

**M/s TULA REALTOR PVT. LTD. DDJAY PLOTTING IN  
SECTOR -1, PATAUDI, GURUGRAM, HARYANA.**

**EXTERNAL SERVICE ESTIMATE**

**ARCHITECT**

**DAULAT AND PUNEET ARCHITECTS LLP.**

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ESTIMATE FOR PROVIDING EXTERNAL DEVELOPMENT WORKS FOR PROPOSED DEEN DAAL JAN AWAS YOJNA PLOTTED COLONY (DDJAY) PLAN OF AREA MEASURING 19.1750 ACRES FALLING WITHIN SECTOR-1, TEHSIL-PATAUDI, DISTT-GURUGRAM. BEING DEVELOPED BY TULA REALTORS PVT. LTD.

## REPORT

**Pataudi** is a town, a tehsil and one of the 4 sub-divisions of Gurugram district, in the Indian state of Haryana, within the boundaries of the National Capital Region of India. It is located 28 km (17.4 mi) southwest of Gurugram city.

The small princely state Pataudi State was formed in 1804 by East India Company with 40 villages including Pataudi village (as it was then) as reward to Faiz Talab Khan a Pashtun of the Barech tribe for aiding the Company against the Maratha Empire during the Second Anglo-Maratha War and the English made Faiz Talab Khan Nawab of Pataudi. It was subsumed into Union of India in 1947.

As of 2001 India census, Pataudi had a population of 16,064. Males constitute 53% of the population and females 47%. Pataudi has an average literacy rate of 57%, lower than the national average of 59.5%: male literacy is 65%, and female literacy is 48%. In Pataudi, 17% of the population is under 6 years of age Their main occupation is farming. Rao Kanwar Singh Yadav (father of Krishan Lal Yadav and Ram Avtar Yadav) the famous freedom fighter of Quni Daultabad village is also from Pataudi.

### WATER SUPPLY

HSVP water supply is expected to be provided on main sector roads in future. At present Tube wells are proposed to cater the potable water demand. It has been purpose to construct underground tanks of capacity as per attached details and at location for domestic purpose and for fire protection. Flushing and Horticulture water tank will be constructed as part of STP. The underground domestic tanks will be fed from HSVP supply, from there water pump out to each plot. Flushing water and Irrigation water demand will be met from treated effluent Sewerage Treatment Plant. The water supply system has been designed as per the Hazen William formula.

### DESIGN

The scheme has been designed for population considering 13.5 person for each plot. The rate of water head/day has been taken as ~~172.5~~ liters per head per day HSVP norms.  
*155.25*

### PUMPING EQUIPMENTS

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

### SEWERAGE SCHEME

Sewer line from proposed development will be connecting to a centralized Sewage treatment plant located the site with a bye-pass line to HSVP sewer to dispose off the surplus water from STP. The sewerage system been marked on the respective plans.

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Sewer lines have been designed for three times average D.W.F in relation to water supply demand. It has assumed that about 80% of the domestic & flushing water supply shall find its way into the proposed sewer lines shall be laid to a gradient maintaining minimum 2.46 ft./sec self-cleaning velocity. Sewer line up to 40 Dia has been designed to run half full at peak Necessary provision for laying S.W./RCC pipe sewer line, construction of required number of manholes etc. been made in the estimate.

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

#### **STORM WATER DRAINAGE**

We proposed to lay underground R.C.C pipe drains with required number of catch basins, manholes and rainwater recharge pits with over flow to the proposed HSVP storm drain on Sector Road. The intensity of rain fall has been taken as  $1/4$ " per hour. R.C.C storm water line will be designed as per Manning's formula.

#### **SPECIFICATIONS**

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

#### **ROADS**

Estimate of Road is prepared as per revised specifications adopted by HSVP.

#### **STREET LIGHTING**

Provision for street lighting also has been made

#### **PLANTATION**

Estimates of plantation, landscaping, signage, etc., have been include

#### **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 be Rs. 1929.14 Lacs only Including 3% Contingencies and 49% Departmental Charges, price escalation, unforeseen, Admin. Charges.

1989.06

For: M/S TULA REALTORS PVT.LTP.

Authorized Signatory

For TULA REALTOR PVT. LTD.

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हरियाणा शहरी विकास प्राधिकरण

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

CE-I No. 86711  
Dated: 05.04.2024  
**Annexure-A**

**SUB:- Approval of service plan estimate to set up affordable plotted colony under Deen Dayal Jan Awas Yojna-2016 over an area measuring 19.1750 acres (License no. 32 of 2024 dated 28.02.2024) Sector-1, Pataudi, Distt. Gurugram being developed by M/s Tula Realtor Pvt. Ltd. in collaboration with Dagar Hospitality and Infrastructure Pvt. Ltd. and others.**

**Technical note and comments:-**

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

PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-1, TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT: FINAL ABSTRACT OF COST

		Amount in Rs. Lacs
SUB WORK NO.I	WATER SUPPLY SCHEME	341.56 399.90
SUB WORK NO. II	SEWERAGE SCHEME	288.76 285.34
SUB WORK NO.III	STORM WATER DRAINAGE	223.41 ✓
SUB WORK NO.IV	ROADS & FOOT PATHS	187.64 483.45
SUB WORK NO.V	STREET LIGHTING	73.57
SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	15.13 - 15.73
SUB WORK NO. VII	MTC CHARGES RESURFACING OF ROADS	499.11 507.66
	TOTAL	1929.11 1989.66

TOTAL : (Rupees Nineteen Crores Twenty Nine Lacs Fourteen Thousand Only)/-

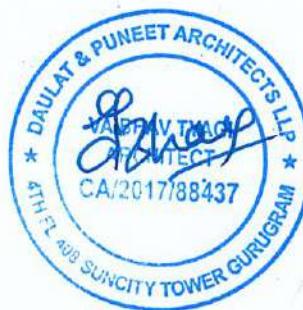
1989.66 /as

Cost Per Acre = 1929.11 / 19.17500 = 100.607 Lakh / Acre.

per ft 103.73

AUTHORISED SIGNATORY

Executive Engineer  
HSVP Division No. IV  
Gurugram



Rajeshwar Singh  
Superintendent Engineer  
HSE, Circle-II, Gurugram

Checked subject to Comments  
In forwarding letter No. 867.11

Dt. 0.5.04.2024 and notes

Attached with the estimate

For TULA REALTOR PVT. LTD.

Authorised Signatory

Director  
Town & Country Planning  
Haryana, Chandigarh

Executive Engineer (M)  
for Chief Engineer-I  
HSVP, Panchkula

SUB WORK No. 1 (Abstract of Cost)		Water Supply & Fire Fighting	
1	Sub Head No. 01	Head Works	Rs.79,65,640 94.90 lacs
2	Sub Head No. 02	Pumping Machinery	Rs.72,77,500 90.50
3	Sub Head No. 03	Domestic Water Supply Distribution	Rs.33,61,800 35.67
4	Sub Head No. 04	Flushing & Irrigation System	Rs.36,50,600 39.60
		TOTAL	Rs.222,55,540 260.57
		Add 3% contingencies & PH Charges	Rs.6,67,666.20 7.82
		TOTAL	Rs.229,23,206 268.39
		Add 49% Departmental charges + Price escalation	Rs.112,32,371.04 131.51
		TOTAL	Rs.341,55,577 399.90
		Say in lacs	341.56 105



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Sub Work No. 1 Sub Head No. 01	Water Supply Head Works (Rising Main from HSVP & Bore Well) Amount in Rs.
1. Providing laying jointing and testing pipe lines including cost of excavation etc complete in all respects	
a) 100 mm dia D.I. Pipe 465 m @ Rs. 1460/- for plotted from HSVP main	Rs.6,78,900.00
b) 100 mm dia D.I. Pipe 269 m @ Rs. 1460/- for Tubewell	Rs.3,92,710.00 2.23
150 mm 116m 200L 200 mm 53m 27mL	2.33 les 1.43 les
2. Boring and installing tube well with reverse Rotary Rig Complete with pipe and strainer to a depth of about 120 meter in all respect	
3 Nos. for For overall 19.32500 Acre Site Area	
Total -3 Nos. @ Rs. 15,00,000/- each.	Rs.45,00,000.00
3. Provision for borewell chamber of size 1.5x 1.5x 1.5 m for Housing borewell 3 Nos. @ Rs 10000/- each	Rs.3,00,000.00
4. Construction of boundary wall arround Tube Well	Rs.2,00,000.00
5. Providing and fixing sluice value/butter fly value and air release valve including cost of surface boxes and masonry chambers etc complete in all respects	0.50
(a) 100 mm 3 Nos. @ Rs 12000 150 mm 200 mm	Rs.36,000.00
6. Providing and fixing indicating plates for sluice value. Butterfly valve and air valves etc.	
(a) 100 mm 4 Nos. @ Rs 2000	Rs.8,000.00
7. Provision for Carriage of material & other unforeseen items	Rs.1,00,000.00
8. Provision for cutting of roads and making good to its original conditions.	Rs.1,50,000.00
9. Provision for making connection with HSVP on master road.	Rs.2,00,000.00
10. Providing and Installing electricity driven or sumersible pumping sets capable of delivering about 20KL per hour against a total head of 65 meter. (L.S.) 3 Nos @ 1.50 les each	Rs.450,000.00
11. Provide for staff Quarters for maintenance staff (L.S.) 3 Nos	22.50 les Rs.10,00,000.00
<b>TOTAL</b>	
(C/O To Abstract of Cost for Sub work No.1)	
<b>Rs.79,65,640.00</b>	



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Sub Work No. 1 Sub Head No. 02	Water Supply Pumping Machinery	Amount in Rs.
1. Providing & installing booster pumping set of following capacity for Water Supply Booster pumps for Domestic purpose complete with motor and other accessories. <i>Dom - water</i>	<i>15.0</i> <del>875</del> 600 LPM of <del>45</del> M head of 1 set (2 Working 1 standby) of <del>1/2</del> HP Each @ Rs <del>1,75,000/-</del> <i>3.00 l/s</i>	<i>9.00 l/s</i> Rs.5,25,000.00
2. Providing & installing booster pumping set of following capacity for Water Supply Booster pumps for Domestic purpose complete with motor and other accessories. <i>Pumping water pump</i>	<i>10.0</i> <del>520</del> 400 LPM of <del>45</del> M head of 1 set (2 Working 1 stand by of <del>1/2</del> HP Each @ Rs 2,00,000/-	Rs.6,00,000.00
3. Provision for chlorination plant complete 1 No @ Rs 2,00,000/- Each		Rs.2,00,000.00
4. Provision for making foundations and erection of pumping machinery - Lump Sum		Rs.3,00,000.00
5. Provision for pipes, valves and special inside boosting chamber - Lump Sum		Rs.3,00,000.00
6. Provision for electric service connection including electrical fitting for booster pumps etc. - Lump Sum		Rs.5,00,000.00
7. Provision for carriage of material and other unforeseen items etc - Lump Sum		Rs.2,00,000.00
8. Providing and construction of Under Ground Water Storage Tank <del>615</del> KL Including <del>225</del> KL for fire + <del>375</del> KL for Raw & Domestic @ 550/- /KL <i>TS 225 KL Canteen for Flushing water tank near STP</i>	<i>615</i> Rs.3,27,500.00	<i>37.50 l/s</i> Rs.5,00,000.00
9. Construction of boosting chamber of suitable size - Lump Sum		Rs.3,00,000.00
10. Provision for gate, boundary wall, footpath and lawn as water works - Lump Sum		Rs.5,25,000.00
11. Provision for Generator set of <del>45</del> KVA - Lump Sum	<i>100</i> <i>15.00 l/s</i> Rs.72,77,500.00	<i>90.40 l/s</i> Rs.72,77,500.00
<b>TOTAL</b> (C/O To Abstract of Cost for Sub work No.1)		



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Sub-Work No. 1  
Sub Head No. 03

Water Supply  
Domestic Water Supply Distribution

	<i>Amount in Rs.</i>
1. Providing , Laying , jointing and testing D.I pipe line including Fittings, valves, cost of excavation etc. complete in all respect. D.I Pipe 100 mm , <del>1800</del> M @ Rs. 1460/- per meter D.I Pipe 150 mm <del>25</del> M @ Rs. 2040/- per meter	<del>21.24</del> Rs.27,14,800.00 <del>51,000.00</del> <del>8.37</del>
2. Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects. (a) 100mm ,5 Nos. Each @ Rs 12000/- (b) <del>150</del> mm ,3 Nos. Each @ Rs 15000/-	Rs.60,000.00 Rs.45,000.00
3. Providing and fixing External Fire Hydrants including chamber complete in all respects. (a) 7 Nos. Each @ Rs 15,000/-	Rs.1,05,000.00
4. Providing and fixing air release valve and scour valve (a) 3 Nos. Each @ Rs 10,000/-	Rs.30,000.00
5. Indication plate for valves,hydrant AV etc. (a) 13 Nos. Each @ Rs 2000/-	Rs.26,000.00
6. Provision for carriage of materials and other unforeseen items - Lump Sum	Rs.1,50,000.00
7. Provision for cutting of roads and making goods to its original conditions - Lump Sum	Rs.1,50,000.00
	<del>35.67</del> <del>165</del> TOTAL Rs.33,61,800.00



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Sub Work No. 1  
Sub-Head No. 04

Water Supply  
Flushing & Irrigation System

1. Providing , Laying , jointing and testing D.I pipe line including Fittings, valves, cost of excavation etc. complete in all respect. D.I Pipe 100 mm , 175 M @ Rs.1460/- per meter <b>D.I PIPE 150 mm 1460/-</b>	Amount in Rs. <b>25.55 10s</b> Rs.3,13,50,000.00 <b>8.36 1a</b>
2. Providing and fixing sluice/butter fly valve including cost of surface boxes and masonry chambers etc. complete in all respects. (a) 10 Nos. Each @ Rs 12,000/- <b>10x12000 = 120000 each 150ml</b>	Rs.1,20,000 <b>0.60 1a</b>
3. Providing and fixing air release valve and scour valve (a) 3 Nos. Each @ Rs 10,000/-	Rs.30,000
4. Indication plate for valves, hydrant AV etc. (a) 17 Nos. Each @ Rs 2000/-	Rs.22,000 <b>0.35</b>
5. Provision for carriage of materials and other unforeseen items - Lump Sum	Rs.1,00,000.00
6. Provision for upvc pipe line suitable for 6 kg pressure including cost of fitting, valve etc. complete 25mm dia. - Lump Sum	Rs.50,000.00
7. Provision for cutting of roads and making goods to its original conditions. - Lump Sum	Rs.1,00,000.00
8. Providing & Fixing 25 mm dia Irrigation Hydrant valve complete in all respect Total (C/O To Abstract of Cost for Sub work No.1)	Rs.75,000 Rs.36,50,000.00 <b>8.39.60 1as</b>



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## Sub-Work No. II

## SEWERAGE SCHEME

Amount in Rs.

1. Providing Laying jointing and testing sewer pipe line including fitting valves.  
Manholes & cost of excavation etc complete in all respect (Upto 2 mtr Depth)

**S.W. 8186**

- a) 200mm i/d 1605 M @ Rs.1700 / M
- b) 250mm i/d 316 M @ Rs.2000 M
- c) 100 mm i/d 433 M @ Rs 1460/M (Sewer Bye Pass Riser Line D.I pipe)

Rs.27,28,500  
Rs.6,32,000  
Rs.6,32,180

- ~~✓~~ 2. Providing Laying jointing and testing sewer pipe line including fitting .  
Manholes & cost of excavation etc complete in all respect (Above 2 mtr Depth)

- a) 200mm i/d 338 M @ Rs. 1700/M
- a) 250mm i/d 284 M @ Rs.2000/M

Rs. 5,74,000  
Rs. 5,68,000

- ~~✓~~ 3. Provision for carriage of materials & other unforeseen Items. - Lump Sum

Rs.2,00,000

- ~~✓~~ 4. Provision for making connection with HSVP sewer on master roads. (2 Nos.)

Rs. 2,00,000

- ~~✓~~ 5. Provision for providing & fixing vent shaft at suitable places as per P.H. requirement. - Lump Sum

Rs.5,00,000

- ~~✓~~ 5. Providing & installation ~~280~~ KLD compact sewerage plant complete in all respects.( Including Tertiary Treatment )@ Rs.16000/KLD

**136.00/**  
Rs. 1,24,80,000

- ~~✓~~ 6. Provision for cutting of roads and making good condition

Rs.1,00,000

**185.93/**

Total  
Add 3% contingencies & PH charges

Rs. 1,08,15,200

Rs. 5,04,154

**185.93/**

Total  
Add 49% Price Escalation,Departmental charges

Rs. 1,93,79,730

Rs. 94,96,072

**191.50****93.84**

TOTAL

Rs. 2,88,75,810

**285.34/**

SAY IN LACS

285.76

(Cost to Final abstract of cost)



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## Sub-Work No. III

## STORM WATER SCHEME

Amount in Rs.

1. Providing and laying R.C.C. pipe drain class NP-3 With cement joint ,Catch Basins & Road Gullies, manholes excavation etc complete in all respect.	
a) 400 mm dia. 1590 M @ Rs. 2500/m (upto 2 mtr. Depth)	Rs.39,75,000
b) 400 mm dia. 475 M @ Rs. 2700/m (above 2 mtr. Depth)	Rs.12,82,500
2. Provision for lighting and watcing -Lump Sum	Rs.2,50,000
3. Provision for roads gullies & connecting pipe 300 mm dia -Lump Sum	Rs.7,50,000
4. Providing for rainwater harvesting arrangements at selected places 16 Nos for Plotted @ Rs 350,000/Each	Rs.56,00,000
5. Provision for Shoring & Timbering - Lump Sum	Rs.3,50,000
7. Providing for lighting ,watering and timebring drains & other unforeseen charges - Lump Sum	Rs.1,50,000
8. Provision for making connection with HSVP Mains on master road - Lump Sum	Rs.2,00,000
9. Provision for temporary disposal arrangements till HSVP services are provided	Rs.20,00,000

Total

Rs.145,57,500

Add 3% for contingencies and PII charges

Rs.4,36,725

Total

Rs.149,94,225

Add 49% Departmental charges

Rs.73,47,170

TOTAL

Rs.2,23,41,395

(Cost to Final abstract of cost)

SAY IN LACS      223.41



For TULA REALTOR PVT. LTD.


  
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PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19,7500 ACRES IN SECTOR-1, TEHSIL-PATAUDI, DISTT-GURUGRAM, HARYANA  
SUBJECT: POPULATION & WATER DEMAND CALCULATIONS

PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-I, TITHI-PATAUDI, DISTT-GURUGRAM, HARYANA							
SUBJECT: POPULATION & WATER DEMAND CALCULATIONS							
S. No.	Unit Type	Category as per latest NBC	Total No. of Plots	Total Area (in Sqm)	Persons considered per plot as per HSVP norms	Total Population	LPCD Factor for Potable Water Req.
I. DOMESTIC WATER DEMAND							
1. Plots	Residential	377		13.5	5090	104.0	SI-25
2. Commercial Block	Business		182.55 or 0.45000 Acre		32000 Lit / Acre	14.428	269745.2
3. Common Facilities			77.6000 or 1.91754 ac.		25000 Lit / Acre	14.428	8779.7
			Total			32118.8	47.939
			Grand Total			629978.7	940305
						629979	940305
						630	940
II. HORTICULTURAL WATER DEMAND							
For approx. 20% of Total site area approx. 3.8500 Acre @ 25000 Litre/Acre(say)						05825	36
Total, Say (in Cu.m. per day)						36	
iii) <u>Area under Fruits and Veg 19.175 acres @ 40% of Site</u>						10000	
III. TUBE WELLS							
(a) Yield						15	KL/Hr
(b) Working Hours per Day						20	Hours per Day
Discharge per Tube well						300	
(c) Total Fresh water demand						630	m <sup>3</sup> /day
(d) Number of Tube wells required,						216	
(e) Add 5% as standby							
Total						0.21	Nos.
Say						23	Nos.
						3,00	Nos.
Water to the proposed development is to be supplied by HSVP and it is proposed to install the tube-wells for augmentation/standby purposes.							

(A) As to the proposed development it is to be capitalized by HSVP and it is proposed to install the tube-wells for augmentation/stanchy purposes.

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IV. PUMPING MACHINERY FOR TUBEWELLS

(a) Gross Working Head		60	Meters
(b) Average fall in S.L.		2	Meters
(c) Depression Head		6	Meters
(d) Friction loss in main		10	Meters
Total		78	Meters
(e) Discharge		15000	LPH
(f) Horse Power		7.22	HP
HP = $(15000 \times 78 \times 1)/(60 \times 60 \times 75 \times 0.6)$	Say	<del>500</del>	HP
		<del>7.50</del>	

V. UNDER GROUND TANK

(a) Total water demand (Daily for Domestic purposes)		630	m <sup>3</sup> /day
Capacity of U.G. tank @60% 630			
(b) Proposed capacity of underground tanks (Raw + Domestic) for domestic use. $(25+35\%) = 58\%$ (SAY 60%) storage (One day storage) = $0.6 \times 630 = 378$		378.0	m <sup>3</sup>
(C) Proposed capacity of underground static tank for fire = $100 \times \text{square root of } 5890/7000 = 225.6 \text{ KL}$ (SAY 225 KL) <del>211.1</del>	TOTAL	<del>75</del>	m <sup>3</sup>
<b>F. Water Tank - 310 KL + 60 KL = 370 KL &amp; 60 KL SAY 225 KL</b>	Say	<del>225</del>	m <sup>3</sup> /day
		<del>875</del>	m <sup>3</sup> /day

VI. (A) BOOSTING MACHINERY (Water Supply Pumps)

(a) Daily Domestic Water Demand		630	m <sup>3</sup> /day
(b) Discharge per hour @ 6 hr. pumping / day		105.00	m <sup>3</sup> /hour
Say		175.00	lpm
(c) No. of Working pump (2 working + one standby)		<del>2</del>	
(d) Proposed Pump discharge (Working)		<del>350</del>	lpm
	Say	<del>350</del>	lpm
Gross Working Head			
(a) Suction lift - positive suction		6	Meters
(b) Frictional Loss in Mains & Specials		9	Meters
(c) Max Clear Head required		<del>10</del>	Meters
Total			
(g) H.P. of each pump required		<del>0.75 X 15</del>	-
Pump H.P.		<del>11.25 X 0.6</del>	
	Say	<del>15.00</del>	

<b>14.56 H.P.</b>			
<b>Say 15.00</b>			
<b>15.00</b>			
<b>Gross Head</b>			
(a) Gross Working Head		6	Meters
(b) Frictional Loss in Mains & Specials		9	Meters
(c) Max Clear Head required		<del>10</del>	Meters
Total			
(g) H.P. of each pump required		<del>0.75 X 15</del>	-
Pump H.P.		<del>11.25 X 0.6</del>	
	Say	<del>15.00</del>	

For TULAREALTOR PVT. LTD.

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VI.(B) BOOSTING MACHINERY (Flushing & Garden Supply Pumps from STP)

(a) Daily Flushing & Horticultural Water Demand.	<b>370</b>
(b) Discharge per hour @ 6 hr. pumping / day	<b>50.83</b>
(c) No. of Working pump	<b>Say 2</b>
(d) Proposed Pump discharge (Working)	<b>513.9</b>
Gross Working Head	<b>Say 520</b>
(e) Suction lift - positive suction	6 Meters
(f) Frictional Loss in Mains & Specials	9 Meters
(g) Max Clear Head required	Total <b>30</b>
	<b>45</b>
(h) H.P. of each pump required (Pump H.P.)	<b>8.66</b>
	<b>5.50</b>
	<b>10.0</b>
	<b><u>5.50 + 0.60</u></b>
VII. GENERATING STPS	<b>Say 520 + 55</b>
1. HP of Tube well Pump	<b>3 + 7.5</b>
2. HP of Domestic water supply Pump	<b>2 + 15</b>
3. HP of Flushing water supply Pump	<b>2 + 10</b>
4. Add for lighting	
	<b>Total 100</b>
	<b>in KVA</b>
	<b>SAY</b>
VIII. STP CAPACITY	<b>92.31 KVA</b>
1 Total water required Domestic + Flushing	<b>Say 940</b>
2 Water go to STP <del>at 80%</del>	<b>KL</b>
3 Add for 10% for margin	<b>752.0</b>
	<b>752.0</b>
FOAL	<b>821.70</b>
	<b>752.0</b>
SAY	<b>KL</b>
	<b>850 KL</b>
	<b>Say 1000</b>



For TULAREALTOR PVT. LTD.

Authorised Signatory

PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-1, TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT : ROAD WORKS

S. No.	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
1	Provision for leveling & earth filling as per site conditions	Acre.	19.17500	1,75,000.00	33,55,625.00
2	Provision for 200 mm GSB, 250 mm Stone Aggregate, 50 mm DBM, 30 mm BC. <del>(11570 sqm. @ 1500/- sqm.)</del>	SQM.	<del>11,570</del> 11945	1,500	<del>173,55,000</del> 179,18,165
3	Providing of Paver block on both side of road <del>(5064 sqm. @ Rs. 1000/-)</del>	Sqm	<del>2087 X 241.20</del>	<del>5010 Sqm 1000/-</del>	<del>50,10,000</del> 50,10,165
4	Providing of kerbs stone & channels of CC 1:2.5:5 (kerb stone on both side of road <del>9.0 m wide roads) @ 600/- Meter.</del>	mtr	<del>4175 m</del> 2,976	<del>600/-</del>	<del>25,05 /as</del> 23,85,600
5	Provision for guide map and other unforeseen item - Lump Sum				2,00,000
6	Provision for plot indicators - Lump Sum				2,00,000
7	Provision for demarcating burgies - Lump Sum				2,00,000
8	Provision for traffic arrangement - Lump Sum				2,00,000
9	Provision for carriage of material & unforeseen items - Lump Sum				10,00,000
10	Provision for Pavement in commercial area and pavements. (50% OF AREA)	Sqm	912.28	1,000.00	9,12,275.00
	Sub Total				<del>315.01 /as</del> 3,17,72,500.00
	Add 3% contingencies & PH charges				<del>9,45</del> 9,53,175.00
	Sub Total				<del>3,27,25,675.00</del> 324.46
	Add 49% Departmental Charges , Price escalation, unforeseen & Admin. Charges				<del>1,60,35,580.75</del> 158.99
	Total				<del>4,87,61,255.75</del> 483.45
	Say Rs in Lakhs (C/O to Final abstract of cost)				487.61

For TULA REALTOR PVT. LTD.  
DB  
Authorised Signatory



PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING  
19.17500 ACRES IN SECTOR-1, TEHSIL-PATAUDI, DISTT-  
GURUGRAM, HARYANA

SUBJECT: ROAD AREA

S. NO	ROAD NO	ROAD LENGTH IN M	ROAD WIDTH (CARPETED) IN M	AREA IN SQM
1	1-2	24.00	5.5	132
2	2-3	106.00	5.5	583.0
3	3-4	21.00	5.5	115.5
4	4-5	30.00	5.5	165.0
5	5-6	27.00	5.5	148.5
6	6-7	94.00	5.5	517.0
7	7-8	18.00	5.5	99.0
8	7-2	45.00	5.5	247.5
9	6-9	43.00	5.5	236.5
10	9-10	45.00	5.5	247.5
11	9-11	42.00	5.5	231.0
12	11-12	45.00	5.5	247.5
13	11-13	42.00	5.5	231.0
14	13-14	45.00	5.5	247.5
15	13-15	41.00	5.5	225.5
16	15-17	20.00	5.5	110.0
17	15-16	45.00	5.5	247.5
18	5-18	17.00	5.5	93.5
19	18-22	43.00	5.5	236.5
20	22-21	10.00	5.5	55.0
21	21-20	39.00	5.5	214.5
22	20-19	5.00	5.5	27.5
23	22-23	147.00	7.0	1025 → 1629
24	23-24	10.00	5.5	55.0
25	24-25	18.00	7.0	126
26	21-25	129.00	7.0	903
27	25-26	39.00	5.5	214.5
28	20-26	129.00	5.5	709.5
29	26-27	42.00	5.5	231.0
30	27-29	21.00	5.5	115.5
31	27-28	43.00	5.5	236.5
32	23-30	30.00	5.5	165.0
33	30-31	14.00	5.5	77.0
34	31-32	48.00	5.5	264.0
35	31-33	35.00	5.5	192.5
36	33-34	17.00	5.5	93.5
37	34-35	99.00	5.5	544.5
38	35-36	101.00	5.5	555.5
39	35-37	45.00	5.5	247.5
40	37-40	9.00	5.5	49.5
41	37-38	154.00	5.5	847.0
42	38-39	11.00	5.5	60.5
43	TOTAL	1988.00		11943.75

LENGTH OF KERB STONE      3976.00      RM

+ 5' 4174.82 sqy 11943.75

For TULA REALTOR PVT. LTD. MB sqy 4175 m<sup>2</sup>

Authorised Signatory



PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-I,  
TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT: EXTERNAL LIGHTING

S.No.	Description	UM	Qty.	Rate	Amount
1	Providing and installing street light on roads as per standard specification of DHVPN with LED	Acre	19.17500	250000	4793750
2	Contingency and Freight Charges @ 3%				143812.5
	TOTAL				4937562.5
3	ADD 4% Depit charges, price escalation unforseen & Admin charges				2419405.6
4	TOTAL				7356968.1
	Say Rs in Lakhs (C/O to final abstract of cost)				73.57 <i>Lakhs</i>



For TULA REALTOR PVT. LTD.

*MB*  
Authorised Signatory

PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-I,  
TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT: PLANTATION & ROAD SIDE TRESS

S.No.	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
1	Development of organised lawn green area.	Acre	14.4315	1,50,000.00	2,16,472.50
a	Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure.				
b	Rough dressing of turfed area.				
c	Grassing with "DOOB GRASS" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn , free from weeds and fit for mowing in row 7.5 cm part in either direction.				
2	Providing and planting trees along boundary 12 m interval = $\frac{1985}{12} \times 2 = 347.83$ <del>2087</del> Say 350 Nos	Nos.	350	2,250.00	7,72,500.00
	Cost Detail				8.09
	Excavation		60.00		
	Manure		100.00		
	Tree Plant		150.00		
	Tree Guard		900.00		
	Total		2310	1150.00	
	Sub Total				10.25 Nos
	Add 3% contingencies & PH charges				0.31 Nos
	Sub Total				10.56 Nos
	Add 49% Departmental charges				5.17 Nos
	Total				15.73 Nos
	Say Rs in Lakhs (C/O to Final abstract of cost)				15.13

For TULA REALTOR PVT. LTD.

BB  
Authorised Signatory



PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-1,  
TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT : MTC CHARGES & RESURFACING OF ROADS

S.No.	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
1	Providing of M/C charges for Water Supply, Sewerage, Strom water drainage, Roads, Street lighting, Plantation etc. complete in all aspect, including operational and establishment charges as per HUDA norms for 10 years completion.				1,53,40,000/-
	Area 19.175 acres @ 8.00 lacs per acre	Acre	19.175	8.00 /ac	153.40 lacs
2	Providing of resurfacing of roads after 5 years 100mm thick layer 100mm thick BLSCG compete to 25mm thick premix carpet with seal cost				7,13,200/-
	Total Road Area 11570 sqm @ 600 per sqm	Sqm	11945	600/-	78.84 lacs
3	Providing of resurfacing of roads after 10 years with 25mm thick premix carpet with seal coat with mech paver.				9,45,200/-
	Total Road Area 11570 sqm @ 825 per sqm	Sqm	11945	825/-	98.55 lacs
	Sub Total				2,25,21,450.00
	Add 3% contingencies & PH charges				6,75,643.50
	Sub Total				2,31,97,093.50
	Add 49% Departmental charges				1,11,13,577.42
	Total				1,66,10,669.92
	Say Rs in Lakhs (C/O to Final abstract of cost)				166.95 lacs
					507.66 lacs



For TULA REALTOR PVT. LTD.  
Authorised Signatory  
*MB*

PROJECT: PLOTTED COLONY UNDER TODAY LAND MEASURING 1912500 ACRES IN SECTOR 4, TEHSIL-PATAUDI, DISTT-GURUGRAM, HARYANA

SUBJECT : SEWERAGE SYSTEM DESIGN SHEET

S.No.	Sewer Line	No. of Plots	Population /PLOT	Total Population	Water Supply	Total Water Requirement	Sewerage Discharge (LPD)	Average Sewerage Discharge	Peak Sewage Discharge	Size of Pipe	Velocity	Design Discharge	Length of Line	Slope	Fall in Meters	Ground Level	Invert Level	Depth of Mf	Average depth of pipe			
1	2	3	4	5	6	7	5	6	7	8	9	10	11	12	13	14	15	16	17	25	26	28
From	To																					
1	1	2	12, Common Facility & Commercial	145	547	1725	97268	73146	73146	1824	3.55	0.09	200	2.42	0.74	0.41	136	20	1681	1000	25100	28100
2	2	3	4	5	6	7	5	6	7	8	9	10	11	12	13	14	15	16	17	22	23	24
3	3	4	5	6	7	8	135	135	135	1164	873	7716	1106	8065	0.09	200	2.42	0.74	0.41	38	20	134
4	4	5	6	7	8	9	135	135	135	6558	4541	4541	125	1.55	0.06	200	2.42	0.74	0.41	84	20	107
5	5	6	7	8	9	10	135	135	135	7219	5445	5445	125	1.55	0.06	200	2.42	0.74	0.41	103	20	141
6	6	7	8	9	10	11	135	135	135	6986	5746	5746	125	1.55	0.06	200	2.42	0.74	0.41	17	20	107
7	7	8	9	10	11	12	135	135	135	9315	6386	6386	125	1.55	0.06	200	2.42	0.74	0.41	27	20	138
8	8	9	10	11	12	13	135	135	135	0	135	135	125	1.55	0.06	200	2.42	0.74	0.41	6	20	161
9	9	10	11	12	13	14	135	135	135	23285	17406	17406	125	1.55	0.06	200	2.42	0.74	0.41	20	20	271
10	10	11	12	13	14	15	135	135	135	9315	6386	6386	125	1.55	0.06	200	2.42	0.74	0.41	45	20	134
11	11	12	13	14	15	16	135	135	135	13973	10179	10179	125	1.55	0.06	200	2.42	0.74	0.41	14	20	133
12	12	13	14	15	16	17	135	135	135	27345	20149	20149	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
13	13	14	15	16	17	18	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
14	14	15	16	17	18	19	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
15	15	16	17	18	19	20	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
16	16	17	18	19	20	21	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
17	17	18	19	20	21	22	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
18	18	19	20	21	22	23	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
19	19	20	21	22	23	24	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
20	20	21	22	23	24	25	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
21	21	22	23	24	25	26	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
22	22	23	24	25	26	27	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
23	23	24	25	26	27	28	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
24	24	25	26	27	28	29	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
25	25	26	27	28	29	30	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
26	26	27	28	29	30	31	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
27	27	28	29	30	31	32	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
28	28	29	30	31	32	33	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
29	29	30	31	32	33	34	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
30	30	31	32	33	34	35	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
31	31	32	33	34	35	36	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
32	32	33	34	35	36	37	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
33	33	34	35	36	37	38	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
34	34	35	36	37	38	39	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
35	35	36	37	38	39	40	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
36	36	37	38	39	40	41	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
37	37	38	39	40	41	42	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
38	38	39	40	41	42	43	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
39	39	40	41	42	43	44	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
40	40	41	42	43	44	45	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
41	41	42	43	44	45	46	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
42	42	43	44	45	46	47	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
43	43	44	45	46	47	48	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
44	44	45	46	47	48	49	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
45	45	46	47	48	49	50	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
46	46	47	48	49	50	51	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
47	47	48	49	50	51	52	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
48	48	49	50	51	52	53	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	10	20	132
49	49	50	51	52	53	54	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	45	20	132
50	50	51	52	53	54	55	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	27	20	132
51	51	52	53	54	55	56	135	135	135	16301	12152	12152	125	1.55	0.06	200	2.42	0.74	0.41	14	20	132
52	52	53	54	55	56	57	135</td															

PROJECT: PLOTTED COLONY UNDER DJAY LAND  
MEASURING 19.17500 ACRES IN SECTOR-1, TEHSIL-  
PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT: SEWERAGE SYSTEM SHEET

S.No.	Sewer Line		Size of Pipe MM	Length of Line Meters
	From	To		
1	1	2	200	136
2	2	4	200	38
3	3	4	200	84
4	4	5	200	103
5	5	6	200	17
6	6	7	200	27
7	7	8	200	6
8	35	36	200	45
9	37	36	200	11
10	36	34	200	40
11	33	34	200	45
12	34	32	200	42
13	31	32	200	45
14	32	30	200	43
15	29	30	200	45
16	30	28	200	44
17	25	27	200	35
18	26	27	200	13
19	27	28	200	100
20	28	22	200	23
21	24	23	200	128
22	23	22	200	45
23	22	21	250	25
24	21	13	250	189
25	20	14	200	141
26	19	15	200	129
27	17	16	200	33
28	18	16	200	16
29	16	15	200	48
30	15	14	200	30
31	14	13	200	25
32	13	11	250	48
33	12	11	200	62
34	11	10	250	2
35	10	8	250	12
36	8	9	250	15
37	9	STP	250	25
Total 200 Dia Pipe (Avg depth 1.20 - 2.70 M)				1605
Total 250 Dia Pipe (Avg depth 1.20 - 2.70 M)				316
Total				1921

For TULA REALTOR PVT. LTD.

Authorised Signatory



PROJECT: PLOTTED COLONY UNDER DITYA LAND MEASURING 19.17500 ACRES IN SECTOR 4, TEHSIL PATAIDIP, DISTT-GURUGRAM, HARYANA

SUBJECT: DRAINAGE SYSTEM DESIGN SHEET

S. No.	LINE NO.	FROM [K]	To [K]	Soil Area (m <sup>2</sup> )	Soil Area (Acre)	Branch Area (Acre)	Total Area (Hectare)	Total Area (Acre)	Rain Fall mm/hr	Discharge Lps/ha/Sec	Length in m	Pipe dia in mm	Slope in in/mm	Velocity in m/sec.	Cap of pipe in lps	Fall in line/m.	Ground Level			Invert Level			
																	Start	End	Start	End	Start	End	Average
1	32	34	39	99342	0.15	0.15	0.15	0.06	0.35	4.03	2000	430	50	0.64	80.75	0.04	251.00	249.80	249.76	249.74	1.24	1.22	
2	41	30	31	23157	0.06	0.15	0.20	0.08	0.25	1.44	810	403	50	0.64	80.75	0.02	251.00	251.00	249.76	249.74	1.24	1.20	
3	36	30	38	143	0.22	0.22	0.39	0.05	1.55	40.00	65	50	0.64	80.75	0.06	251.00	251.00	249.68	249.68	1.26	1.25		
4	36	29	30	85020	0.89	0.43	1.31	0.53	0.25	92.22	120.00	430	50	0.64	80.75	0.25	251.00	251.00	249.50	249.50	1.22	1.29	
5	29	28	31	131520	0.33	1.31	1.64	0.06	0.25	11.54	45.00	430	50	0.64	80.75	0.09	251.00	251.00	249.50	249.50	1.50	1.38	
6	46	44	44	126188	0.08	0.08	0.08	0.03	0.25	0.25	11.00	430	50	0.64	80.75	0.02	251.00	251.00	249.40	249.40	1.50	1.54	
7	45	44	44	113849	0.26	0.26	0.26	0.10	0.25	1.44	80	35.00	430	50	0.64	80.75	0.07	251.00	251.00	249.38	249.38	1.20	1.22
8	44	42	42	124619	0.32	0.34	0.34	0.05	0.25	4.53	42.00	430	50	0.64	80.75	0.08	251.00	251.00	249.37	249.37	1.20	1.27	
9	43	42	43	113849	0.26	0.26	0.26	0.10	0.25	1.38	80	35.00	430	50	0.64	80.75	0.07	251.00	251.00	249.65	249.65	1.35	1.31
10	42	40	40	124619	0.31	0.31	0.31	0.05	0.25	4.20	80	35.00	430	50	0.64	80.75	0.08	251.00	251.00	249.81	249.81	1.20	1.27
11	41	40	40	113849	0.26	0.26	0.26	0.10	0.25	1.38	80	35.00	430	50	0.64	80.75	0.08	251.00	251.00	249.91	249.91	1.20	1.23
12	40	38	38	124619	0.32	1.47	1.47	0.25	0.25	12.47	32.00	35.00	430	50	0.64	80.75	0.12	251.00	251.00	249.90	249.90	1.20	1.21
13	39	38	38	101849	0.26	0.26	0.26	0.10	0.25	1.38	80	35.00	430	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
14	38	37	37	113849	0.31	2.03	2.03	0.05	0.25	16.43	42.00	310	50	0.64	80.75	0.07	251.00	251.00	249.73	249.73	1.20	1.23	
15	37	37	37	113849	0.25	0.25	0.25	0.10	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.96	249.96	1.20	1.23
16	37	36	36	101849	0.25	0.25	0.25	0.10	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.91	249.91	1.20	1.23
17	36	35	35	124619	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.90	249.90	1.20	1.23
18	35	28	28	113849	0.15	1.47	1.47	0.25	0.25	12.47	32.00	35.00	430	50	0.64	80.75	0.12	251.00	251.00	249.90	249.90	1.20	1.23
19	36	35	35	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
20	35	35	35	113849	0.15	1.47	1.47	0.25	0.25	16.43	42.00	310	50	0.64	80.75	0.07	251.00	251.00	249.73	249.73	1.20	1.23	
21	35	35	35	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.96	249.96	1.20	1.23
22	34	34	34	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.90	249.90	1.20	1.23
23	35	35	35	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
24	30	29	29	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
25	29	28	28	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
26	28	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
27	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
28	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
29	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
30	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
31	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
32	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
33	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
34	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
35	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
36	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
37	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
38	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
39	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
40	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
41	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
42	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
43	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
44	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.07	251.00	251.00	249.86	249.86	1.20	1.23
45	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75	0.08	251.00	251.00	249.86	249.86	1.20	1.23
46	27	27	27	113849	0.15	1.47	1.47	0.25	0.25	1.38	80	35.00	310	50	0.64	80.75							

PROJECT: PLOTTED COLONY UNDER DDJAY LAND  
MEASURING 19.17500 ACRES IN SECTOR-1, TEHSIL-  
PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT: DRAINAGE SYSTEM SHEET

S. No.	Line No.		Pipe dia.	Length
	From	To	mm	Meters
1	32	31	400	20.00
2	31	30	400	8.00
3	36	30	400	30.00
4	30	29	400	121.00
5	29	28	400	45.00
6	46	44	400	11.00
7	45	44	400	35.00
8	44	42	400	42.00
9	43	42	400	35.00
10	42	40	400	42.00
11	41	40	400	35.00
12	40	38	400	47.00
13	39	38	400	35.00
14	38	37	400	42.00
15	35	37	400	102.00
16	37	28	400	54.00
17	28	27	400	58.00
18	25	26	400	39.00
19	26	27	400	15.00
20	27	17	400	126.00
21	23	22	400	33.00
22	24	22	400	18.00
23	22	21	400	36.00
24	20	21	400	107.00
25	21	18	400	37.00
26	19	18	400	107.00
27	18	17	400	22.00
28	17	15	400	18.00
29	1	2	400	14.00
30	2	3	400	107.00
31	3	4	400	44.00
32	5	4	400	109.00
33	4	6	400	100.00
34	6	7	400	17.00
35	7	8	400	35.00
36	9	8	400	53.00
37	8	10	400	16.00
38	10	11	400	7.00
39	14	13	400	109.00
40	13	12	400	5.00
41	12	11	400	32.00
42	11	15	400	23.00
43	15	16	400	10.00
44	16	Disposal	400	25.00
Total 400 Dia Pipe				2061
SAY				2065

For TULA REALTOR PVT. LTD.

Authorised Signatory



PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.1750 ACRES IN SECTOR-I, TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA  
 SUBJECT : DOMESTIC WATER SUPPLY DESIGN SHEET

S. No.	Line Designation	No. of Plot	Water Requirements (in KLD)	Self Water requirement (in KLD)	Branch Water requirement (in KLD)	Total Water Requirements (in KLD)	Discharge per Hour considering 8 Hours Pumping	Size of Pipe Provided	Velocity in ft/sec.	Head loss per 1000m	Loss of head as per pipe length	Length of pipe (in meters)	Ground Level		Hydraulic Level		Terminal Head	
													Start	End	Start	End		
						Total	KL/Hr	mm										
1	WTP	1	(1)A	0	624	624	77.986	150	4.03	1.23	18	0.42	25	251.00	251.00	286.556	74.556	
2	1	2	3	4.08	5	5	0.585	100	0.07	0.02	0	0.001	14	251.00	251.00	286.001	35.001	
3	1	3	4	0.24	6	619	619	100	9.0	2.74	126	3.516	28	251.00	251.00	286.001	35.001	
4	3	4	6.24	6	346	401	50.529	100	5.85	1.78	57	3.568	63	251.00	251.00	286.484	31.184	
5	4	5	0.00	0	105	105	13.070	100	1.52	0.49	5	0.103	22	251.00	251.00	286.472	31.172	
6	5	6	6	0.46	9	69	9.754	100	1.43	0.35	3	0.101	37	251.00	251.00	285.897	31.187	
7	6	7	5	7.80	8	25	4.097	100	0.48	0.18	1	0.020	36	251.00	251.00	285.899	31.189	
8	7	8	4	0.24	6	6	0.580	100	0.94	0.03	0	0.001	18	251.00	251.00	286.980	34.980	
9	7	9	12	18.75	19	19	3.341	100	0.52	0.18	0	0.006	33	251.00	251.00	286.000	35.000	
10	6	10	33	5.80	36	36	3.457	100	0.52	0.10	1	0.001	146	251.00	251.00	286.964	31.044	
11	5	11	17	26.47	27	27	3.716	100	0.54	0.12	0	0.039	106	251.00	251.00	285.931	31.041	
12	4	13	17	26.53	27	26.5	3.719	100	0.54	0.12	0	0.039	129	251.00	251.00	285.964	31.061	
13	12	13	8	12.38	12	12	1.561	100	0.18	0.08	0	0.005	84	251.00	251.00	286.972	30.972	
14	12	14	7	13.92	11	242	283	100	3.68	1.12	23	1.293	54	251.00	251.00	286.961	34.961	
15	14	15	39	60.80	61	12	723	9.169	100	1.02	0.53	2	0.480	105	251.00	251.00	286.717	33.717
16	15	16	5	5.80	8	8	0.573	100	0.11	0.01	0	0.001	15	251.00	251.00	285.980	34.980	
17	15	17	3	4.68	5	5	0.585	100	0.17	0.02	0	0.001	76	251.00	251.00	286.999	34.999	
18	14	18	4	6.24	6	163	21.968	100	0.07	0.02	0	0.001	76	251.00	251.00	286.980	34.980	
19	18	20	36	45	51	51	5.657	100	2.45	0.75	0	0.385	34	251.00	251.00	285.945	34.945	
20	18	21	7	11.92	11	106	117	100	1.00	0.08	0.20	1	0.143	117	251.00	251.00	286.980	34.980
21	20	21	12	18.73	19	19	2.941	100	1.73	0.52	0	0.248	13	251.00	251.00	286.984	34.984	
22	20	22	5	4.56	9	78	82	100	0.27	0.08	0	0.007	35	251.00	251.00	285.972	34.972	
23	22	23	12	18.73	19	19	3.543	100	0.23	0.09	3	0.141	42	251.00	251.00	286.984	34.984	
24	22	24	2	11.92	11	48	59	100	0.27	0.08	0	0.005	35	251.00	251.00	286.959	34.959	
25	24	25	12	18.73	19	19	3.473	100	0.26	0.08	2	0.070	43	251.00	251.00	286.945	34.945	
26	24	26	6	9.36	9	20	3.421	100	0.27	0.08	0	0.007	35	251.00	251.00	286.970	34.970	
27	26	28	10	17.67	16	16	9.950	100	0.13	0.11	0	0.018	40	251.00	251.00	286.982	34.982	
28	26	25	3	1.68	5	5	0.585	100	0.23	0.07	0	0.005	35	251.00	251.00	286.965	34.965	
29	3	29	18	54	54	217	32.072	100	3.15	0.98	18	2.719	153	251.00	251.00	286.630	35.630	
30	29	30	26, Common Facilities	72.00	73	73	0.187	100	1.93	0.32	2	0.240	109	251.00	251.00	286.284	32.284	
31	29	31	48, Commercial	94.39	85	85	11.572	100	1.23	0.37	3	0.182	216	251.00	251.00	286.010	32.010	



For TULA REALETOR PVT. LTD.

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Authorised Signatory

PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-I, TEHSIL-PATAUDI, DISTT- GURUGRAM, HARYANA

SUBJECT: DOMESTIC WATER SUPPLY SHEET

S. No.	Line Designation	Size of Pipe Provided mm	Length of pipe metres	
				150mm
1	WTP	1	150	25
2	1	2	100	14
3	1	3	150	28
4	3	4	150	63
5	4	5	150	22
6	5	6	100	37
7	6	7	100	36
8	7	8	100	18
9	7	9	100	33
10	6	10	150	40
11	5	11	100	106
12	4	12	150	129
13	12	13	100	53
14	12	14	150	54
15	14	15	100	165
16	15	16	100	35
17	15	17	100	26
18	14	18	100	34
19	18	19	100	162
20	18	20	100	43
21	20	21	100	35
22	20	22	100	42
23	22	23	100	35
24	22	24	100	43
25	24	25	100	35
26	24	26	100	40
27	26	28	100	35
28	26	27	100	10
29	3	29	100	154
30	29	30	100	109
31	29	31	100	216
TOTAL FOR 100 DIA			1453	1000+
TOTAL FOR 150 DIA			25	
TOTAL PIPING			5971455	1000+
SAY			1910	

150mm  
25

28  
63  
22

106  
129  
54

427 ml  
say 430 ml

MUNICIPAL LINE			
1	1a -- UGT	100	462
		TOTAL PIPE 100 DIA (SAY)	465

150mm 246mb

TUBEWELL LINE				
1		TW1-1	+100 150	44
2		TW1-2	A +100 100	109 ✓
3		TW1-3	A 100	44 ✓
TOTAL PIPE 100 DIA (SAY)				269

116  
—  
—  
15 m  
15 m

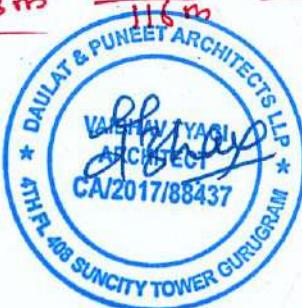
\* To UGT

153m

For TULA REALTOR PVT. LTD.

Authorised Signatory

(MB)



PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING 19.17500 ACRES IN SECTOR-3, TEHSIL-PATAUDI, DISTT.-GURUGRAM, HARYANA  
 SUBJECT : FLUSHING & GARDEN WATER SUPPLY DESIGN SHEET

S. No.	Node No.	No. of Plot	Flushing Water Requirement In KLD	Branch Water Total KLD	Discharge per Hour considering 8 Hours Pumping	Size of Pipe Provided	Velocity in ft/sec. in m/s	Head Loss per 1000 m	Loss of head as per pipe length	Ground level		Hydraulic Level	Terminal Head		
										From	To	k/hr	mm		
1	SIP	1	0	311	38.846	100	4.52	39	0.988	245.00	250.00	250.00	250.00		
2	1	2	38	29	107	13.327	100	1.55	0.47	5	151	252.30	252.30		
3	2	3	36	Common Facilities	36	4.474	100	0.52	0.16	1	0.049	95	252.30	252.30	
4	2	4	5	36	42	5.24	100	0.64	0.18	1	0.026	38	352.70	252.30	
5	4	6	43 Commonal	38	38	4.724	100	0.55	0.17	1	0.091	159	252.30	252.30	
6	4	7	0	0	0	0.490	100	0.40	0.00	0	0.000	19	252.30	252.30	
7	1	8	0	0	204	55.521	100	2.07	0.91	17	0.261	12	252.30	252.30	
8	7	9	0	0	7	0.964	100	0.10	0.03	0	0.002	100	252.30	252.30	
9	7	10	0	0	0	0.183	100	0.08	0.00	0	0.000	183	252.30	252.30	
10	7	11	0	0	147	107	100	2.87	0.88	16	0.313	22	252.30	252.30	
11	10	11	0	0	33	0.133	100	0.75	0.23	1	0.027	25	252.30	252.30	
12	11	12	13	13	107	1.632	100	0.19	0.08	0	0.008	114	252.30	252.30	
13	11	13	3	38	4	0.11	100	0.86	0.12	1	0.018	20	252.30	252.30	
14	13	14	24	18	18	2.704	100	0.26	0.08	6	0.013	114	252.30	252.30	
15	13	15	6	3	12	2.112	100	0.16	0.05	0	0.006	49	252.30	252.30	
16	15	16	10	10	10	1.548	100	0.15	0.04	0	0.002	40	252.30	252.30	
17	15	17	3	3	10	1.248	100	0.15	0.04	0	0.002	40	252.30	252.30	
18	10	18	17	17	146	1.214	100	0.15	0.04	0	0.000	15	252.30	252.30	
19	16	17	8	8	10	0.768	100	0.15	0.04	4	0.024	147	252.30	252.30	
20	17	18	6	10	10	0.588	100	0.15	0.04	0	0.003	57	252.30	252.30	
21	17	19	11	11	11	0.437	100	0.15	0.04	0	0.003	65	252.30	252.30	
22	20	13	5	5	84	0.151	100	0.16	0.14	0	0.006	168	252.30	252.30	
23	21	21	12	12	10	3.461	100	1.26	0.38	3	0.069	53	252.30	252.30	
24	22	23	3	3	146	1.148	100	0.12	0.04	0	0.029	100	252.30	252.30	
25	22	24	3	4	2	0.788	100	0.13	0.04	0	0.000	12	252.30	252.30	
26	21	25	4	4	4	0.480	100	0.16	0.02	0	0.000	35	252.30	252.30	
27	20	26	5	5	78	7.210	100	1.84	0.54	0.26	0	0.015	42	252.30	252.30
28	21	27	9	9	15	1.151	100	0.15	0.14	0	0.004	44	252.30	252.30	
29	21	27	4	4	14	3.413	100	1.26	0.38	3	0.069	45	252.30	252.30	
30	22	28	9	9	9	0.161	100	0.12	0.04	1	0.032	42	252.30	252.30	
31	22	28	3	3	2	0.788	100	0.13	0.04	0	0.000	43	252.30	252.30	
32	22	28	4	4	4	0.480	100	0.16	0.02	0	0.000	43	252.30	252.30	
33	20	29	5	5	78	1.731	100	1.84	0.54	0.26	0	0.015	42	252.30	252.30
34	21	29	4	4	14	3.413	100	1.26	0.38	3	0.069	44	252.30	252.30	
35	21	29	3	3	2	0.788	100	0.13	0.04	0	0.000	45	252.30	252.30	
36	21	29	4	4	4	0.480	100	0.16	0.02	0	0.000	43	252.30	252.30	
37	21	29	5	5	11	1.151	100	1.26	0.38	3	0.069	44	252.30	252.30	
38	21	29	4	4	3	0.384	100	0.14	0.04	0	0.000	43	252.30	252.30	
39	21	29	3	3	8	0.161	100	0.13	0.04	0	0.000	43	252.30	252.30	
40	21	29	4	4	8	0.480	100	0.16	0.02	0	0.000	43	252.30	252.30	
41	22	31	12	12	9	1.151	100	1.26	0.38	3	0.069	44	252.30	252.30	
42	22	31	11	11	11	0.384	100	0.14	0.04	0	0.000	43	252.30	252.30	
43	22	31	12	12	10	0.161	100	0.13	0.04	0	0.000	43	252.30	252.30	
44	22	31	13	13	8	0.480	100	0.16	0.02	0	0.000	43	252.30	252.30	



For TULA REALTOR PVT. LTD.

Authorised Signatory  


PROJECT: PLOTTED COLONY UNDER DDJAY LAND MEASURING  
19.17500 ACRES IN SECTOR-1, TEHSIL-PATAUDI, DISTT-  
GURUGRAM, HARYANA

SUBJECT : FLUSHING & GARDEN WATER SUPPLY SHEET

S. No.	Line Designation	Size of Pipe Provided	Length of pipe	
				150 mm
1	STP	1	100	25
2	1	2	100	151
3	2	3	100	95
4	2	4	100	38
5	4	6	100	159
6	4	5	100	40
7	1	7	150	42
8	7	8	100	106
9	7	9	100	183
10	7	10	150	22
11	10	11	150	25
12	11	12	150	114
13	11	13	100	30
14	13	14	100	114
15	13	15	100	49
16	15	16	100	40
17	15	17	100	15
18	10	18	150	45
19	18	19	100	57
20	18	20	150	65
21	20	25	100	168
22	20	21	100	23
23	21	22	100	100
24	22	23	100	42
25	22	24	100	35
26	21	27	100	44
27	27	28	100	45
28	27	30	100	42
29	30	29	100	43
30	30	32	100	42
31	32	31	100	43
32	32	34	100	40
33	34	33	100	43
34	34	35	100	19
TOTAL PIPE OF 100 DIA				2156-1746
TOTAL PIPE				2156-1730 m
Say				2160-1730 m

For TULA REALTOR PVT. LTD.

Authorised Signatory

