) U.G. tank 300 KL capacity incl 100 KL For fire fighting in two compartments @ RS 4000/KL ~~4500~~ KL.
- iii) U.G. tank flushing capacity 125 kl @ RS 4000/KL ~~500~~ 110

5.00
13.50
~~12.00~~

4.95
~~5.00~~

6. Provision for staff quarters for Maintenance

L.S.

3.00

- i) 1 No 350 sq ft @ Rs 6.00 lac

~~6.00~~

[Pick the date]

7. Prov. for carriage of material (L.S.)

P.E. & contingency charges @ 3%

Department escalation unforeseen and
administrator charges @ 49%

Total
Say

~~1.40~~
~~-2.00~~

~~53.75~~ 47.45

~~+61~~ 1.39

~~55.36~~ 47.84

~~27.12~~ 23.44

~~82.48~~ 71.28 *latch.*

~~82.50~~

Sub Work I

Sub Head No. 2

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

1. Providing and installing electricity driven electro or submersible pumping sets capable of delivering about 25.00KL water per hour against a total head of 60 M complete with motor and other accessories (10 B.H.P.)
1 Nos. @ Rs 2.00 lac each 2.00 ✓
2. Provision for diesel engine genset or solar power bank stand by arrangement for tubewells (15 KVA) (L.S.) 3.50
~~2.50~~
3. Provision for cheap pressure type chlorination plant complete
1 Nos. @ Rs 1,00,000/- 1.00 ✓
4. Provision for making foundations and erection of pumping machinery (L.S.) 2.00 ✓
5. Provision for pipes, valves, and specials inside the pump chamber 2.00
~~1.50~~
6. Provision for electric services connection including electric fittings for tubewells chambers complete including transformers L.S. 2.50 ✓
7. a) Providing and installing centrifugal boosting pumping sets, capable of delivering water at 40 M head complete in all respects (2X10+2x6=32H.P.) domestic & flushing / irrigation
e(2x2+1.5x2) 7.00
2 Sets @ Rs 3.00 lac each ~~6.00~~
b) providing and installing centrifugal boosting pumping set complete in all respects 2 Sets @ Rs 2.50 lac each ~~5.00~~

[Pick the date]

8. Providing Gen set 15 KVA @ Rs 3.00 ^{3.50} lac L.S.	3.00 ^{3.50}	
9. Providing Gen set 7.5 KVA for flushing water supply @ Rs 2.00 lac L.S.	2.00	✓
10. Provision for carriage for materials and other unforeseen items L.S.	2.00	✓
Total	29.50 ^{27.50}	
P.E. & contingency charges @ 3%	0.88 ^{0.83}	
	30.38 ^{28.33}	
Department escalation unforeseen and administrator charges @ 49%	13.88 ^{14.89}	
Total	45.27 ^{42.21}	Lateh
say	45.30	

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

SUB WORK NO. 1

WATER SUPPLY

SUB HEAD NO. 3

DISTRIBUTION SYSTEM/ISING MAIN

1. Providing, laying, jointing and testing C.I./D.I. K9 Pipes including cost of excavation complete as per specifications.

Amount (Rs in lacs)

810 1460/-
100 mm dia i/d 820 mtrs @ Rs. 1250/- mtr
150 2040/-
200 mm dia i/d 300 mtrs @ Rs. 1575/- mtr

11.83
10.25
6.12
4.72

2. Providing and fixing sluice valve including cost brick masonry chambers complete in all respect.

4
100 mm dia i/d 2 Nos. @ Rs. 12000/- each
4
150 mm dia i/d 2 Nos. @ Rs. 15000/- each

0.48
0.24
0.66
0.30

3. Providing and fixing air valves and scour valves or scour taps including cost of brick masonry chamber

6Nos. @ Rs. 10,000/- each ✓

0.60 ✓

4. Providing and fixing fire hydrants complete with masonry chambers

10 15000/-
4 Nos. @ Rs. 10,000/- each

1.50
0.40

5. Providing and fixing indicator plates for sluice valve, air valve etc.

24 2000/-
14 Nos. @ Rs. 1000/- each

0.48
0.14

6. Provision for rising main D.N. 100mm from main HSVP water line to U.G.S.T. 100 mtrs @ Rs. 1250/- mtr

1460/-

1.46
1.25

7. Provision for D.N. 100mm D.I. rising main from tube well to U.G.S.T. 20 mtrs @ Rs. 1250/- mtr

1460/-

0.29
0.25

8. Providing for carriage of material L.S.

2.00 ✓

[Pick the date]

9. Provision for connection with HSRP] 2.40
 main w/s line C.S

~~total~~ ~~20.15~~
 27.36

Add P.E. & Contingency charges @ 3%

0.82
~~0.61~~

~~Total~~ ~~28.18~~
 20.76

Department escalation unforeseen and administrator
 charges @ 49%

13.81
 10.17

Total

~~41.99~~ Later

~~Say:~~

~~30.93~~
~~30.90~~

Sub Work No. 1

Sub Head No. 4

Water Supply
Flushing and Irrigation

Amount (Rs. in Lacs)

- 1 Providing, laying, jointing and testing DI pipe K-9 pipes including cost of excavation etc. complete in all respect.

a) 100mm dia C.I./D.I. ¹¹¹⁵~~1150~~m @ Rs. ^{16.28}~~14.37~~ ✓
¹⁴⁶⁴~~1250~~/- M (including provision of over flow pipe)

- 2 Providing and fixing sluice valves including cost of brick masonry chambers complete in all respect.

a) 100mm dia 4 nos. @ Rs. 12000/- each 0.48 ✓ ✓

3. Providing and fixing air valves and scour Valves or scour taps including cost of brick masonry chambers
6 nos. @ Rs. ~~10000~~/- each ✓

0.60 ✓

4. Providing and fixing indicating plates for sluice Valves, air valves etc.
10nos. @ Rs. ~~1000~~/- each ✓

~~0.10~~
0.20

5. Provision for irrigation garden hydrants L.S.

1.00

6. Provision for ^{cutting of roads} carriage of material and other unforeseen items.

^{2.40}
~~1.00~~

Total
Add 3% contingencies & P.E. charges

Total ^{20.56}
~~17.55~~
0.53
^{0.62}
~~18.08~~
^{21.18}

[Pick the date]

Add 49% departmental, escalation, adm. and
unforeseen charges.

10.3 P
-8.86

Total

26.94

~~say~~

~~26.90~~

31.56 Laleh

[[Pick the date]]

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

SUB WORK II

SEWERAGE SCHEME

Amount (Rs. in Lacs)

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.

i)	200 mm i/d	780	1700/-	13.26
	Av. Depth upto 2 M - 820 M @ Rs. 1350/- per M			11.07
ii)	200 mm i/d	4	280	2040/-
	Av. Depth upto 7 M - 140 M @ Rs. 1500/- per M			5.71
iii)	200 mm i/d			2.10
	Av. Depth upto 4 M - 140 M @ Rs. 1750/- per M			2.45

2. Provision for providing oblique junctions (L.S.) 2.00 ✓
3. Provision for providing and fixing vent shafts at suitable places as per PH requirement (L.S.) 2.00

- ~~4. Provision of temporary disposal arrangement till HSVP sewer laid - 10.00~~

5. Provision for construction of S.T.P. cap. 0.35 MLD 360 KLD 57.60

6. Provision of temporary timbering etc. 55.00

7. Provision for lighting & watchman & temp. diversion of traffic. 1.00

8. Provision for cutting of roads and carriage of materials etc. and other unforeseen charges (L.S.) 2.00

9. Provision for connection with HSVP main (L.S.) 1.00 ✓

10. Provision for connection with HSVP main (L.S.) 1.00 ✓

11. Provision for connection with HSVP main (L.S.) 1.00 ✓

12. Provision for connection with HSVP main (L.S.) 1.00 ✓

13. Provision for connection with HSVP main (L.S.) 1.00 ✓

14. Provision for connection with HSVP main (L.S.) 1.00 ✓

15. Provision for connection with HSVP main (L.S.) 1.00 ✓

16. Provision for connection with HSVP main (L.S.) 1.00 ✓

17. Provision for connection with HSVP main (L.S.) 1.00 ✓

18. Provision for connection with HSVP main (L.S.) 1.00 ✓

19. Provision for connection with HSVP main (L.S.) 1.00 ✓

20. Provision for connection with HSVP main (L.S.) 1.00 ✓

21. Provision for connection with HSVP main (L.S.) 1.00 ✓

22. Provision for connection with HSVP main (L.S.) 1.00 ✓

23. Provision for connection with HSVP main (L.S.) 1.00 ✓

24. Provision for connection with HSVP main (L.S.) 1.00 ✓

25. Provision for connection with HSVP main (L.S.) 1.00 ✓

26. Provision for connection with HSVP main (L.S.) 1.00 ✓

27. Provision for connection with HSVP main (L.S.) 1.00 ✓

28. Provision for connection with HSVP main (L.S.) 1.00 ✓

29. Provision for connection with HSVP main (L.S.) 1.00 ✓

30. Provision for connection with HSVP main (L.S.) 1.00 ✓

31. Provision for connection with HSVP main (L.S.) 1.00 ✓

32. Provision for connection with HSVP main (L.S.) 1.00 ✓

33. Provision for connection with HSVP main (L.S.) 1.00 ✓

34. Provision for connection with HSVP main (L.S.) 1.00 ✓

35. Provision for connection with HSVP main (L.S.) 1.00 ✓

36. Provision for connection with HSVP main (L.S.) 1.00 ✓

37. Provision for connection with HSVP main (L.S.) 1.00 ✓

38. Provision for connection with HSVP main (L.S.) 1.00 ✓

39. Provision for connection with HSVP main (L.S.) 1.00 ✓

40. Provision for connection with HSVP main (L.S.) 1.00 ✓

41. Provision for connection with HSVP main (L.S.) 1.00 ✓

42. Provision for connection with HSVP main (L.S.) 1.00 ✓

43. Provision for connection with HSVP main (L.S.) 1.00 ✓

44. Provision for connection with HSVP main (L.S.) 1.00 ✓

Total 88.62 86.57

P.E. & Contingency charges @ 3% 2.66 2.60

91.28 89.17

Department escalation unforeseen and administrator charges @ 49% 44.72 43.69

Total 136.00 132.86

Say: 136.00

[Pick the date]

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

SUB WORK – III

STORM WATER DRAINAGE

Amount (Rs. in Lacs)

- | | |
|--|------------------|
| 1. Providing, laying RCC pipes drain class NP – 3 with cement joint, manholes, excavation etc. complete in all respect | |
| 400 mm i/d | 1250 |
| Av. Depth upto 3.0 m – 1300 M @ Rs. 2500/- per M | 31.25 |
| | 32.50 |
| 2. Provision for road gullies with 300 mm dia pipe connection L.S. | 5.00 |
| | 3.00 |
| 3. Provision for lighting, watching and temporary diversion of traffic | 2.00 |
| | 1.50 |
| 4. Provision for cutting of roads and carriage of materials etc. and other unforeseen items L.S. | 2.00 |
| | 1.00 |
| 5. Provision for temporary disposal arrangement till HSVP services are provided. (L.S.) | 8.00 |
| | 1.00 |
| 6. Provision for connection with HSVP on master line | 1.00 |
| | 1.00 |
| 7. Provision for timbering and shoring | 1.00 |
| | 2.00 |

[Pick the date]

P.E. & contingency charges @ 3%

~~Total~~ ~~50.25~~
~~49.00~~
~~1.51~~
~~1.47~~

Department escalation unforeseen and administrator
charges @ 49%

Total ~~50.47~~
~~51.76~~
~~25.36~~
~~24.73~~

Total 74.90

~~say 74.90~~ 77.12 *2014*

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

Sub Work No. IV

Road Work

Item No.	Description of Item	Unit	Qty.	Rate (Rs)	Amount (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	1.21	50000	0.60
2	Earth Works			175000/-	
2.1	Provision for leveling + earth filling as per site condition approximate	Acre	10.25	150000	15.38 17.94
3	Provision for				
i.	300mm GSB				
ii.	250mm thick stone aggregate				
iii.	50mm thick B.M. DBM				
iv.	30mm thick BC				
		Sqm	6990 2350	1500/- 1200	104.85 88.20
4	Miscellaneous Items				
4.1	Construction of cement concrete Kerb and Channels as per specifications	Meter	2660 2540	600	15.96 15.24
4.2	Providing and fixing guide maps at selected locations (L.S.)				1.00 2.00
4.3	Provision for plot indicators (L.S.)				1.00 2.00
4.4	Provision for demarcating burgies (L.S.)				1.00 2.00

[Pick the date]

4.5	Construction of mettalled pavement in shopping area - 1639.48/2 acres = 820 sq.mt. (with 50mm thick paver block over 100mm C.C.)	Sq.m.	820	1200 1000	9.84 8.20
4.6	Provision for traffic arrangement				2.00
4.7	Provision for carriage of material (L.S.)				3.00 2.00
				Total	138.78 156.23
	Add 3% contingency & P.E. charges				4.16 4.69
	Total				142.94 160.92
	Department escalation unforeseen and administrator charges @ 49%				70.04 78.85
	Grand Total				212.98 239.77
	Say				213.00

SUB WORK – V

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

Street Lighting

	Amount (Rs. in lacs)
Providing street lighting on internal Roads as per standard specification in 10.25 acre area @ Rs. 2,50,000/- per acre	= 25.62
10.25 x 2,50,000/-	= 0.77
Add 3% contingencies & P.E. charges	= 26.39
Add Department escalation unforeseen and administrator charges @ 49%	= 12.93
Total	= 39.32
<u>Say</u>	<u>= 39.30</u>

C/O to final abstract of cost

10.25 ACRES AFFORDABLE RESIDENTIAL PLOTTED COLONY (UDDJAY-2016)

SECTOR -35, BAHADURGARH

SUB WORK – VI

COST ESTIMATE

HORTICULTURE

AMOUNT (RS. IN LACS)

1 Development of Lawn area

- a) Trenching the ordinary soil up to 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 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 rows 7.50 cm in either direction including for hedges and grill and barbed wire fencing around park and green belts (as per HSVP Norms) Area 0.769 Acres @ Rs. 1,50,000/- per acre

1.15

2 Planting of trees with tree guards on Roads at 40' intervals

Total length of roads = $\frac{1270}{1330.00}$ M

No. of trees @ 12 m c/c = $\frac{1270}{1330} \times 2 / 12 = 224.66$ Nos.

SAY = $\frac{215}{225}$ Nos.

Cost of the tree

Excavation Rs. 60.00/-

Manure Rs. 90.00/-

Tree plants Rs. 150.00/-

Tree guards Rs. 1000.00/-

Total = $1300 \times 225 = 1800 \times 215$

TOTAL

Add 3 % contingencies and P.E charges

Add 49% departmental charges, price escalation, unforeseen and

	3.87
	2.92
5.02	4.07
0.15	0.12
5.17	4.19
2.53	2.05

(Pick the date)

Adm charges

TOTAL

SAY

7.70

~~6.24~~

~~6.20~~

[Pick the date]

SUB - WORK NO VII

MAINTENANCE CHARGES AND RESURFACING OF ROADS

Amount (Rs. in lacs)

2nd phase after 5 yrs of 1st phase

1. Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, streetlights, horticulture etc. complete including operation and establishment charges as per HSVP norms after completion and resurfacing of roads after 10 years.

$$10.25 \text{ acres @ Rs. } \frac{8.00}{100} \text{ lacs per acre} = 82.00$$

2. Provision for resurfacing of roads after 1st 5 years of maintenance i.e. ~~100mm~~ ^{80mm} thick B.M. and ~~25mm~~ ^{30mm} premix carpet with mechanical paver

$$6990 \text{ sqm @ Rs. } \frac{660}{7350} \text{ Per Sqm} = 46.13$$

3. Resurfacing of road after 10 years of maintenance by providing ~~25mm~~ ^{50mm} thick premix carpet with seal coat with mechanical paver

$$6990 \text{ sqm @ Rs. } \frac{825}{7350} \text{ Per Sqm} = 57.67$$

TOTAL

$$= 176.09 \quad 185.80$$

Add 3% PE and contingency charges

$$= 5.28 \quad 5.57$$

$$= 181.37 \quad 191.37$$

Add 49% Departmental charges, price escalation unforeseen and administrator charges.

$$= 88.87 \quad 93.77$$

Total

$$= 270.24 \quad 285.14$$

Say

$$= 270.20$$

[[Pick the date]]

HYDRAULIC DESIGN STATEMENT OF WATER SUPPLY (calculation of water load)

Providing Water Supply Scheme 10.25 Acres Affordable Residential plotted Colony Sector-35, Bahadurgarh

Sr. No.	Name of Pipe Line	No of plots As per plan	Population @13.5 persons per plot	Water requiremen t @ 105 l/head /day in KLD	Water requirement for non residential plots				Gross requirem ent in KLPD	Gross water requiremen t in gallons per day (Total)
					Plots area in acres	Type of building	Basis of water requirement	Total water requirement		
1	2	3	4	5	6	7	8	9	10	11
1	RA	-	-	-	-	-	-	-	-	-
2	AA1	4	54	5.67	-	-	-	-	5.67	1250
3	AB	2	27	2.83	-	-	-	-	2.83	620
4	BB1	17	229.5	24.10	-	-	-	-	24.10	5300
5	BC	40	540	56.70	-	-	-	-	56.70	12470
6	CC1	34	459	48.20	0.405	COMMERCIAL	32000ltr Acre	12.96x2/3 =8.64	56.84	12500
7	CD	15	202.5	21.26	-	-	-	-	21.26	4680
8	DD1	39	526.5	55.28	-	-	-	-	55.28	12160
9	DE	6	81	8.50	-	-	-	-	8.50	1870
10	EE1	18	243	25.51	1.025	COMMUNITY	25000ltr Acre	25.62x2/3 =17.08	42.59	9370

STORM WATER DRAINAGE SCHEME

LEGEND

- STORM LINE
- ROAD FORMATION LEVEL
- INVERT LEVEL

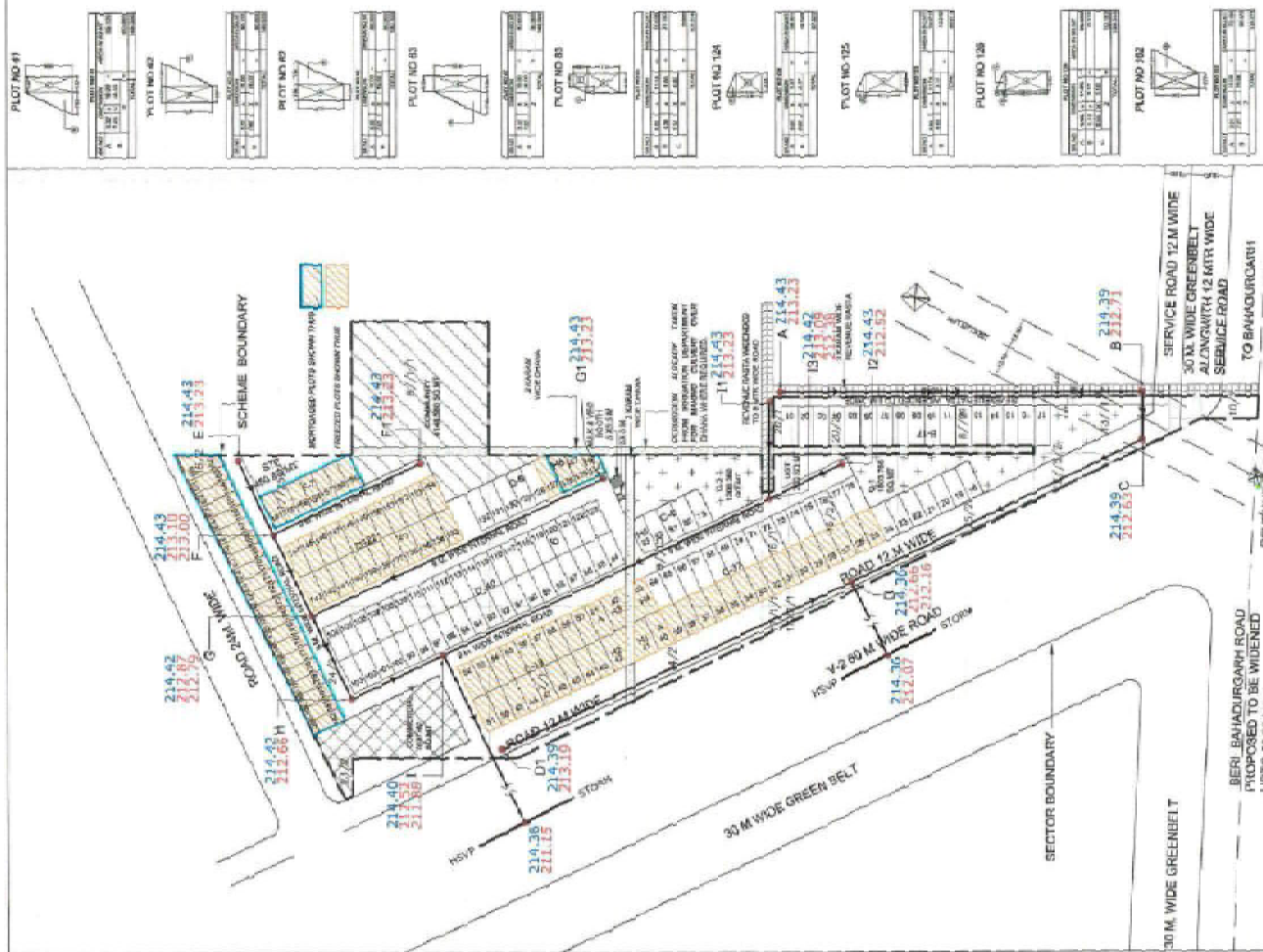
NOTE: SCALE OF 1:1000

No.	Name of Storm Line	Length in M	Area in Sq. M
1	1	100	10000
2	2	100	10000
3	3	100	10000
4	4	100	10000
5	5	100	10000
6	6	100	10000
7	7	100	10000
8	8	100	10000
9	9	100	10000
10	10	100	10000
11	11	100	10000
12	12	100	10000
13	13	100	10000
14	14	100	10000
15	15	100	10000
16	16	100	10000

NOTE: FOR SIZE, SLOPE AND LENGTH OF PIPE REFER TABLE AS ABOVE

NO.	NAME OF STORM LINE	LENGTH IN M	AREA IN SQ. M	PERCENTAGE OF AREA DRAINING TO THE STORM LINE
1	1	100	10000	100
2	2	100	10000	100
3	3	100	10000	100
4	4	100	10000	100
5	5	100	10000	100
6	6	100	10000	100
7	7	100	10000	100
8	8	100	10000	100
9	9	100	10000	100
10	10	100	10000	100
11	11	100	10000	100
12	12	100	10000	100
13	13	100	10000	100
14	14	100	10000	100
15	15	100	10000	100
16	16	100	10000	100

NOTE: FOR SIZE, SLOPE AND LENGTH OF PIPE REFER TABLE AS ABOVE



MS SANKALP INFRA LINE LLP

PROJECT CODE: 12103

ARCHITECT: AARORA ASSOCIATES

SCALE: 1:1000

DATE: 21.01.2022

SHEET NO. 1 of 1

REV: R9

PROJECT TITLE: AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DRAIN ON LAND MEASURING 1025 ACRES, SECTOR-35 JHAJHAR

DRAWING TITLE: LAYOUT PLAN FOR AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DRAIN

DRAWING NO. L2103-APC-LA-0001

SCALE: 1:1000

DATE: 21.01.2022

SHEET NO. 1 of 1

REV: R9

PROJECT TITLE: AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DRAIN ON LAND MEASURING 1025 ACRES, SECTOR-35 JHAJHAR

DRAWING TITLE: LAYOUT PLAN FOR AFFORDABLE RESIDENTIAL PLOTTED COLONY UNDER DRAIN

DRAWING NO. L2103-APC-LA-0001

SCALE: 1:1000

DATE: 21.01.2022

SHEET NO. 1 of 1

REV: R9

