

**12.50 ACRES RESIDENTIAL PLOTTED
COLONY (DDJAY) IN SECTOR 6 -SOHNA,
GURUGRAM**

**M/S LION INFRA
DEVELOPERS LLP.**

License has already been granted for by D.G.T.C.P bearing No. 9609 of 2023 to be read with License
No.188 of 2023

SERVICE ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM
WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE
IN RESPECT OF 12.50 ACRES RESIDENTIAL PLOTTED
COLONY (DDJAY) IN SECTOR 6 - SOHNA, GURUGRAM

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PROJECT REPORT/ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY) IN SECTOR 6-SOHNA, GURUGRAM, HARYANA

REPORT

The Haryana Government has prepared a master plan for development of Residential/Industrial/Commercial urban estate GURUGRAM. M/S M/S LION INFRA DEVELOPERS LLP. has decided to develop a part of the area in this master plan and has named this part as 12.50 Acres Residential plotted colony. This colony is in sector — 6 SOHNA of **Haryana Shehri Vikas Pradhikaran, GURUGRAM**. License has already been granted for by D.G.T.C.P bearing No. 9609 of 2023 to be read with License No.188 of 2023. The brief details of the colony are as under:

WATER SUPPLY

1 Source

The source of water supply in this area is tube wells at present as the underground water is potable and fit for human consumption. Moreover, water is available at reasonable depth. The average yield of tubewell with 40-45 ft strainers will be about 22500 litre per hour. The recharging of underground water table in this belt is stated to be good. However still we shall resort to rain water harvesting system to keep up the recharging system. The number of tube wells required for the above area has been worked out and the tube wells will be bored in tune with growth of demand to avoid insolvency of the tube wells. The ultimate requirement of tube wells includes provisions of 10% stand by. Ultimately, water shall be supplied to the Project by **Haryana Shehri Vikas Pradhikaran, GURUGRAM**.

2 Design

The scheme has been designed for approved population of 3024 persons. The rate of water supply per head per day has been taken as 155.25 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 tube well with an electrically driven set ejector type or submersible pump capable of delivering of 22500 litre per hour. It is also proposed to equip required 1 Nos pumping set with stand by diesel engines/gen set engines for operation during failure of electricity.

4 Under Ground Storage

Underground storage tank provision has been made for 310 KL capacity.

210KL for DWS +100KL for Fire Fighting

- (a) In two compartments, which caters for the domestic as well as for firefighting requirement. The water for domestic water compartment shall overflow the fire compartment so that the water in the fire compartment also remains fresh.

5 Boosting Station

The boosting station is being planned for catering to the above requirement

6 Distribution System

The distribution system for this development has been designed to supply @ 115.00 litre per head per day for drinking water and 60 litre per head per day for flushing @ 3 times the average rate of flow on Hazen William formula. Necessary provision for laying 100, 150 and 200 mm i/d DI K-7 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 5 stories construction envisaged in the plan. Minimum pipe dia for distribution is kept as 100 mm dia.

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.

7 Sewerage

The sewer lines have been designed for 3 times average DWF in relation to the water supply demand assuming that 80% of the domestic water supply shall find its way into the proposed sewer. 200, 250, 300 & 400 mm i/d SWP pipe sewers have been proposed and designed to run half full. The sewers have been designed on 0.77 M per second minimum velocity i.e. self cleansing velocity. Necessary provision for laying S.W. pipes manholes etc. has been made in this estimate.

8 Storm water Drainage

The storm water drainage is being designed to carry 6.25mm rainfall per hour. Also suitable provisions are contemplated in our scheme to ensure better recharging of underground water table in the area R.C.C. NP-3 pipes drain with minimum 400mm dia is proposed in this area.

9 Roads

The roads in the colony have been planned in such a way that feeder roads are 24M wide. Internal service roads providing approach to the plots are 9M wide. The following specifications have been adopted which are reproduced below.

(i) 200 mm GSB

(ii) 250mm stone aggregate with brimer coat @ 85kg/100 sq.m & Tack Coat

@ 30kg/100 sq.m

(iii) 50 mm thick DBM

(iv) 30 mm Thick B.C

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.

10 Street lighting

The provision has been made on lump sum basis.

11 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.

12 Specifications

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

13 Rates


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

14 Cost

The total cost of development in this project including various PH. and B & R services works out to Rs ~~1224.85~~ 1150.15 Lac. Including 3% contingencies & P.E. charges and 49% departmental administrative, ~~1120.20~~ 1120.20 unforeseen and escalation charges. The cost per gross acre for the phase works out to be ~~98.00~~ 92.10 lac 89.61 which covers the provision of services like water supply, sewerage, storm water drainage, roads, street lighting, and plantation including maintenance thereof.


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FOR LION INFRADEVELOPERS LLP


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12.50 ACRES RESIDENTIAL PLOTTED COLONY

(DDJAY) SECTOR -6 SOHNA, GURUGRAM

DESIGN CALCULATIONS

Daily Requirement

1. Total No. of Plots

Total No. of Plots	= 224
Population per plot (@13.5)	= 3,024 persons
Therefore population = 13.5 x 224	
Water requirement for plots @ 155.25 litres/head/day =	4,69,476 litres
155.25 x 3,024	or
	470.00 KL

2. Add Requirement for Institutions etc.

a. No of commercials	= 1 No	
Daily water requirement	@ 32000 litre/Acre	
Area of commercial	= 0.500 Acres	
Therefore daily water requirement	= 0.50 x 32000	= 16,000 litres
		= 16.00 KL
b. No of Community area	= 1 no.	= 1.25 acres
Daily water requirement @ 55000litre/acre	= 1.25 X 25000	= 31,250 liters
		= 31.50 KL
c. Misc.	= 5,000 litres	= 5.00 KL
Total		= 52.50 KL

3. Area under Parks

	= 0.949 acres
Therefore daily water requirement	
25000 litre/Acre	= 23,725 Litres
0.949 x 25000	= 24.00 KL

4. Area under roads out of 12.50

	= 2.84 acres	
Therefore, daily water requirement	= 2.84 x 5000	= 14,200litres
For sweeping of roads		= 14.00 KL

Total daily requirement

a. For domestic use (1+2) = 470.00 + 52.50 = **522.50 KL**

b. Under parks & roads (3+4) = 24.00 + 14.00 = **38.00 KL**



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12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

TUBEWELL

Assuming working hours of tube well =16
 Assuming discharge/hour of each tube well =22500 lit/hour
 Total Water demand =522.50 KL

No. of tube wells Required for $\frac{522.50}{22.50} = 23.22$ $\frac{522.50}{22.50} = 23.22$
 Total demand 22.50X 16

Add 10% stand by $\frac{522.50}{22.50} = 23.22$
 $\frac{522.50}{22.50} = 23.22$

Total

Say

2 nos.

So, it is proposed to provide 2 Nos of tube wells at present has been made in the estimate. More tube wells will be installed when required. Moreover, the water supply is to be provided by HSVP to the colony ultimately and demand of flushing water supply is to be met from effluent of S.T.P.

Pumping machinery for tube wells

Gross working load = 90.00 m
 Average fall in is S.L. = 5.00 m
 Depression head = 5.00 m
 Friction Loss = 5.00m
 Total = 105.00m

B.H.P. = $\frac{22500 \times 105}{60 \times 60 \times 75 \times 0.6} = 14.58$
 =15.00H.P.

Say

Daily requirement for domestic use =574.50 KL
 522.50

Flushing Demands-

Assuming demand of water supply for flushing as 35 % of total demand,

Daily requirement for flushing use 0.35×522.50 = 182.88 KL

There fore Daily requirement for supply for drinking purposes $522.50 - 182.88$ = 340.00 KL

Boosting Machinery(portable/drinking water)

Assuming 8 hours running 1 pumps (with one stand by)

340.00

=42.50 KL

8

Discharge/hour

708.33

=~~708.08~~ liter/m

Say ~~800~~ liter/m

710

Head of Pump

i) Suction Lift	4m
ii) Friction Loss in main & specials	6m
iii) Clear Head	<u>27m</u>
	37m
say	40m

B.H.P. of Motor

710

800x40

10.51
=~~11.85~~

60x75x0.6

Say 12.50 H.P.

Boosting Machinery (flushing)

Daily requirement of water supply for flushing = 182.88 KL

Add requirement for Irrigation = 38.00 KL

Total		= 220.88 KL
Assuming 8 hours running 1 = <u>220.88</u>		= 27.61 L/HR
Pump (with one stand by) 8		
discharge/hour.		
		= 460.16 ltr/m
Discharge per minute		= 500 ltr/m
say		460
Head of Pump		
i) Suction Lift	4m	
ii) Friction Loss in main & specials	6m	
iii) Clear Head	<u>27m</u>	
	37m	
Say	40 m	
B.H.P. of Motor	460.0 500.00 x 40	6.81 =7.40
	60x75x0.6	
Say		7.50 HP.

RATING OF GEN SET (BOOSTING)

Hoasting-(12.50+7.50)

Pump 2 no

=20.00 H.P.

Tubewell =

= 30.00 H.P

=50.00 H.P.

Rating of genset

50.00 x .746 x 1.50

=55.95 KVA

Add 10% extra

=5.59 KVA

Lightening

=7.00KVA

Total

= 68.54 KVA

Say

=70.00 KVA

UNDER STORAGE TANK (drinking water supply)

Daily requirement of domestic use =340.00 KL

including institutional demand

Capacity of under ground tank taking storage

(25+33=58%) say 60 % of daily demand =204.00 KL

=0.60x340.00

SAY =210.00 KL

Fire fighting 100 $\sqrt{3024/1000}$ =173 KL

Take 1/3 for Storage = =65

SAY =100.00 KL

Total = 210+100=310

Hence it is proposed to provide underground tank of capacity **310 KL** which also includes 100 KL capacity for firefighting.

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

UNDERGROUND STORAGE TANK (FLUSHING)

Daily requirement for =220.88 KL

domestic use including

demand for irrigation &

sweeping of roads

Under Parks and Roads

Capacity of under ground =132.53 KL

tank taking storage

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

daily demand = 239.50 x 0.6

SAY

= 140.00 KL

OVER HEAD SERVICE RESERVOIR

There is no necessity of O.H.S.R. for drinking water supply and flushing water supply as the capacity of U.G.S.T.'S has been increased by 25% each which is required capacity of O.H.S.R.'S

CAPACITY OF S.T.P

CAPACITY OF S.T.P. = $0.80 \times 522.50 = 418.00$ KLD

Add 5% Marginal Factor = 438.90 KLD

SAY

=440 KLD


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12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

ABSTRACT OF COST (WATER SUPPLY)

Amount (Rs. In Lacs)

Sub Head No. 1 Head Works

~~85.60~~ ~~99.50~~
86.32

Sub Head No. 2 Pumping Machinery

~~43.74~~
44.50

Sub Head No. 3 Distribution System

~~75.79~~
66.20

(Drinking) *and Rising main*

~~39.25~~
35.42

Sub Head No. 4 Distribution System

(Flushing and irrigation)

₹ 236.27 lacs

TOTAL

~~240.55~~ ~~254.45~~
₹ 236.27 lacs

Sahil

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C.O. to final abstract of cost

Sub Work-I

Sub Head No.I

Water Supply

Head Works (Rs. In Lacs)

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

1. Boring and installing 300 i/d tubewells with reserve/direct rotary rig complete with pipe strainer to a depth of about 150 m complete along with machinery. 15.00 ✓
~~1~~ Nos. @ ~~7.50~~ 15.00 Lacs each
 2. Constructing pump chambers as per standard design of PWD PH/HSVP (For standing T.W.) 4.00
~~@ 4.00 Lacs (L.S.)~~
 3. Construction of boundary wall around the Tube-well site Water Works. 2.00
 4. Provision of footpath hedges and lawns at tube-well.(L.S.) 1.00
 5. Construction of boosting chambers of suitable size along with under ground tank of capacity 400 KL pumping machinery and generating set etc. complete in all respects.
- Details of boosting station
- i) Construction of boosting chamber 4.00
 - ii) U.G. tank 310 KL capacity incl. 100 KL For firefighting in two compartments
~~@ 4500~~ 5500 Per KL
~~6.500~~ 17.05
 - iii) Flushing tank 140 KL @ Rs. ~~4500~~ 5500
~~6.30~~ 7.70 / 62
 6. Provision for staff quarters for maintenance of the Scheme = ~~1~~ NO.350 SQ.FT. @ ~~7.50~~ 7.50 LAC (L.S.) 7.50
 7. Prov. for carriage of material (L.S.) 1.00

P.E & contingency charges @3%

Department Charges escalation unforeseen and

Administrative charges @ 49%

Total

SAY



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~~64.75~~
~~55.75~~
~~56.25~~
~~1.68~~
~~1.672~~
~~57.93~~
~~= 57.422~~ ~~66.70~~
~~28.39~~
~~32.68~~
~~28.137~~ ~~86.32~~ las
~~85.559~~ ~~99.37~~
~~85.60~~
~~99.50~~

Sub Work-I

Sub Head No.II

Water Supply
Pumping Machinery

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

Amount (Rs.)
In Lacs)

- | | |
|--|------------------------------|
| 1. Providing and installing electricity driven electro or Sub miscible pumping sets capable of delivering about 22.50 KL water per hour against a total head of 105 M complete with motor and other accessories (15 B.H.P.)
1 Nos. @ Rs 3.00 lac each | 3.00 |
| 2. Provision for diesel engine genset stand by arrangement (70 KVA) (L.S.) | 10.50 las
9.00 |
| 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.) | 1.00 |
| 5. Provision for pipes, valves, and specials inside the pump Chamber | 2.00 |
| 6. Provision for electric services connection including Electric fittings for tube wells chambers complete Including transformers L.S. | 2.50 |
| 7. Providing and installing centrifugal boosting pumping sets, capable of delivering water at 40 M head complete in all respects (2X12.50+2X7.5=40H.P.) domestic & flushing | 8.00 |
| 8. Provision for carriage for materials and other unforeseen items L.S. | <u>1.00</u> |

	Total	28.50 29.0
PE. & contingency charges @ 3%		0.87 0.855
		29.355
Department escalation unforeseen and administrative charges @49%		14.383 14.63
	Total	43.738 44.50

~~Say~~ 43.74


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12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

SUB WORK-I
SUB HEAD NO. III

WATER SUPPLY
DISTRIBUTION SYSTEM/RISING MAIN

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

		Schedule of Quantities of Water Supply		
S.No	Name of Line	Dia of pipe in mm and Length in meters		
		200mm	150mm	100mm
1	(UGT) R-A	70.00	-	-
2	A-B	39.00	-	-
3	B-B1	-	147.00	-
4	B-C	-	39.00	-
5	C-C1	-	147.00	-
6	C-D	-	39.00	-
7	A-E	156.00	-	-
8	E-F	-	-	39.00
9	F-F1	-	-	41.00
10	F-G	-	-	43.00
11	G-G1	-	-	41.00
12	E-H	-	117.00	-
13	D-H	-	156.00	-
14	H-I	-	-	47.00
15	I-I1	-	-	117.00
16	I-J	-	-	82.00
	TOTAL	265.00	645.00	410.00

1. Providing, laying, jointing and testing D.I. K9 Pipes including cost of excavation complete as per specifications. Amount (Rs. In Lacs)

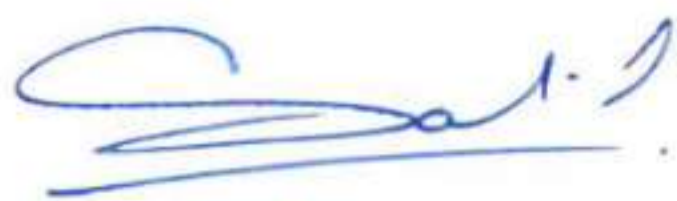
100mm dia i/d 410 mtrs @ Rs. 1460/-	5.98
150mm dia i/d 645 mtrs @ Rs. 2040/-	13.15
200mm dia i/d 265 mtrs @ Rs. 2700/-	7.16

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

100mm dia i/d 4 Nos. @ Rs. 12000/- each	0.48
150 mm dia i/d 6 Nos. @ R.s. 15000/- each	0.90
200 mm dia i/d 2 Nos. @ R.s. 20000/- each	0.40

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

15 Nos. @ Rs. 10,000/- each	1.50
4. Providing and fixing fire hydrants complete with masonry chambers	
6 Nos. @ Rs. 15,000/- each	0.90
5. Providing and fixing indicating plates for sluice valve, air value etc.	
18 Nos. @ Rs. 2,000/ each	0.36
6. Provision for rising main from tube wells to U.G.S.T. 100mm dia DI-K9 pipes i/d 500 mtrs @ Rs. 2040/-mtr	10.20 5.10
7. Provision for rising main from main HSVP water line to U.G. tank 100 mm dia DI-K9 pipes i/d 220 mtrs @ Rs. 1460/- mtr	3.21
8. Provision for connection from Main HSVP line(L.S)	2.00
9. Providing for carriage of material L.S.	1.00
10. Provision for cutting the roads and making good to its original conditions	1.00
Add RE. & Contingency charges @3%	1.481
Department charges escalation unforeseen and administrative charges @49%	24.922
	43.14 1as
	49.38
	1.29 1as
	50.861
	44.43
	21.77 1as
	66.20 1as
Total	75.783
Say	75.79



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Sub Work No. 1
Sub Head No. IV

Water Supply
Flushing and Irrigation

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

Schedule of Quantities of Irrigation and Flushing				
S.No	Name of Line	Dia of pipe in mm and Length in meters		
		150mm	100mm	80 mm
1	R'-A'	42.00	-	-
2	A'-B'	40.00	-	-
3	B'-B1'	-	151.00	-
4	B'-C'	-	40.00	-
5	C'-C1'	-	151.00	-
6	C'-D'	-	40.00	-
7	D'-D1'	-	-	17.00
8	A'-E'	156.00	-	-
9	E'-F'	-	-	39.00
10	F'-F1'	-	-	36.00
11	F'-G'	-	-	43.00
12	G'-G1'	-	-	36.00
13	E'-H'	-	117.00	-
14	D'-H'	-	156.00	-
15	H'-I'	-	-	51.00
16	I'-I1'	-	-	104.00
17	I'-J'	-	-	70.00
	TOTAL	238.00	655.00	396.00
	TOTAL		1,289.00	

655 + 396 = 1051 m

Amount (Rs. in Lacs)

1. Providing, laying, jointing and testing of HDPE Pipes pipes including cost of excavation etc. complete in all respect.

a) 150mm dia./HDPE 238 m @ Rs. 2040/- M	4.86
b) 100mm dia./HDPE. 655 m @ Rs. 1460/- M	9.56
c) 80mm dia./HDPE. 396 m @ Rs. 1100/- M	4.35

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

a) 150mm dia 2nos. @ Rs. 15000/- each	0.30
---------------------------------------	------

b) 100mm dia 8 nos. @ Rs. 12000/- each	0.60 0.96
c) 80mm dia 3 nos. @ Rs. 10000/- each	0.30
3. Providing and fixing air valves and scour valves or scour taps including cost of brick masonry chamber 10 Nos. @ Rs. 10,000/- each (L.S.)	1.00
4. Providing and fixing indicating plates for sluice Valves, air v&ves etc. 18 nos. @ Rs. 2000/- each	0.36
5. Providing and Fixing 20mm dia irrigation Hydrants Valves 15Nos. Rs 5000 Each	0.75
6. <i>Prov. and fixing fire hydrants complete in all respect (L.S.)</i>	1.00
7. Provision for cutting of roads and carriage of materials etc. and other unforeseen charges (L.S.)	1.00
Total	23.08
Add P.E. & Contingency charges @ 3%	0.692 0.77
	23.772 26.34
Department escalation unforeseen and Administrative charges @ 49%	11.648 12.91
	35.420 39.25
Say	35.42


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12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

SUB HEAD II

SEWERAGE SCHEME

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

Schedule of Quantities of S.W. Pipes				
S.No	Name of Line	Dia of pipe in mm and Length in meters		
		200mm	250mm	300mm
1	A-B	68.00	-	-
2	B1-B	102.00	-	-
3	B-C	51.00	-	-
4	D-C	-	148.00	-
5	C-F	-	39.00	-
6	E-F	-	148.00	-
7	F-H	-	39.00	-
8	G-H	-	148.00	-
9	H-I	-	39.00	-
10	J1-J	36.00	-	-
11	J-K	43.00	-	-
12	K1-K	36.00	-	-
13	K-I	39.00	-	-
14	I-L	-	-	156.00
15	L1-L	110.00	-	-
16	L-R (STP)	-	-	42.00
	TOTAL	485.00	561.00	198.00
	TOTAL	1,244.00		

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. (Rs. in lacs)

i) 200 mm i/d

Av. Depth upto 2.5M — 485.00M @ Rs. 1700/- per M

8.24

ii) 250 mm i/d

Av. Depth upto 2.5M — 561.00M @ Rs. 2000/- per M

11.22

iii) 300 mm i/d

Av. Depth upto 2.5 M — 198.00M @ Rs. 2880/- per M

5.70

2. Provision for providing oblique junctions (L.S.)

1.00

3. Providing STP @ ~~2500~~ 16,000 per KLD - 440.00 KLD x ~~16000~~ 16000 ✓

~~2500~~ 16000 ✓

~~2500~~ 16000 ✓

~~16000~~ 16000 ✓

Including Machinery complete in all respect

~~40.00~~
✓ 70.40 ✓ 70.40 ✓

4. Provision of temporary timbering etc.

1.00

5. Provision for cutting of roads, Trenchless Excavation and carriage of materials etc. and unforeseen charges (L.S.)

~~3.00~~

6. Provision for over flow pipe from STP to HSVP main Sewer (LS.)

1.00

7. Provision for connection of over flow pipe from STP to HSVP Line

2.00

P.E. & Contingency charges @ 3%

✓ Total ~~105.56~~ 105.56

✓ ~~3.16~~ 3.166 4.36

✓ ~~108.72~~ 108.726 149.52

✓ ~~53.27~~ 53.276 73.26

Total ~~162.002~~ 162.002 222.78

Department escalation unforeseen and administrative charges @ 49%

Say: ~~158.94~~ 162.00

~~222.80~~

~~162.00~~ ✓

Ar. SAHIL PRUTHI
CA/2018/96260

FOR LION INFRADEVELOPERS LLP

Authorised Signatory

12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

SUB HEAD III

STORM WATER DRAINAGE

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

Schedule of Quantities of R.C.C Pipes NP-3		
S.No	Name of Line	Dia of pipe in mm and Length in meters
		400mm
1	A-B (R.W.H.)	112.00
2	C-D	150.00
3	E-F	84.00
4	F1-F	41.00
5	F-D	39.00
6	D-H	39.00
7	G-H	150.00
8	H-J	39.00
9	I-J	150.00
10	J-K	39.00
11	B-K	169.00
12	K-L (R.W.H)	35.00
13	L-M	23.00
14	M1-M	117.00
15	M-N (R.W.H)	91.00
	TOTAL	1,278.00

- | | |
|--|---|
| <p>1. Providing, laying RCC pipes drain class NP —3 with cement joint, manholes, excavation etc. complete in all respect 400 mm i/d</p> <p>Av. Depth up to 2m— 1,278 M @ Rs. 2500/- per M 400 mm i/d</p> <p>2. Provision for road gullies with 300 mm dia pipe connection L.S.</p> <p>3. Provision for providing Rain Water Harvesting Pits (at Selected Places) 3 No. & Rain Water Harvesting Arrangements @ 3.50 Lacs each <i>at selected places complete in all respect (L.S)</i></p> <p>4. Provision for lighting, watching and temporary diversion of Traffic</p> <p>5. Provision for cutting of roads and carriage of materials etc. and other unforeseen items L.S.</p> | <p>Rs. in lacs</p> <p>31.95</p> <p>5.00</p> <p>15.00
45.50</p> <p>2.00</p> <p>2.50</p> |
|--|---|

6. Provision for Temp. Disposal arrangements
till HSVP ~~Sectors~~ ^{Service} are Provided & Over Flow arrangement
To HSVP Line (L.S)

\$ 5.00 las

7.. Provision for connection with HSVP on master line

\$ 2.00 las

8.. Provision for timbering haring and shoring

\$ 1.00 las

Total

\$ 64.45 las

P.E. & contingency charges @ 3%

Total

\$ 1.93 las

Department escalation unforeseen and administrative ^{costs}
charges @ 49%

\$ 2.82 66.38 las

96.77

\$ 32.52 las

Total

47.42

144.20

\$ 98.90 las

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FOR LION INFRADEVELOPERS LLP

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12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

SUB WORK NO. IV

ROAD WORK

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

Schedule of Quantities of Road Layout			
S.No	Name of Road	Length in meters	Width of Road
1	R1	24.00	15.00
2	R2	104.00	9.00
3	R3	111.00	9.00
4	R4	149.00	9.00
5	R5	147.00	9.00
6	R6	228.00	9.00
7	R7	147.00	9.00
8	R8	147.00	9.00
9	R9	147.00	9.00
10	R10	36.00	9.00
11	R11	36.00	9.00
	TOTAL	1,276.00	
	Total Length=		
	1,276.00+5% (For Curves) =1,339.8		
	TOTAL	1,340.00	

Width in meter	Length in meter	Metalled Portion	Area in Sqm.
9.00	1,252	5.50	6,886
15.00	24.00	8.50 7.00 m	204 168
Total	1,169		7,090

7054 Sqm

Item No.	Description of Item	Unit	Qty.	Rate (Rs)	Amount (Rs. In Lacs)
1	Earth Works				
1	Provision for levelling + earth filling as per site condition approximate (Area under Roads)	Acre	2.84 12.50	1,75,000	4.97 21.87
2	Provision For Construction of roads by providing granular sub base 200 mm as per MORT & H specifications conforming to claus 401 grading-II 400.1				
i.	200 mm GSB				
ii.	250 mm thick stone aggregate				
iii.	50 mm thick DBM with brimer coat @85kg/100 sq.m & tack coats @30kg/100sq.m				
iv.	30 mm thick B.C				
	Total	Sqm	7,090 7054	1500	106.35 105.81
3	Miscellaneous Items				
3.1	Construction of cement concrete Kerband Channels as per specifications(1340X2)	Meter	2680	700 6001	18.76 16.08
3.2	Providing and fixing guide maps at selected locations (L.S.)				1.00
3.3	Provision for demarcating burgies (L.S.) and plot indicator				1.00
3.4	Provision for traffic arrangement (L.S)				2.50
3..5	Provision for carriage of material (L.S.)				5.00
3.6	Construction of pavement Arrangement in providing and laying 80mm cement conc./base Provision for parking with cement conc. 1:2:4 100mm thick over cement conc. 1:4:8 0.50 acres = 2100/2 — 1100 sq.m. say	Pavement	385	1000	3.85
		Parking	715	1200	8.58
					151.01 165.19 lacs
	Add 3% contingency & P.E. charges				4.53 4.96 lacs
	Total				155.55 170.15
	Department escalation unforeseen and administrator charges @ 49%				76.22 83.37
	Total				231.76 253.52 lacs
	Say				231.80



Ar. SAHIL PRUTHI
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FOR LION INFRADEVELOPERS LLP


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SUB WORK-V**12.50 ACRES RESIDENTIAL PLOTTED COLONY****(DDJAY) SECTOR -6 SOHNA, GURUGRAM****STREET LIGHTING**

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

Amount (Rs. In Lacs)

Providing street lighting on
internal Roads as per standard
specification in 12.50acre
area Rs. 2,50,000/- per acre
12.50 x 2,50,000/- = ~~68.687~~

= 31.25

Add 3% contingencies & P.E.
Charges

= 0.937
32.187

Add Department Charges escalation
unforeseen and administrative
charges @ 49%
Total

= 15.771
= 47.958

Say

~~4~~ = 47.96 *Las*


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FOR LION INFRADEVELOPERS LLP.


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12.50 ACRES RESIDENTIAL PLOTTED COLONY
(DDJAY) SECTOR -6 SOHNA, GURUGRAM

SUB WORK NO. VI

COST ESTIMATE
HORTICULTURE

Name of Project: Service Plan Estimate of Residential Plotted colony (DDJAY) measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

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 0.949 Acres Rs, 1,50,000/- per acre

1.42

2 Planting of trees with tree guards on Roads at 30 intervals on

Total length = 1340.00 M

No. of trees @12 m c/c $1340 \times 2 / 12 = 223$ Nos.

SAY = 230 Nos.

Cost of the tree

Total = ~~1800~~ x 230 Nos

TOTAL ²³¹⁰

Add 3% contingencies and P.E charges

Add 49% departmental charges, price escalation, unforeseen and Adm charges

TOTAL

~~SAY~~



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~~5.31~~ los
~~4.14~~
 6.73 las
~~5.56~~
 0.20 las
~~0.166~~
~~5.726~~ 6.93 las
 3.40 las
~~2.806~~
 10.33 las
~~8.532~~

say ~~8.54~~ 10.33 las

12.50 ACRES RESIDENTIAL PLOTTED COLONY
SECTOR -97 (VILLAGE SOHNA), GURUGRAM

SUB WORK NO. VII

MAINTENANCE CHARGES AND RESURFACING OF ROADS

Name of Project: Service Plan Estimate of Residential Plotted colony measuring 12.50 acres in SECTOR 6 SOHNA, GURUGRAM developed by M/S LION INFRA DEVELOPERS LLP.

2ND Phase after 5 yrs of 1st phase

AMOUNT (RS. IN LACS)

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

12.50 acres @ Rs. 8.00 lacs
per acre

= 100.00

2. Provision for resurfacing of roads after 1st 5 years of maintenance i.e. 50mm thick B.M. and 30mm premix carpet with mechanical paver with seal coat

~~7,090~~ sqm @ Rs 660/- Per Sqm
7054

46.56
~~= 46.80~~

3. Resurfacing of road after 10 years of maintenance by Providing 50mm thick BM with 30 mm thick premix carpet with seal coat with mechanical paver

~~7,090~~ sqm @ Rs 825/- Per Sqm
7054

~~= 58.50~~

TOTAL

~~= 205.30~~ **204.76 lacs**

Add 3% PE and contingency charges

~~= 6.16~~

6.14 lacs

~~= 211.46~~

210.90 lacs

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

~~= 103.62~~

103.34 lacs

Total

~~= 315.08~~


314.24 lacs

Say

315.10


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FOR LION INFRADEVELOPERS LLP.


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HYDRAULIC DESIGN STATEMENT OF WATER SUPPLY (LOAD CALCULATION)

Providing Water Supply Scheme 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY) SECTOR-6, SOHNA,
GURUGRAM

Sr.No	Name of Pipe of Line	No of Plots	Population @13.5 persons per plot	Water requirement @155 l/head /day in KLD	Water requirement for non-residential plots				Total requirement in KLPD	Gross water requirement in gallons per day (Total)
					Plot's area in acres	Type of building	Basis of water requirement	Gross water requirement		
1	2	3	4	5	6	7	8	9	10	11
1	(UGT) R-A	-	-	-	-	-	-	-	-	-
2	A-B	4	54	8.37	-	-	-	-	8.37	2211
3	B-B1	34	459	71.14					71.14	18793
4	B-C	4	54	8.37	-	-	-	-	8.37	2211
5	C-C1	34	459	71.14	-	-	-	-	71.14	18793
6	C-D	3	40.5	6.27	Community 1 1.25 Acre	25.00KL/Acre	31.25 KL	31.25	37.52	9911
7	A-E	39	526.5	81.61	-	-	-	-	81.61	21559
8	E-F	6	81	12.55	-	-	-	-	12.55	3315
9	F-F1	10	135	20.92	-	-	-	-	20.92	5526
10	F-G	6	81	12.55	-	-	-	-	12.55	3315
11	G-G1	5	67.5	10.46	-	-	-	-	10.46	2763
12	E-H	17	229.5	35.57					35.57	9396
13	D-H	34	459	71.14	-	-	-	-	71.14	18793
14	H-I	6	81	12.55	-	-	-	-	12.55	3315
15	I-I1	13	175.5	27.20	-	-	-	-	27.20	7185
16	I-J	9	121.5	18.83	Commercial 1 0.50 Acre	32.00KL/Acre	16.00 KL	16.00	34.83	9201


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DESIGN STATEMENT

Providing Water Supply Scheme 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY) SECTOR-6, SOHNA, GURUGRAM

S. No.	Name of line	Water load in gallons per day			3 times water load in gallon per day	Designed water load in gallons per day	Size in mm	Length in m	Head loss per 1000m	Head loss in per line in m	Hydraulic levels in mtr			R.L. at L/E in mtr	Terminal head at L/E in m
		Self	Branch	Total							U/E	12	L/E		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	(UGT) R-A	-	136287	136287	4,08,861	3,33,0000	200	70.00	9.20	0.50	235.00	234.77	199.80	36.17	
2.	A-B	2211	68,143	70,354	2,11,063	3,33,0000	200	39.00	0.94	0.02	234.77	233.24	199.80	34.64	
3	B-B1	18793	34,071	52,864	1,58,593	3,33,0000	150	147.00	20.10	0.40	233.24	232.09	199.80	33.49	
4	B-C	2211	68,143	70,354	2,11,063	3,33,0000	150	39.00	5.00	1.35	232.09	231.59	199.80	32.99	
5	C-C1	18793	34,071	52,864	1,58,593	3,33,0000	150	147.00	1.62	0.08	231.59	231.20	199.80	32.60	
6	C-D	2211	68,143	70,354	2,11,063	3,33,0000	150	39.00	2.23	0.20	231.59	231.37	199.80	32.77	
7	A-E	21559	68,143	89,702	2,69,106	3,33,0000	200	156.00	3.32	0.13	231.37	230.87	199.80	32.27	
8	E-F	3315	34,071	37,386	1,12,158	3,33,0000	100	39.00	2.23	0.21	231.37	231.29	199.80	32.69	
9	F-F1	5526	17,035	22,561	67,684	3,33,0000	100	41.00	0.62	0.02	231.29	230.79	199.80	32.19	
10	F-G	3315	34,071	37,386	1,12,158	3,33,0000	100	43.00	0.94	0.05	231.29	231.27	199.80	32.67	
11	G-G1	2763	17,035	19,798	59,394	3,33,0000	100	41.00	0.62	0.02	231.59	231.37	199.80	32.77	
12	E-H	9396	34,071	43,467	1,30,401	3,33,0000	150	117.00	0.62	0.02	231.59	231.37	199.80	32.77	
13	D-H	18793	34,071	52,864	1,58,593	3,33,0000	150	156.00	5.00	0.05	231.37	230.87	199.80	32.27	
14	H-I	3315	17,035	20,350	61,050	3,33,0000	100	47.00	0.62	0.02	231.37	231.29	199.80	32.69	
15	I-I1	7185	8,517	15,702	47,107	3,33,0000	100	117.00	5.00	0.25	231.29	230.79	199.80	32.19	
16	I-J	9201	8,517	17,718	53,154	3,33,0000	100	82.00	3.32	0.45	231.29	231.27	199.80	32.67	


SCHEDULE OF QUANTITIES

Providing Water Supply Scheme 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY)
SECTOR-6, SOHNA GURUGRAM

Sr. No.	Name of Pipe Line	Pipe (length in M size in mm)										S.V. Qty. in Nos. Size in mm				
		100	150	200	250	300	100	150	200	250	300	100	150	200	250	300
1	2 (UGT) R-A	3	4	5	6	7	8	9	10	11	12	-	-	1	-	-
2	A-B	-	-	39.00	-	-	-	-	-	-	-	-	-	-	-	-
3	B-B1	-	147.00	-	-	-	-	1	-	-	-	-	1	-	-	-
4	B-C	-	39.00	-	-	-	-	1	-	-	-	-	1	-	-	-
5	C-C1	-	147.00	-	-	-	-	1	-	-	-	-	1	-	-	-
6	C-D	-	39.00	-	-	-	-	1	-	-	-	-	1	-	-	-
7	A-E	-	-	156.00	-	-	-	-	1	-	-	-	-	-	-	-
8	E-F	39.00	-	-	-	-	1	-	-	-	-	-	-	-	-	-
9	F-F1	41.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	F-G	43.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	G-G1	41.00	-	-	-	-	1	-	-	-	-	-	-	-	-	-
12	E-H	-	117.00	-	-	-	-	1	-	-	-	-	1	-	-	-
13	D-H	-	156.00	-	-	-	-	1	-	-	-	-	1	-	-	-
14	H-I	47.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	I-I1	117.00	-	-	-	-	1	-	-	-	-	1	-	-	-	-
16	I-J	82.00	-	-	-	-	1	-	-	-	-	1	-	-	-	-
	TOTAL	410.00	645.00	265.00	-	-	4	6	2	-	-	4	6	2	-	-
			1,320.00													


Ar. SAHIL PRUTHI
 CA/2018/96260

FOR LION INFRADEVELOPERS LLP


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STATEMENT FOR CALCULATION OF SEWERAGE LOAD
PROVIDING SEWERAGE SCHEME 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY)
SECTOR-6, SOHNA GURUGRAM

S. No.	Name of Line	Water Requirement of plots			Demand of non-residential areas			Total requirement in KLPD	Quantity of Sewage@80% of Water Requirement in cusecs.
		No. of Plots	Population @13.5 persons /plot	Water Requirement @155 LPCD in KLPD	Nature of building	Basis of water Requirement	Gross Requirement in KLPD		
1	A-B	8	108	16.74	Commercial 1 0.50 Acre	32.00KL/Acre	16.00 KL	32.74	0.01338
2	B1-B	13	175.5	27.20	-	-	-	27.20	0.01111
3	B-C	6	81	12.55	-	-	-	12.55	0.00512
4	D-C	34	459	71.14	-	-	-	71.14	0.02907
5	C-F	6	81	12.55	-	-	-	12.55	0.00512
6	E-F	34	459	71.14	-	-	-	71.14	0.02907
7	F-H	6	81	12.55	-	-	-	12.55	0.00512
8	G-H	34	459	71.14	-	-	-	71.14	0.02907
9	H-I	5	67.5	10.46	-	-	-	10.46	0.00427
10	J1-J	5	67.5	10.46	-	-	-	10.46	0.00427
11	J-K	7	94.5	14.65	-	-	-	14.65	0.00598
12	K1-K	10	135	20.92	-	-	-	20.92	0.00855
13	K-I	6	81	12.55	-	-	-	12.55	0.00512
14	I-L	39	526.5	81.61	-	-	-	81.61	0.03335
15	L1-L	11	148.5	23.01	Community 1 1.25 Acre	25.00KL/Acre	31.25 KL	54.26	0.02217
16	L-R (STP)	-	-	-	-	-	-	-	-

DESIGN STATEMENT
PROVIDING SEWERAGE SCHEME 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY)
SECTOR-6, SOHNA GURUGRAM

S. No.	Name of Line	Sewage Load in cusecs		3 times Sewage Load in cusecs	Design Discharge in cusecs	Size in mm	Length in m	Slope 1 in	Velocity in m/sec	Fall in m	Formation level in m		Invert level in m		Depth in m		Avg depth in m
		Self	Branch	Total							U/E	L/E	U/E	L/E	U/E	L/E	
1	A-B	0.01338	-	0.01338	0.44	200	68.00	200	0.77	0.34	206.04	206.10	205.04	204.70	1.00	1.34	1.17
2	B1-B	0.01111	-	0.01111	0.44	200	102.00	200	0.77	0.51	206.30	206.10	205.30	204.79	1.00	1.51	1.26
3	B-C	0.00512	0.02449	0.02961	0.44	200	51.00	200	0.77	0.26	206.10	206.14	204.70	204.44	1.34	1.60	1.47
4	D-C	0.02907	-	0.02907	0.44	250	148.00	200	0.77	0.74	206.38	206.14	205.38	204.64	1.00	1.74	1.37
5	C-F	0.00512	0.05868	0.0638	0.44	250	39.00	200	0.77	0.20	206.14	206.17	204.44	204.24	1.60	1.80	1.70
6	E-F	0.02907	-	0.02907	0.44	250	148.00	200	0.77	0.74	206.41	206.17	205.41	204.67	1.00	1.74	1.37
7	F-H	0.00512	0.09287	0.09799	0.44	250	39.00	200	0.77	0.20	206.17	206.22	204.24	204.04	1.80	2.00	1.90
8	G-H	0.02907	-	0.02907	0.44	250	148.00	200	0.77	0.74	206.44	206.22	205.44	204.70	1.00	1.74	1.37
9	H-I	0.00427	0.12706	0.13133	0.44	250	39.00	200	0.77	0.20	206.22	206.26	204.04	203.84	2.00	2.20	2.10
10	J1-J	0.00427	-	0.00427	0.44	200	36.00	200	0.77	0.18	206.35	206.32	205.35	205.17	1.00	1.18	1.09
11	J-K	0.00598	0.00427	0.01025	0.44	200	43.00	200	0.77	0.22	206.32	206.28	205.17	204.95	1.18	1.40	1.29
12	K1-K	0.00855	-	0.00855	0.44	200	36.00	200	0.77	0.18	206.31	206.28	205.31	205.13	1.00	1.18	1.09
13	K-I	0.00512	0.0188	0.02392	0.44	200	39.00	200	0.77	0.20	206.28	206.26	204.95	204.75	1.40	1.60	1.50
14	I-L	0.03335	0.15525	0.1886	0.81	300	156.00	200	0.77	0.78	206.26	206.48	203.84	203.06	2.20	2.98	2.59
15	L1-L	0.02217	-	0.02217	0.44	200	110.00	200	0.77	0.55	206.38	206.48	205.38	204.83	1.00	1.55	1.28
16	L-R (STP)	-	0.21077	0.21077	0.81	300	42.00	200	0.77	0.21	206.48	206.52	203.06	202.85	2.98	3.19	3.09


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FOR LION INFRADEVELOPERS LLP


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S No	Name of Firm
<p align="center">Schedule of Quantities of S.W. Pipes</p> <p align="center">PROVIDING SEWERAGE SCHEME 12.50 ACRES RESIDENTIAL PLOTTED COLONY</p> <p align="center">(DDJAY) SECTOR-6, SOHNA GURUGRAM</p>	

[illegible]

DESIGN STATEMENT
PROVIDING STORM WATER DRAINAGE SCHEME 12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY)
SECTOR-6, SOHNA GURUGRAM

S. No.	Name of Line	Area in Acres			Discharges in cusecs/@ ¼ rainfall intensity	Designed Discharge in cusecs	Size in mm	Length in mtr	Slope 1 in	Velocity in m/sec	Fall in m	Ground Levels in mtr		Invert level in m		Depth in mtr		Avg depth in mtr
		Self	Branch	Total								U/E	L/E	U/E	L/E	U/E	L/E	
1	A-B (RWH)	2.46	-	2.46	0.615	3.52	400	112.00	560	0.77	0.20	206.48	206.38	205.48	205.28	1.00	1.20	1.10
2	C-D	1.42	-	1.42	0.355	3.52	400	150.00	560	0.77	0.27	206.48	206.26	205.48	205.21	1.00	1.27	1.14
3	E-F	0.49	-	0.49	0.123	3.52	400	84.00	560	0.77	0.15	206.35	206.28	205.35	205.20	1.00	1.15	1.08
4	F1-F	0.37	-	0.37	0.093	3.52	400	41.00	560	0.77	0.07	206.31	206.28	205.31	205.24	1.00	1.07	1.04
5	F-D	0.23	0.86	1.09	0.273	3.52	400	39.00	560	0.77	0.07	206.28	206.26	205.20	205.13	1.15	1.22	1.19
6	D-H	0.23	2.51	2.74	0.685	3.52	400	39.00	560	0.77	0.07	206.26	206.22	205.13	205.06	1.22	1.29	1.26
7	G-H	1.42	-	1.42	0.355	3.52	400	150.00	560	0.77	0.27	206.44	206.22	205.44	205.18	1.00	1.27	1.14
8	H-J	0.23	4.16	4.39	1.098	3.52	400	39.00	560	0.77	0.07	206.22	206.17	205.06	204.99	1.29	1.36	1.33
9	I-J	1.42	-	1.42	0.355	3.52	400	150.00	560	0.77	0.27	206.41	206.17	205.41	205.14	1.00	1.27	1.14
10	J-K	0.23	5.81	6.04	1.510	3.52	400	39.00	560	0.77	0.07	206.17	206.14	204.99	204.92	1.36	1.43	1.40
11	B-K	1.70	2.46	4.16	1.040	3.52	400	169.00	560	0.77	0.30	206.38	206.14	205.28	204.98	1.00	1.30	1.15
12	K-L (RWH)	0.37	10.20	10.57	2.643	3.52	400	35.00	560	0.77	0.06	206.14	206.10	204.92	204.86	1.43	1.49	1.43
13	L-M	0.12	10.57	10.69	2.673	3.52	400	23.00	560	0.77	0.04	206.10	206.10	204.86	204.82	1.49	1.53	1.51
14	M1-M	0.68	-	0.68	0.170	3.52	400	117.00	560	0.77	0.21	206.30	206.10	205.30	205.09	1.00	1.21	1.11
15	M-N (RWH)	1.13	11.37	12.500	3.125	3.52	400	91.00	560	0.77	0.16	206.10	206.04	204.82	204.66	1.53	1.69	1.61

Schedule of Quantities of R.C.C. Pipes

PROVIDING STORM WATER DRAINAGE SCHEME
12.50 ACRES RESIDENTIAL PLOTTED COLONY (DDJAY) SECTOR-6, SOHNA,
GURUGRAM

GURUGRAM

S.No	Name of Line	Dia of pipe in mm and Length in meters						
		400mm	500mm	550mm	600mm	800mm	900mm	
1	A-B (R.W.H.)	112.00	-	-	-	-	-	
2	C-D	150.00	-	-	-	-	-	
3	E-F	84.00	-	-	-	-	-	
4	F1-F	41.00	-	-	-	-	-	
5	F-D	39.00	-	-	-	-	-	
6	D-H	39.00	-	-	-	-	-	
7	G-H	150.00	-	-	-	-	-	
8	H-J	39.00	-	-	-	-	-	
9	I-J	150.00	-	-	-	-	-	
10	J-K	39.00	-	-	-	-	-	
11	B-K	169.00	-	-	-	-	-	
12	K-L (R.W.H)	35.00	-	-	-	-	-	
13	L-M	23.00	-	-	-	-	-	
14	M1-M	117.00	-	-	-	-	-	
15	M-N (R.W.H)	91.00	-	-	-	-	-	
	TOTAL	1,278.00						


Ar. SAHIL PRUTHI
 CA/2018/96260

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