

## Directorate of Town & Country Planning, Haryana

Plot No. 3, Nagar Yojna Bhawan, A-wing, Madhya Marg, Sector-18 Chandigarh,  
Website: [tcpharyana.gov.in](http://tcpharyana.gov.in); Phone: 0172-2548475, 2707175; email: [tcpharyana7@gmail.com](mailto:tcpharyana7@gmail.com)

Regd.

To

Elite Homes Pvt. Ltd.  
Shop No. 20, M2K Mall,  
16, Manglam Place,  
New Delhi-85.

Memo No. LC-4030-JE(SK)-2021/ 2617

Dated: 01-02-22

**Subject:** Approval of Service Plan/Estimates for Affordable Residential Plotted Colony (under DDJAY-2016) over an area measuring 5.30625 acres, (Licence no. 22 of 2020 dated 31.08.2020) in revenue estate of village Garhi Alawalpur, Sector-5 & 7A, Sub-Tehsil Dharuhera, Rewari being developed by M/s Elite Homes Pvt. Ltd..

Please refer your application on the matter as subject cited above.

The service plan estimates of Affordable Residential Plotted Colony over an area measuring 5.30625 acres (Licence no. 22 of 2020 dated 31.08.2020 under DDJAY) in Sector-5, Dharuhera, Rewari has been checked and corrected wherever necessary by Chief Engineer-I, HSVP, Panchkula and are hereby approved subject to the following terms & conditions:-

1. That you will abide by all the conditions and notes mentioned in the Service Plan Estimates of the subject cited colony contained in the Chief Engineer-I, HSVP, Panchkula office memo dated 13.10.2021.
2. That you will have to pay the proportionate cost to the External Development Charges for setting up Affordable Residential Plotted Colony for the services like water supply, sewerage, storm water drainage, roads, bridges, community building, street lighting, horticulture and maintenance thereof etc. on gross acreage basis as and when determined by HSVP. These charges will be modifiable as and when approved by the authority/State Govt. and will be binding upon the colonizer.
3. The category wise area shown on the plans and proposed density of population thereof has been treated to be correct for the purpose of services only.
4. That you shall be responsible for maintenance and upkeep of all roads, open spaces, public parks and public health services for a period of five years from the date of issue of the completion certificate under rule 16 unless earlier relieved of this responsibility and there upon to transfer all such roads, open spaces, public parks and public health services free of cost to the Government or the local authority, as the case may be.
5. The wiring system of street lighting will be under ground and the specifications of the street lighting fixture etc. will be as per relevant standard of HVPNL. LED lamps shall be provided to meet the requirement of HVPNL and as well environment.


6. It is made clear that appropriate provision for fire-fighting arrangement as required in the NBC/ISI should also be provided by you and fire safety certificate should also be obtained from the competent authority before undertaking any construction. You shall be sole responsible for fire safety arrangement.
7. All technical notes and comments incorporated in the estimates in two sheets will also apply. A copy of these is also appended as Annexure-A.

**Note (1):-**

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 Controlled Board or any other Authority Administering the said Acts.

A copy of the approved service plan/estimates is enclosed herewith. You are requested to supply three additional copies of the approved service plan estimates to the Chief Administrator, HSVP, Panchkula under intimation to this office.

**DA/As above**

  
(Amit Madholia)  
District Town Planner (HQ)  
For Director, Town & Country Planning  
Haryana, Chandigarh

Endst. No LC-4030-JE(SK)-2021/

Dated :

A copy is forwarded to the Chief Engineer-1, HSVP, Panchkula with reference to his memo No. CE-I/ACE(HQ)/HDM(G)/2021/177552 dated 13.10.2021 for information and necessary action please.

1  
(Amit Madholia)  
District Town Planner (HQ)  
For Director, Town & Country Planning  
Haryana, Chandigarh

**HSVP SUBMISSION REPORT**  
**ON**  
**"SERVICES PLAN AND ESTIMATE"**

**FOR INTERNAL SERVICES**  
**(SWERAGE, STORM WATER DRAINAGE, WATER SUPPLY,**  
**ROAD WORKS, LIGHTING & HORTICULTURE)**

**FOR**  
**"AFFORDABLE RESIDENTIAL PLOTTED COLONY"**  
**UNDER "DDJAY-2016"**  
**SCHEME IN 5.30625 ACRE, SECTOR-5, 7A DHARUHERA,**  
**Dist. REWARI, HARYANA**

**BEING DEVELOPED BY:**

**M/S ELITE HOMES PVT.LTD.**  
**30, M2K MALL, 16 MANGLAM PALACE DISTRICT CENTER**  
**ROHINI, NEW DELHI-85**

**For Elite Homes Pvt. Ltd.**

  
**Director/Authorised Signatory**



**PROJECT REPORT/ESTIMATE FOR PROVIDING INTERNAL SERVICES, i.e. WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ETC. IN RESPECT OF AFFORDABLE RESIDENTIAL PLOTTED COLONY KNOWN AS "M2K HARMONY," WITH COMMERCIAL BLOCK UNDER "DDJAY-2016" SCHEME IN 5.30625 ACRE, SECTOR-5, 7A, DHARUHERA, REWARI, HARYANA**

**REPORT**

Dharuhera is a leading industrial city of India in the state of HARYANA, situated in the National Capital Region near the National Capital. Being in the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, Haryana Shehri Vikas Pradhikaran (HSVP) has already developed residential sectors which are inhabited to great extent. Further to the increasing demand HSVP has planned to develop new sectors at outskirts of Gurgaon town. This report and estimate is for approval of proposed layout plan under "DDJAY-2016" Scheme for area measuring 5.30625 acres in Sector-5, 7A Dharuhera, Distt. Rewari, Haryana being developed by M/s Elite Homes Pvt. Ltd., New Delhi.

**WATER SUPPLY**

The source of water supply shall be HSVP water supply connection. It has been proposed to construct three underground tanks of capacity of Domestic Water 150KL (75kl X 2) No's, and fire fighting tanks 117 KL (117 x 1) no's, at location as per drawing for the purpose of domestic and fire protection. The underground tanks will be fed from HSVP supply; from there water will be pumped to O.H tanks on the roof of each individual house to be construction in the said colony.

**DESIGN:**

The scheme has been designed for population of residential colony. The rate of water supply per head per day has been taken assumed as ~~150~~ <sup>88.25</sup> liter per head per day as per HSVP norms.

**PUMPING EQUIPMENTS**

It has been proposed to install pumping set as described with standby of equal capacity. Standby electric power requirement is added to the main DG Sets in case of electricity failure and it shall be either provided separately or added to the capacity of main generator.

**SEWERAGE SCHEME**

Sewer line from proposed development area will be connecting to propose external Sewage Treatment Plant (STP) Capacity ~~180~~ <sup>185</sup> KLD within the colony and treated water will be used for horticulture & flushing proposed. Excess treated water, if any, will be disposed off to proposed HSVP Master Sewer. The sewerage system has been marked on the respective plans.

Sewer lines have been designed for 3.0 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 (0.75 m/sec) self cleaning velocity. Sewer line up to 250 mm dia has been designed to run half full and above 250 mm dia has been designed to run three fourth full at peak flow. Necessary provision for laying HDPE

DWC 5N8 pipe sewer line, construction of required number of manholes etc. have been made in the estimate. The sewer line has been designed as per Manning's formula.

Necessary design statement for entire sewerage system has been prepared and attached with estimate.

#### STORM WATER DRAINAGE:

We are proposing to lay underground R.C.C pipe drains with required number of MANHOLE for disposal of storm water which will be connecting rain water harvesting system to recharge the aquifer and surplus storm water will be allowed to flow to the HSVP Master drain along the services road. The intensity of rain fall has been taken as  $\frac{1}{4}$ " (6.25mm) per hour and storm water line has been designed as per Manning's formulae.

#### SPECIFICATIONS:

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

##### Roads:

Cost of road has been taken in the estimate.

##### Street Lighting:

Provision for streets lighting has been included.

##### Horticulture:

Estimates and details of plantation, landscaping, signage, etc. has also 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 be **Rs. 407.95 lakhs** including 3% contingencies @ 49% departmental charges, price escalation, unforeseen & admin charges etc.

For M/S ELITES HOMES PVT. LTD

For Elite Homes Pvt. Ltd.



Director/Authorised Signatory

Authorized signatory





# I DESIGN CALCULATION:

## (i) Water requirement Chart

### WATER REQUIREMENT CHART

#### DDJAY -2 (Acres - 5.30625)

S. No.	Description	No. of plot	Occupancy per plot	Total population	Total water requirement per person	Total water requirement	Total Domestic fresh water requirement	Total Flushing water requirement	Total flow into STP (80% of total water requirement)
					Ltr	Ltr			Ltr
<b>1</b>	<b>Water Requirement</b>						65%	35%	
	<b>Residential Plot</b>								
A	No. of plots in Q Block	80	13.5	1080	155.25 150 (135+15%)	167670 162000	108986 105300	58684 56700	134136 129600
B	No. of plots in R Block	20	13.5	270	155.25 150	41918 40500	27247 26325	14671 14175	33534 32400
C	Community Block water requirement @ 25 kl per acres, Community Block area - 0.5043 Acres					12608	8195	4413	10086
D	Commercial Block water requirement @ 32 kl per acres, Community Block area - 0.2016 Acres					6451	4193	2258	5161 5160.96
E	Horticulture requirement (area- 0.37 acre / 1500 sqm x 6ltr./sqm.) <i>0.37 acre x 25kl/Acre</i>					9950 9000	9950 9000	9950 9000	
	<b>Grand Total</b>			<b>1350</b>		<b>238597</b> <b>230559</b>	<b>148621</b> <b>144013</b>	<b>89976</b> <b>86546</b>	<b>182917</b> <b>177247</b>
	<b>Say (in KLD)</b>					<b>231</b> <b>239</b>	<b>145</b> <b>149</b>	<b>-87</b> <b>90</b>	<b>180</b> <b>183</b>

- (i) Total water requirement = 231.00 KLD  
239.00
- Domestic Fresh water requirement = 149.00  
145.00 KLD
- STP treated water (Flushing + Hort) = 87.00 KLD = 90.00  
87.00 KLD
- STP Capacity @ 80% of total water requirement = 183  
177.00 KLD
- Proposed capacity of STP = 180 KLD  
185
- (i) Fire Fighting requirement = 38.73  
146.19 KL
- 100√P = 100√1.35 = 116.19 x 1/3 = 50
- SAY = 117 KL



## II. Summary of UGT & Source of water

S.No	Water Required	Water Req	UGT Cap	Say Source
(i)	Domestic water fresh water (2x75) <i>1/2 day cap. UGT</i>	<del>145</del> <i>149</i>	<del>150</del> <i>150</i>	HSVP
(ii)	Flushing + Horticulture water <i>1/2 day cap. UGT</i>	<del>87</del> <i>90</i>	<del>90</del> <i>90</i>	STP
(iii)	Firefighting water tank	<del>116</del> <i>50</i>	<del>120</del> <i>50</i>	HSVP (one Time)

### PUMPING SYSTEM FOR WATER SUPPLY:

- (A) Total domestic water requirement = *149* ~~150~~ KL.
- (i) Pumping @ 8 hours / day = *149* ~~150~~ / 8 = *18.63* ~~18.75~~ KL/hr.
- = *310.42* ~~312.5~~ lpm
- SAY = *320* ~~350~~ lpm
- = *320* ~~350~~ lpm (1 w+1 s)

### PUMPING SYSTEM FOR WATER SUPPLY:

- (A) Total Flushing water requirement = 90 KL
- (i) Pumping @ 8 hours / day = 90 / 8 = 11.25 KL/hr.
- = 187.5 lpm
- SAY = 200 lpm
- = 200 lpm (1 w+1 s)

### BOOSTING MACHINERY FOR DOMESTIC PUMP

- (ii) Gross working head
- (1) Residual head = 20 meter
- (2) Friction loss = 15 meter
- (3) Static head required = 15 meter
- TOTAL = 50 meter

- (vi) HP = *320* ~~350~~ x 50 = *5.47* ~~5.98~~ HP, SAY = *7.50* ~~10~~ HP / pump
- (vi) HP = *320* ~~350~~ x 50 = 3.42 HP, SAY = 5 HP / pump

It is proposed to provide 2 Nos. pumps of *320* ~~350~~ lpm @ 50 Mtr. Head each (1 Working + 1 Stand by) for Domestic Supply.

It is proposed to provide 2 Nos. pumps of 200 lpm @ 50 Mtr. Head each (1 Working + 1 Stand by) for Flushing Supply.

- (B) Horticulture water requirement =  $\frac{10}{2} = 5$  KL.
- (i) Pumping @ 2 hours / day =  $\frac{10}{2} = 5$  KL/hr.
- SAY = 83.33 lpm
- OR = 85.75 lpm (1W+1S)

#### BOOSTING MACHINERY FOR FLUSHING PUMP

- (ii) Gross working head
- (1) Residual head = 05 meter
- (2) Friction loss = 05 meter
- (3) Static head required = 10 meter
- TOTAL = 20 meter
- (vi) HP =  $\frac{85 \times 20}{75 \times 1.5} = 0.58$  HP, SAY = 1.0 HP

It is proposed to provide 2 Nos. pumps of 25 lpm @ 20 Mtr. Head each (1 Working + 1 Stand by) for Irrigation Supply.

#### CAPACITY OF DG SETS.

S.NO.	EQUIPMENT	QTY	HP	Total HP
-1	TRANSFER PUMPS (Domestic)	1	7.5	7.5
-2	TRANSFER PUMPS (Flushing)	1	5	5
-3	Transfer Pump Horticulture	1	2	2
-4	Street light	1	1	1
	TOTAL			15.5
			0.746	12.68 KW
	In KVA = $24.50 \times 0.746 \times 1.5$	SAY	4.5	15.21 KVA

24.42 KVA  
say 30 KVA

It is proposed to add 15 KVA capacities for above said machinery to the main DG set.




# I. BOREWELLS

Approx. expected yield of one Bore well = 25 KL/ hr. and working for 6 hrs.  
/ Day

a) Total water demand	=	<sup>149</sup> <del>145</del> KLD.
b) Number of Borewell ( <sup>149</sup> <del>145</del> / 25/ 6)	=	1 NOS. ✓
<b>Total Say</b>	=	<b>1 NOS.</b> ✓

For Elite Homes Pvt. Ltd.



Director/Authorised Signatory

Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5, 7A Dharuhera, Dist. REWARI, HARYANA

FINAL ABSTRACT OF COST		5.30625
S.NO	DESCRIPTIONS	AMOUNT (RS.)
<b>PART - A</b>		
SUB WORK NO. I	WATER SUPPLY & FIRE FIGHTING SCHEME	<del>94.00</del> 104.15
SUB WORK NO. II	SEWERAGE SYSTEM	<del>23.84</del> 80.77
SUB WORK NO. III	STORM WATER DRAINAGE	<del>45.27</del> 59.85
<b>TOTAL OF PART A</b>		<del>163.11</del>
<b>PART - B</b>		
SUB WORK NO. IV	ROAD & FOOT PATHS	<del>28.08</del> 52.76
SUB WORK NO. V	PLANTATION & ROAD SIDE TREES	<del>1.18</del> 1.72
<b>TOTAL OF PART B</b>		<del>29.26</del>
<b>PART - C</b>		
SUB WORK NO. VI	STREET LIGHTING	<del>9.74</del> 20.37
SUB WORK NO. VII	MTC. CHARGES INCL RESURFACING OF ROADS AFTER 1st 5 YEARS AND 2nd YEAR OF MTC (AS PER HUDA NORMS)	<del>37.23</del> 88.33
<b>TOTAL OF PART C</b>		<del>46.97</del>
<b>TOTAL OF A+B+C</b>		<del>239.34</del>
<b>TOTAL</b>		<del>239.34</del> 407.95
<b>SAY IN LAKHS</b>		<del>239.00</del>
<b>407.95 / 5.30625 = 76.88</b>		
Deviation of Cost	45.041225	Lakhs Per Acre
<del>Say</del>	<del>45.04</del>	<del>Lakhs Per Acre</del>

Checked subject to comments in forwarding letter No. ....

Dt. .... and notes attached with the estimate

For Elite Homes Pvt. Ltd.

Director/Authorised Signatory

Additional Chief Engineer (HQ)  
for Chief Engineer J, HSVP  
Ranchkula

Superintending Engineer,  
HSVP Circle, Gurugram

Executive Engineer  
HSVP Division Rewari

Director  
Town & Country Planning  
Haryana, Chandigarh

Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA

SUB WORK No. 1		Water Supply & Fire Fighting scheme
Sub Head No. 01	Source of Temporary arrangement (Borewell)	26.79 33.74
Sub Head No. 02	Water Supply & <del>Fire Fighting</del> Pumping Machinery	10.90 14.96
Sub Head No. 03	Water distribution lines	17.63 25.71
<del>Sub Head No. 04</del>	<del>Rising Main From HSVP</del>	<del>0.77</del>
Sub Head No. 05	FIRE FIGHTING	0.58 0.12
Sub Head No. 06	Water supply Irrigation System	11.96 18.36
TOTAL		67.86 93.66
SAY (IN LAKHS)		Add 3% Contingency charge 2.04 94.00

Add 49% deprec. charges → 69.90  
34.25  
104.15

For Elite Homes Pvt. Ltd.

Director/Authorised Signatory





Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA					
Sub -Work No. 1 Sub -Head No. 01		Source of Temporary arrangement (Bore well)			
S.NO	Description	Unit	Qty	Rate	Amount
1	Boring and installing 510 mm i/d borewell with reverse rotary rig complete with pipe and strainer to a depth of about 80 metre in all respect including cost of Valve chamber & pump chamber.	Each	1	<del>10,00,000/-</del> 7,00,000	<del>10,00,000/-</del> 7,00,000.00
2	Provision of construction of tube well chamber of standard size 1.5 x 1.5 x 1.5 M	Each	1	1,00,000	1,00,000.00
3	Providing Submersible pumps for the following.				
(a)	Tubewell pumps				
(i)	430 LPM AT 100 m Head	Each	1	75,000	75,000.00
4	Providing and fixing Ball / Butterfly valve.				
4.1	65 mm dia.	Each	1	3,500	3,500.00
4.2	150 mm dia.	Each		6,500	-
5	UGT for fresh domestic water & fire fighting (150+120)= 270KL capacity compartments.	KL	<del>150</del> 270	<del>4500</del> 3,500.00	<del>675,000/-</del> 9,45,000.00
6	Construction of boundary wall gate around the tube well site	LS		<del>L.S.</del> 2,00,000.00	2,00,000.00
7	Provision of footpath hedges and lawns at tubewell	LS		<del>L.S.</del> 75,000.00	75,000.00
8	Provision for carriage of materials and other unforeseen items.	LS		<del>L.S.</del> 50,000	50,000.00
9	Provision for construction of staff quarters for MTC staff.	LS		<del>L.S.</del> 50,000.00	<del>2,00,000/-</del> 50,000.00
10.	const of boosting chamber as per PH requirement.		(P)	<del>L.S.</del>	<del>3,00,000/-</del>
Total Abstract of cost for Subwork No. 1					<del>26,78,500/-</del> 21,98,500.00
SAY IN LAKH					26.79 21.99
Add 3% contingencies & PH Charges					0.66
TOTAL					22.64
Add 49% Departmental charges, price escalation,					11.10
TOTAL					33.74

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

Sub -Work No. 1 Sub -Head No. 02		Water Supply Pumping Machinery			
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for diesel engine generator set each for standby arrangements for T.W. & Booster pump complete with 15 KVA capacities. <i>e. Rs 19,000/- Per KVA</i>	LS	1	<i>L.S.</i> 2,00,000	<i>3,00,000/-</i> 2,00,000.00
2	Providing Boosting pumps for the following.				
(a)	DOMESTIC PUMP				
(i)	<i>250</i> lpm & 50 m Head (1 working+1 Standby) <i>7.5 HP</i>	Each	2	1,20,000	2,40,000.00
(b)	FLUSHING PUMP				
(i)	200 lpm & 50 m Head (1 working+1 Standby) <i>5.0 HP</i>	Each	2	<i>1,00,000/-</i> 50,000	<i>2,00,000/-</i> 1,00,000.00
(D)	IRRIGATION PUMP				
(i)	<i>250</i> lpm & 50 m Head <i>2.0 HP</i>	Each	2	<i>50,000/-</i> 1,00,000	<i>1,00,000/-</i> 2,00,000.00
3	Provision for chlorination plant complete.	Each	1	<i>1.5</i> 35,000	<i>50,000/-</i> 35,000.00
4	Provision for making foundations and erection of pumping machinery.	LS		50,000	50,000.00
5	Provision for pipes, valves and specials inside the pump chamber and boosting chamber.	LS		50,000	50,000.00
6	Provision for electric service connection including electrical fitting for tube-well and boosting chamber etc. (lumpsum) including cost of transformor.	LS		50,000	50,000.00
7	Provision for carriage of material and other unforeseen items etc.	LS		50,000	50,000.00
Total Abstract of cost for Subwork No. 1					<i>1,09,000/-</i> 9,75,000.00
SAY IN LAKH					<i>10.90</i> 9.75
Add 3% contingencies & PH Charges					<i>0.29</i>
TOTAL					<i>10.04</i>
Add 49% Departmental charges, price escalation,					<i>4.92</i>
TOTAL					<i>14.96</i>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory





**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

Sub-Work No. 1 Sub-Head No. 03		Water distribution lines <i>2 Rising Main</i>			
S NO	Description	Unit	Qty	Rate	Amount
1	Providing, laying, jointing and testing DI pipe lines including cost of excavation etc. complete in all respects.				
a	100 mm dia.	Mtr	1150	1,250	14,37,500.00
2	Providing, laying, jointing and testing GI pipe lines including cost of excavation etc. complete in all respects.				
a	65 mm dia.	Mtr	<i>15</i> <del>16</del>	<i>850</i> <del>900</del>	<i>12750/-</i> <del>14,400.00</del>
3	Providing and fixing sluice / Butterfly valve including cost of surface box and masonry chamber etc. completed in all respects.				
(a)	100 mm dia.	Each	7	<i>12000/-</i> <del>7,500</del>	<i>84000/-</i> <del>52,500.00</del>
(b)	80 mm dia.	Each		10,000	
(c)	65 mm dia.	Each	1	9,000	9,000.00
4	Providing and fixing ball valves including cost of surface boxes and masonry chambers etc. complete in all respect.				
a	20 mm dia.	LS		50,000	
b	25 mm dia.	LS		1,00,000	
3	Providing and fixing G.I dead end plug with thearded joint as required painting with one coat of solvent based rubberised asphaltic primer and complete as per standard design ( External work)				
3.1	25 mm dia	Each	0	80	
5	Providing and fixing air valves and scour valves including cost of brick masonry chamber complete.	Each	4	<i>5000/-</i> <del>3,000</del>	<i>20,000/-</i> <del>12,000.00</del>
6	Provision of cutting of roads & making good to its original condition and <del>carriage of material etc and other unforeseen</del>	LS		<i>L.S</i>	<i>50,000/-</i> <del>1,00,000.00</del>
7	Provision for carriage of material and other unforeseen items etc.	LS		<i>L.S</i> 50,000	<i>50,000.00</i>
<i>⑧ Provision for water connection with main H.S.V.P. line.</i>				<i>L.S</i>	<i>1,00,000/-</i>
Total Abstract of cost for subwork No. 1				<i>1763250/-</i>	<i>16,75,400.00</i>
SAY IN LAKH					<i>17.63</i> 16.75
Add 3% contingencies & P.H. Charges					<i>0.50</i>
TOTAL					<i>17.26</i>
Add 49% Departmental charges, price escalation,					<i>8.46</i>
TOTAL					<i>25.71</i>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory





Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA					
Sub -Work No. 1 Sub -Head No. 04		Rising Main From HSVP			
S NO	Description	Unit	Qty	Rate	Amount
1	Provision for rising main from HUDA main to DGT 100mm DI pipe	LS		50,000	50,000.00
Total Abstract of cost for subwork No. 1					50,000.00
SAY IN LAKH					0.50
Add 3% contingencies & PH Charges					0.02
TOTAL					0.52
Add 49% Departmental charges, price escalation,					0.25
TOTAL					0.77

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

Sub -Work No. 1 Sub -Head No. 05 <b>(4)</b>		FIRE FIGHTING			
		<b>unit</b>	<b>qty</b>	<b>Rate</b>	<b>Amount</b>
1	Providing and fixing stainless steel fire brigade suction for fire tank complete with companion flange as per table "E" nuts, bolts, gasket etc.				
(a)	150 mm	EACH	1	7500	7,500.00
<b>(2)</b>	<b>Prov. &amp; fixing fire hydrants with accessories 4.5</b>				<b>59,900/-</b>
	Total Abstract of cost for Subwork No. 1				<b>57,500/-</b>
	SAY IN LAKH				<b>0.58 0.075</b>
	Add 3% contingencies & PH Charges				<b>0.00</b>
	<b>TOTAL</b>				<b>0.08</b>
	Add 49% Departmental charges, price escalation,				<b>0.04</b>
	<b>TOTAL</b>				<b>0.12</b>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA					
Sub -Work No. 1 Sub -Head No. 06-5		Water supply Flushing & Irrigation System			
S. NO	Description	Unit	Qty	Rate	Amount
1	Providing, Laying, Jointing and testing uPVC {6 kg/cm <sup>2</sup> pressure rating pipe line confirming to IS : 4985 including cost of excavation etc. complete in all respect. (Flushing & Garden Hydrant Line)				
(a)	110 mm dia.	Mtr	1000	1000	10,00,000/-
1A	Providing, laying, jointing and testing GI pipe lines including cost of excavation etc. complete in all respects.				
(a)	20 mm dia.	Mtr	20	230	2,300.00
(b)	25 mm dia.	Mtr	65	380	24,700.00
(c)	32 mm dia.	Mtr	0	450	-
2	Providing and fixing ball valves including cost of surface boxes and masonry chambers etc. complete in all respect.				
(a)	20 mm dia	Meter	3	550	1,650.00
(b)	25 mm dia	Meter	0	650	-
3	Providing and fixing G.I dead end plug with theaded joint as required painting with one coat of solvent based rubberised asphaltic primer and complete as per standard design. ( External work)				
3.1	20 mm dia	Each	0	80	-
4	Providing and fixing air release valve	Each	6	3000	18,000.00
5	Provision for carriage of Material and other unforeseen. Items.	LS	5	12000	60,000.00
6	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen	LS			10,000.00
Total Abstract of cost for Subwork No. 1					1196150/-
SAY IN LAKH					11.96
Add 3% contingencies & P.H. Charges					0.36
TOTAL					12.33
Add 49% Departmental charges, price escalation,					6.04
TOTAL					18.36

For Elite Homes Pvt. Ltd.

Director/Authorised Signatory





**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

Sub-Work No. II		Sewerages System			
S. NO	Description	Unit	Qty	Rate	Amount
1	Providing, laying, jointing, testing and commissioning of HDPE Double Wall Corrugated Pipes (SN-8 Pipe ) including all fitting As per IS16098 and including testing by smoke testing method complete as required in all respect.				
1.1	200 mm diameter	M	960	1600/- 520	1536000/- 4,99,200.00
1.2	250 mm diameter	M	152	2000/- 866	304000/- 1,31,632.00
2	Providing, laying, jointing and testing DI pipe lines including cost of excavation etc. complete in all respects.				
a	100 mm dia.	Mtr	50	1,250	62,500.00
3	Provision for lighting and watching.	LS		L.S 25,000	50,000/- 25,000.00
4	Provision for providing oblique junction	LS		L.S 25,000	50,000/- 25,000.00
5	Provision of making connection from HUDA	LS		L.S 30,000	1,00,000/- 30,000.00
6	Providing of temporary timbering	LS		L.S 50,000	50,000.00
7	Providing STP of 105 KL including cost of flush tank of 50 KL.	KL	185 180	16000/- 3,500	29,60,000/- 6,30,000.00
8	Provision for vent shafts at suitable places as per public health requirement	LS		L.S 50,000	1,00,000/- 50,000.00
9	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen.	LS			50,000.00
<b>Total Abstract of cost for Subwork No. II</b>					<b>5262500/- 15,53,332.00</b>
<b>SAY IN LAKH</b>					<b>52.63 15.53</b>
Add 3% contingencies & PH Charges					<b>1.58 0.47</b>
<b>TOTAL</b>					<b>54.21 16.00</b>
Add 49% Departmental charges, price escalation,					<b>26.56 7.84</b>
<b>TOTAL</b>					<b>80.77 23.84</b>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

S.NO	Sub -Work No. III			Storm Water System	
S. NO	Description	Unit	Qty	Rate	Amount
1	Providing, lowering, laying & jointing 400 mm RCC NP3 class pipes and specials into trenches including cost of excavation, cost of manholes etc. complete in all respects.				
(a)	400 mm dia.	M	1040	2,500	26,00,000.00
2	Provision for rainwater harvesting arrangements as per calculation	LS	<del>4</del> 1	2,50,000	<del>10,00,000/-</del> 2,50,000.00
3	Provision of road gully chamber with pipe connection	LS	0	<del>L.S</del> 3,500	<del>1,00,000/-</del>
4	Provision for lighting and watching.	LS		<del>L.S</del> 25,000	<del>50,000/-</del> 25,000.00
5	Provision for connection with HUDA Storm water main line 1 no.	LS		<del>L.S</del> 25,000	<del>1,00,000/-</del> 25,000.00
6	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen	LS			50,000.00
	<b>Total Abstract of cost for Subwork No. III</b>				<del>39,00,000/-</del> 29,50,000.00
	<b>SAY IN LAKH</b>				<del>39.00</del> 29.50
	Add 3% contingencies & PH Charges				<del>1.17</del> 0.89
	<b>TOTAL</b>				<del>40.17</del> 30.39
	Add 49% Departmental charges, price escalation,				<del>19.68</del> 14.89
	<b>TOTAL</b>				<del>59.85</del> 45.27

For Elite Homes Pvt. Ltd.

*Gilbert*  
Director/Authorised Signatory





**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

S.NO	Sub -Work No.IV			Roads and Footpaths	
	ROAD NAME		Length (M)	Metalled portion	Area in sqmt.
(a)	9 M WIDE		200.0	5.5	1,100.00
(b)	12 M WIDE		10.0	6.0	60.00
(c)	24 M WIDE		76.6	14.0	92.38
(c)	Total Length of Road		216.6		1,252.38
	Total Area of Road =			1,252.38	m2
	Add 5% for curve =			62.62	m2
	Total Area			1,315.00	m2
	SAY			1,315.00	m2 ✓
	Kerb and Channels:	216.6	5% curves	10.83	227.43
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for leveling and earth filling as Per site condition.	Acre	5.30625	150000	7,95,937.50
1	The necessary provision for construction of roads parking etc has been made in the estimate according to the HUDA norms the following specification has been proposed.				
2	Construction of roads by providing granular sub base 200 mm as per MORT & H specs conforming to clause 401 grading -II 400.1				
(i)	Providing and laying spreading & compacting hand broken/ crushed stone aggregate to wet mix conforming to physical requirement laid in 450 of MORT & H specification in two layers (Compacting to 200mm GSM +250mm WMM ) by taking material 1:32 times of the (thickness of the layer) including premixing of material with water in mechanical mixer				
(ii)	50mm thick B.M- DBM				
(iii)	20mm thick mix seal surfacing 25mm B.C			1200/-	1578000/-
(iv)	Sqm		1315.00	450	5,91,750.00
3	Provision for kerbs and channels		434	600/-	260400/-
(a)	Metre 217 X 2 = 434 Mtr		227.43	250	56,857.14
4	Provision of guide maps and indicators	LS		L.S	50,000/-
				20000	20,000.00
5	Provision of foot path on 9m wide road on both side	15651		750/-	485250/-
	(217 X 1.50) X 2 = 651 Sqm	Sqm		100000	1,00,000.00

with 80mm thick interlocking tiles/paver blocks in cement concrete

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory





Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA					
6	Provision for plot indicators	LS		<del>L.S</del> <del>10000</del>	10,000.00 ✓
7	provision for demarcating burgees	LS		<del>L.S</del> <del>30000</del>	30,000.00 ✓
8	Provision for traffic arrangement	LS		<del>L.S</del> <del>100000</del>	1,00,000.00 ✓
9	Provision for making approach and pavement to building.	LS		<del>L.S</del> <del>100000</del>	1,00,000.00 ✓
10	Provision for carriage of materials & other unforeseen items.	LS		<del>L.S</del> <del>25000</del>	25,000.00 ✓
Total Abstract of cost for Subwork No. IV				<del>34375881</del> <del>18,29,502.14</del>	
SAY IN LAKHS				<del>34.38</del>	<del>18.30</del>
Add 3% contingencies & PH Charges				<del>1.03</del>	<del>0.55</del>
TOTAL				<del>35.41</del>	<del>18.84</del>
Add 49% Departmental charges, price escalation,				<del>17.35</del>	<del>9.23</del>
TOTAL				<del>52.76</del>	<del>28.08</del>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA					
Sub -Work No.V	Plantation and road side trees				
	Description	Unit	Qty	Rate	Amount
S.NO	Development of lawn area				
1	Trenching the ordinary soil up to dept of 60cm including removal and stacking serviceable material and disposing of by spreading and leveling within a lead of 50m and making up the trenches area to proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure.				
(a)	Rough dressing of turfed area				
(b)	Grassing with "Doob Grass" including watering and IV. Maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in rows 7.5 m Apart in either direction <del>0.37 @ 100000 per acre.</del> <b>0.3980 Acre</b>	Acre	<b>0.3980</b> <del>0.37</del>	<b>150,000/-</b> <del>1,00,000.00</del>	<b>59700/-</b> <del>37,000.00</del>
(c)	Providing tress, guards and planting tress along road at 12 m interval Total road length = 550Mtr. <b>217 Mtr</b> No of Tress = $(275/12)*2 = 46$ <b>36</b> Say <b>40-50 Nos.</b> <u>Cost Analysis of Planting Trees</u> Excavation = <b>50</b> 50.00 each Manure = <b>90</b> 50.00 each Tree plants = <b>150</b> 200.00 each Tree guards = <b>100</b> 500.00 each Total Cost = <b>1500</b> Rs. 800.00 per tree	Each	<b>40</b> <del>50</del>	<b>1300/-</b> <del>800.00</del>	<b>5200/-</b> <del>40,000.00</del>
2	Total Abstract of cost for Subwork No. VI				<b>111700</b> 77,000.00
	SAY IN LAKHS				<b>1.12</b> -0.77-
	Add 3% contingencies & PH Charges				<b>0.03</b> -0.02
	TOTAL				<b>1.15</b> 0.79-
	Add 49% Departmental charges, price escalation,				<b>0.57</b> -0.39
	TOTAL				<b>1.72</b> 1.18-

For Elite Homes Pvt. Ltd.

Director/Authorised Signatory



**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

S.NO	Sub-Work No.VI	Description	Unit	Qty	Street Lighting	
					Rate	Amount
1		Providing Street lighting on roads as per standard specification of HVPN.				
(a)	Acre			5.30625	250,000/-	1326563.1-
					-90,000	4,77,540.00
		<b>Total Abstract of cost for Subwork No. V</b>				<b>1326563</b> 4,77,540.00
		<b>SAY IN LAKHS</b>				<b>13.27</b> 4.78-
		Add 3% contingencies & PH Charges				<b>0.40</b> -0.34
		<b>TOTAL</b>				<b>13.67</b> 4.92-
		Add 49% Departmental charges, price escalation,				<b>6.70</b> -2.41-
		<b>TOTAL</b>				<b>20.37</b> 7.33-
		<b>SAY IN LAKHS</b>				<b>20.37</b> 9.74

For Elite Homes Pvt. Ltd.

*Abhishek*  
Director/Authorised Signatory





**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

Sub -Work No. VII		MTC. Charges & Resurfacing of Roads			
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for MTC charges for water supply, sewerage, storm water drainage, roads, street light and horticulture complete in all respects.				
1.1	Acres		5.30625	7,50,000/-	39,79,688/-
					15,91,800.00
2	Resurfacing of roads after 1st 5 Yrs, 50mm thick B.M & 25 mm thick P. carpet.				
(a)	Sqm	Sqm	1315	600/-	789,000/-
			275.00	400-	1,10,000.00
3	Provision for resurfacing of roads after 10 yrs. by providing 25mm thick premire carpet.				
(a)	Sqm	Sqm	1315	750/-	9,86,250/-
			275.00	450-	1,23,750.00
	<b>Total Abstract of cost for Subwork No. VII</b>				<b>57,54,938/-</b>
					<b>18,25,550.00</b>
	<b>SAY IN LAKHS</b>				<b>57.55 10.26</b>
	Add 3% contingencies & PH Charges				<b>1.73 0.55</b>
	<b>TOTAL</b>				<b>59.28 10.80</b>
	Add 49% Departmental charges, price escalation,				<b>29.05 9.21</b>
	<b>TOTAL</b>				<b>88.33 20.02</b>
	<b>SAY IN LAKHS</b>				<b>88.33 32.23</b>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



**Affordable Residential plotted colony under "DDIAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

**DESIGN CALCULATION FOR DOMESTIC WATER SYSTEM**

S. NO.	Reference line		Number of plot			Popul. (Total No of Persons)	Total Requirement (in LPD)	Total Water Requirement (in LPM)	Dia. (in MM)	Velocity (m/sec)	Length of Line (in Mtr)	(S) Slope of pipe (in m/m)	Head Loss for line Length (in Mtr)	Fitting Loss @ 10% of pipe length (in Mtr)	Total Head Loss (in Mtr)	CUMMULATIVE Head (in Mtr)	Ground Level (in Mtr)	Air Release Valve Nos.
	FROM	TO	SELF	PREVIOUS	TOTAL													
1	UGT	D9	0	100	100	1350	144013	300	100	1.5	5	0.042	0.21	0.021	0.23	53.34	202.56	-
2	D9	D8	4	0	4	54	5265	11	100	1.5	38	0.042	1.60	0.160	1.75	27.43	202.56	1
3	D9	D7	27	69	96	1296	126360	263	100	1.5	93	0.042	3.90	0.390	4.29	25.68	202.56	
4	D7	D6	5	0	5	68	14776	31	100	1.5	125	0.042	5.25	0.525	5.77	5.773	202.56	
5	D7	D5	0	64	64	864	84240	176	100	1.5	51	0.042	2.14	0.214	2.36	15.609	202.56	
6	D5	D4	22	0	22	297	33151	69	100	1.5	287	0.042	12.05	1.205	13.25	13.254	202.56	1
7	D5	D3	0	42	42	567	55283	115	100	1.5	44	0.042	1.85	0.185	2.03	17.549	202.56	
8	D3	D2	22	0	22	297	28958	60	100	1.5	132	0.042	5.54	0.554	6.10	6.096	202.56	1
9	D3	D1	20	0	20	270	26325	55	100	1.5	204	0.042	8.56	0.856	9.42	9.421	202.56	1

For Elite Homes Pvt. Ltd.

*Signature*  
Director/Authorised Signatory

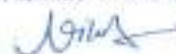
**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

**REWARI MATERIAL STATEMENT OF DOMESTIC WATER LINE**

S. No.	Reference Line		Dia of pipe (mm)	Length of Pipe (m)	DIA OF PIPE (D.I PIPE) 100 mm	DIA OF PIPE (G.I PIPE)			Air Release Valve Nos.
	From	To				65 mm	32 mm	25 mm	
1	UGT	D9	100	5	5	-			-
2	D9	D8	100	38	38	-			1
3	D9	D7	100	93	93	-			0
4	D7	D6	100	125	125	-			0
5	D7	D5	100	51	51	-			0
6	D5	D4	100	287	287	-			1
7	D5	D3	100	44	44	-			0
8	D3	D2	100	132	132	-			1
9	D3	D1	100	204	204	-			1
		<b>TOTAL</b>		<b>979</b>	<b>979</b>	<b>0</b>		<b>0</b>	<b>4</b>

MUNICIPAL WATER SUPPLY									
1	UGT	MUNICIPAL	100	170	170				
2	BOREBALL		65	15		16			
<b>GRAND TOTAL</b>				<b>1164</b>	<b>1149</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>4</b>
<b>OR SAY</b>				<b>1165</b>	<b>1150</b>	<b>16</b>		<b>0</b>	

For Elite Homes Pvt. Ltd.



Director/Authorised Signatory



**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

**DESIGN CALCULATION FOR FLUSHING WATER SYSTEM**

S. NO.	Reference line		Number Of Plot			TOTAL POPULATION	Total Water Requirement.	Total Water Requirement (in LPM)	DIA (in MM)	Velocity m/sec	Length of Line (in Mtr)	(S) Slope of pipe (in m/m)	Head Loss for line Length (in Mtr)	Fitting Loss @ 10% of pipe length (in Mtr)	Total Head Loss (in Mtr)	cumulative head loss (in Mtr)	Ground Level (in Mtr)	Air Release Valve
	From	To	Self	Previous	Total													
1	STP	F11	0	100	100	1350	86546	180	110	1.5	15	0.038	1	0	0.620	29.214	202.560	-
2	F11	F10	0	100	100	1350	70875	148	110	1.5	23	0.038	1	0	0.950	28.594	202.560	-
3	F10	F09	16	0	16	216	11340	24	110	1.5	102	0.038	4	0	4.215	4.215	202.560	1
4	F10	F08	4	80	84	1134	59535	124	110	1.5	104	0.038	4	0	4.297	23.429	202.560	-
5	F08	F07	22	0	22	297	17851	37	110	1.5	135	0.038	5	1	5.578	5.578	202.560	1
6	F08	F06	0	58	58	783	41108	86	110	1.5	44	0.038	2	0	1.818	13.553	202.560	-
7	F06	F05	18	0	18	243	12758	27	110	1.5	121	0.038	5	0	5.000	5.000	202.560	1
8	F06	F04	0	40	40	540	28350	59	110	1.5	43	0.038	2	0	1.777	6.735	202.560	-
9	F04	F03	31	0	31	419	21971	46	110	1.5	120	0.038	5	0	4.959	4.959	202.560	1
10	F04	F02	5	4	9	122	6379	13	110	1.5	69	0.038	3	0	2.851	12.025	202.560	-
11	F02	F01	4	0	4	54	7248	15	110	1.5	222	0.038	8	1	9.173	9.173	202.560	1

For Elite Homes Pvt. Ltd.

  
Director/Authorised Signatory

**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

**MATERIAL STATEMENT OF FLUSHING WATER LINE**

S. No.	Reference Line		Dia of pipe	Length of Pipe	upvc Length of Pipe	G.I Length of Pipe	ARV
	From	To	(mm)	(m)	<del>110</del> <sup>100</sup> mm	20 mm	EACH
1	STP	F11	<del>110</del> <sup>100</sup>	15	15		-
2	F11	F10	<del>110</del> <sup>100</sup>	23	23		-
3	F10	F09	<del>110</del> <sup>100</sup>	102	102		1
4	F10	F08	<del>110</del> <sup>100</sup>	104	104		-
5	F08	F07	<del>110</del> <sup>100</sup>	135	135		1
6	F08	F06	<del>110</del> <sup>100</sup>	44	44		-
7	F06	F05	<del>110</del> <sup>100</sup>	121	121		1
8	F06	F04	<del>110</del> <sup>100</sup>	43	43		-
9	F04	F03	<del>110</del> <sup>100</sup>	120	120		1
10	F04	F02	<del>110</del> <sup>100</sup>	69	69		-
11	F02	F01	<del>110</del> <sup>100</sup>	222	222		1
<b>TOTAL</b>				<b>998</b>	<b>998</b>	<b>0</b>	<b>5</b>
<b>GRAND TOTAL</b>				<b>1000</b>	<b>1000</b>		<b>5</b>
<b>BRANCH PIPE</b>			<b>=</b>	<b>0</b>			

For Elite Homes Pvt. Ltd.

  
Director/Authorised Signatory

Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5, 7A Dharuhera, Dist. REWARI, HARYANA																											
DESIGN CALCULATION FOR SEWERAGE LINE																											
S.No.	Sewerage Line No.		Length(m)	Design of Sewerage System				Population	Sewerage flow @ 80% PCD	Peak Flow(lps)	Peak Flow(m³/d)	Pipe Size (mm)	Pipe Slope (1 in)	Velocity (m/s)	Capacity of pipe(lps)	Fall(m)	Check Capacity Y or N	Ground Level(m)		Invert Level(m)		R/F	Actual velocity (m/s)	Slope(m)	Remarks		
	From	To		Self	Prev.	Total	Other											Start	End	Start	End						
1	903	907	168	4	0	4		54	7452	0.216	18630	200	150	1.007	15.831	1.110	OK	0.00	0.00	0.600	1.792	0.01	0.30	0.00	0.00	1.792	II
2	907	903	74	2	0	2	COMMUNITY	27	3726	0.108	9315	200	150	1.007	15.831	0.493	OK	0.00	0.00	1.700	2.213	0.01	0.28	0.00	0.00	2.213	II
3	903	906	57	3	2	5		68	9315	0.270	23087.5	200	150	1.007	15.831	0.380	OK	0.00	0.00	2.213	2.593	0.01	0.30	0.00	0.00	2.593	II
4	904	905	54	9	0	9		132	18767	0.485	42117.5	200	150	1.007	15.831	0.360	OK	0.00	0.00	0.602	0.962	0.01	0.40	0.00	0.00	0.962	II
5	905	906	67	21	8	30		405	55800	1.617	136725	200	150	1.007	15.831	0.447	OK	0.00	0.00	0.960	2.407	0.01	0.35	0.00	0.00	2.407	CI
6	906	908	45	0	44	44		594	81972	2.572	209340	200	150	1.007	15.831	0.300	OK	0.00	0.00	2.213	2.513	0.01	0.30	0.00	0.00	2.513	II
7	907	908	121	18	4	22	COMMERCIAL	297	42986	1.186	102465	200	150	1.007	15.831	0.857	OK	0.00	0.00	0.600	1.407	0.01	0.30	0.00	0.00	1.407	II
8	908	911	43	0	66	66		891	372958	3.558	307395	200	150	1.007	15.831	0.287	OK	0.00	0.00	2.513	2.800	0.01	0.30	0.00	0.00	2.800	II
9	911	912	84	14	0	14		189	26982	0.765	65205	200	150	1.007	15.831	0.589	OK	0.00	0.00	0.913	2.473	0.01	0.40	0.00	0.00	2.473	CI
10	912	913	107	4	80	84		1134	156492	4.528	391230	200	150	1.012	24.838	0.530	OK	0.00	0.00	2.800	3.310	0.01	0.63	0.00	0.00	3.310	II
11	913	914	47	8	0	8		108	14904	0.431	37260	200	150	1.007	15.831	0.313	OK	0.00	0.00	0.600	0.913	0.01	0.30	0.00	0.00	0.913	II
12	914	915	53	8	0	16		216	29408	0.863	74510	200	150	1.007	15.831	0.333	OK	0.00	0.00	0.913	1.267	0.01	0.46	0.00	0.00	1.267	CI
13	915	916	39	0	102	102		1350	386300	5.391	465750	200	150	1.012	24.838	0.195	OK	0.00	0.00	3.310	3.505	0.01	0.67	0.00	0.00	3.505	II
14	916	917	30	0	100	100		1350	386300	5.391	465750	200	150	1.012	24.838	0.090	OK	0.00	0.00	3.505	3.585	0.01	0.67	0.00	0.00	3.585	II

For Elite Homes Pvt. Ltd.

*Agnes*  
Director/Authorised Signatory





**Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at  
SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA**

**MATERIAL STATEMENT OF SEWER WATER LINES**

S.No.	Sewer Line No.		Dia of Pipe (mm)	Length of pipe	Length of line in mtr.		
					150 mm	200 mm	250 mm
	FROM	TO			HDPE DWC Pipe	HDPE DWC Pipe	HDPE DWC Pipe
1	S01	S07	200	168	-	168	-
2	S02	S03	200	227	-	227	-
3	S04	S05	200	54	-	54	-
3	S05	S06	200	67	-	67	-
4	S06	S08	200	45	-	45	-
6	S07	S08	200	121	-	121	-
6	S08	S11	200	43	-	43	-
7	S09	S10	200	47	-	47	-
9	S10	S11	200	84	-	84	-
9	S11	S14	250	102	-	-	102
10	S12	S13	200	47	-	47	-
12	S13	S14	200	53	-	53	-
12	S14	S15	250	39	-	-	39
13	S15	STP	250	10	-	-	10
<b>TOTAL</b>				<b>1107</b>	<b>0</b>	<b>956</b>	<b>151</b>
<b>GRAND TOTAL</b>				<b>1112</b>	<b>0</b>	<b>960</b>	<b>152</b>
Branch Pipe			=	0			
By Pass Line(DI PIPE)			100 Dia.	=	50		

For Elite Homes Pvt. Ltd.

*Agilus*  
Director/Authorised Signatory



Affordable Residential plotted colony under "DDIAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA																					
DESIGN CALCULATION FOR STORM LINE																					
SL. NO.	NAME OF THE LINE		AREA TO BE SERVED IN ACRES			DISCHARGE @ 1/4" RAIN FALL	FINAL DISCHARGE	SIZE OF PIPE DRAIN (IN MM)	VELOCITY (in m/sec)	DISCHARGE CAPACITY	CHECK	LENGTH OF PIPE	SLOPE	FALL IN METERS	GROUND LEVEL		INVERT LEVEL		DEPTH OF PIPE AT	AVERAGE DEPTH OF PIPE	REMARKS
	FROM	TO	SELF	PREVIOUS	TOTAL	(in M3/sec)	(in LPS)	(in mm)	(in m/sec)	(in LPS)		(in mtrs.)	(in mtrs.)	(in mtrs.)	U/Fnd	(in mtrs.)	U/Fnd	(in mtrs.)	U/Fnd	(in mtrs.)	
1	SW01	SW03	0.79	0.00	0.79	0.00555	5.6	400	0.78	98.21	OK	738	450	0.53	0.00	0.900	1.429	0.90	1.43	1.76	CL
2	SW02	SW03	0.86	0.00	0.86	0.00608	6.1	400	0.78	98.21	OK	171	450	0.36	0.00	0.900	1.280	0.90	1.29	1.59	IL
3	SW03	SW07	0.25	1.66	1.90	0.01336	13.4	400	0.78	98.21	OK	49	450	0.11	0.00	0.00	1.280	1.28	1.19	1.13	IL
4	SW04	SW05	0.79	0.00	0.79	0.00555	5.6	400	0.78	98.21	OK	112	450	0.25	0.00	0.00	1.389	1.39	1.66	1.51	IL
5	SW05	SW09	0.28	0.79	1.07	0.00792	7.5	400	0.78	98.21	OK	60	450	0.13	0.00	0.00	1.031	0.90	1.03	0.97	IL
6	SW06	SW07	0.74	0.00	0.74	0.00521	5.2	400	0.78	98.21	OK	109	450	0.24	0.00	0.00	0.900	0.90	1.14	1.07	CL
7	SW07	SW08	0.79	3.71	4.50	0.03164	31.6	400	0.78	98.21	OK	128	450	0.28	0.00	0.00	1.031	1.03	1.32	1.18	CL
8	SW08	SW09	0.79	4.50	5.30	0.03720	37.2	400	0.78	98.21	OK	145	450	0.32	0.00	0.00	1.638	1.64	1.96	1.80	IL
9	SW09	TO DRAIN	0.00	5.30	5.30	0.03720	37.2	400	0.78	98.21	OK	25.00	450	0.06	0.00	0.00	1.960	1.96	2.02	1.99	IL

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A Dharuhera, Dist. REWARI, HARYANA

**MATERIAL STATEMENT OF STORM WATER LINES**

S.No	Line No.		Dia of Pipe (mm)	Length of pipe	Length of line In mtr.	
	FROM	TOTAL			400 mm	Branch Pipe (250 mm)
1	SW01	SW03	400	238	238	
2	SW02	SW03	400	171	171	
3	SW03	SW07	400	49	49	
4	SW04	SW05	400	112	112	
5	SW05	SW06	400	60	60	
6	SW06	SW07	400	109	109	
7	SW07	SW08	400	128	128	
8	SW08	SW09	400	145	145	
9	SW09	TO DRAIN	400	25	25	
		<b>TOTAL</b>		<b>1037</b>	<b>1037</b>	
		<b>SAY</b>		<b>1040</b>	<b>1040</b>	

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory





Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7  
Dharuhera, Dist. REWARI, HARYANA

**MATERIAL STATEMENT FOR ROAD**

S. No.	Road Name (m)		Road Length (m)	9 M WIDE	12 M WIDE	24 M WIDE	Metal Portion (m)	Area (sqm)
	FROM	TO						
1	R1	R2	120	120			5.5	660.0
2	R3	R4	31	31			5.5	170.5
3	R5	R6	10		10		6	60.0
4	R7	R8	12	12			5.5	66.0
5	R9	R10	12	12			5.5	66.0
5	R11	R12	12	12			5.5	66.0
5	R13	R14	12	12			5.5	66.0
6	R15	R16	7			6.6	14	92.4
<b>Total Length</b>			<b>216</b>	<b>199</b>	<b>10</b>	<b>6.6</b>		<b>1247</b>
<b>SAY</b>			<b>216</b>	<b>200</b>	<b>10</b>	<b>7</b>		<b>1250</b>

For Elite Homes Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory



Affordable Residential plotted colony under "DDJAY 2016" on land measuring 5.30625 Acre situated at SECTOR-5,7A  
Dharuhera, Dist. REWARI, HARYANA

**MATERIAL STATEMENT FOR GARDEN HYDRANT**

S. No.	Reference Line	Pipe Length (m)	upvc pipe length			G.I Pipe
			25 MM OD	32 MM OD	50 MM OD	
1	GH-1 TO FLUSHING LINE	35	35			<del>2</del> 6
2	GH-2 TO FLUSHING LINE	5	5			<del>2</del> 6
3	GH-3 TO FLUSHING LINE	24	24			<del>2</del> 6
	<b>TOTAL</b>	<b>64</b>	<b>64</b>	<b>0</b>	<b>0</b>	<del>6</del> 18
	<b>SAY</b>	<b>65</b>	<b>65</b>	<b>0</b>	<b>0</b>	<del>10</del> 20
	<b>GH</b>	<b>3</b>				

For Elite Homes Pvt. Ltd.

*[Signature]*

Director/Authorised Signatory

