

LC-5614

**SERVICE ESTIMATE, DESIGN REPORT AND
CALCULATION OF
INTERNAL DEVELOPMENT WORKS**

FOR

PROPOSED "AFFORDABLE RESIDENTIAL PLOTTED COLONY" (DDJAY) AREA MEASURING 9.731 ACRES (LICENSE NO. 139 OF 2023 DATED 06.07.2023) IN THE REVENUE ESTATE OF VILLAGE -PATAUDI,SECTOR - 4, PATAUDI, DISTT. GURUGRAM BELONGING TO SH. HIMANSHU GARG S/O NITANAND GARG, SH. NITANAND GARG S/O LATE SH. KASHMIRI LAL, SMT. NIRMAL GARG W/O SH. NITANAND GARG AND SMT. JYOTI GARG W/O SH. HIMANSHU GARG.

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATIONS OF INTERNAL DEVELOPMENT WORKS FOR REVISED "AFFORDABLE RESIDENTIAL PLOTTED COLONY" (DDJAY) AREA MEASURING 9.731 ACRES (LICENSE NO. 139 OF 2023 DATED 06.07.2023) IN THE REVENUE ESTATE OF VILLAGE -PATAUDI, SECTOR - 4, PATAUDI, DISTT. GURUGRAM BELONGING TO SH. HIMANSHU GARG S/O NITANAND GARG, SH. NITANAND GARG S/O LATE SH. KASHMIRI LAL, SMT. NIRMAL GARG W/O SH. NITANAND GARG AND SMT. JYOTI GARG W/O SH. HIMANSHU GARG.

PATAUDI town of Haryana State situated on N.H. -352 W road at a distance of 58 Km from Delhi. Being in the national capital region, the town has fast developing tendency and potential. Further, it has also started sharing the growing residential, commercial and Industrial load of Delhi. In order to review the growing pressure of population in National Capital of Delhi, It has been decided by the Haryana Government to develop various infrastructure facilities in PATAUDI Urban Complex. The layout plan for an area measuring 9.731 Acres (Drg. No. 10038 dated 12.02.2024) has been issued in respect of Affordable Residential Plotted Colony under DDJAY by DTCP Chandigarh. This report is for a part of service estimate for proposed "Affordable Residential Plotted Colony" (DDJAY) Area Measuring 9.731 Acres (License No. 139 Of 2023 Dated 06.07.2023) In the revenue estate of village -Pataudi, Sector - 4, Pataudi, Distt. Gurugram Belonging to Sh. Himanshu Garg S/o Nitinand Garg, Sh. Nitinand Garg S/o Late Sh. Kashmiri Lal, Smt. Nirmal Garg W/o Sh. Nitinand Garg and Smt. Jyoti Garg W/o Sh. Himanshu Garg. has been prepared with the following provisions which are as under :-

1. WATER SUPPLY

The source of water supply in this area is by HSVP Mains. It has been proposed to construct underground tanks of capacity as per attached details and to location for domestic purpose and for fire protection. The underground tanks will be fed from the HSVP based supply, which will feed O.H. tanks on the roof of the Building and has been designed as per the Hazen Williams formula. Presently there is proposed / under execution HSVP W/S in this area. However the provision of tube wells has been taken due to non-availability of water but after getting the approval from the competent authority through tube wells / tankers / any other approved source till HSVP W/S will be made available. The proposed tube well shall be 510mm bore drilled with reverse rotary rig and installed with 80mm i/d housing pipe and 50mm i/d slotted tube as strainer, hence the provision of 1 Nos. Tube Wells has been taken in this estimate.

DESIGN

The scheme has been designed for population of 3114 persons and considering @ 18.00 persons / units for Affordable Residential Plotted Colony and other provision etc. The combined quantum of water supply (domestic + flushing) per head / day has been taken as 155.25 Liters per head per day as per design calculation.

PUMPING EQUIPMENTS

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any time electricity failure. Generator will be provided separately or added to the capacity of main generator.

2. SEWERAGE

The scheme is designed for sewer connecting to the STP and bypass connection to HSVPSewerage scheme. The sewer lines have designed for three times average D.W.F in relation to water supply demand. It has assumed that about 80% of the domestic and flushing water supply shall find its way into the proposed sewer. Sewer lines shall be running by gravity and discharge to STP proposed. Treated water will be used for Irrigation & Flushing purpose (through recycling) under the pipe line system.

3. STORM WATER DRAINAGE

It has been proposed to lay R.C.C pipes with required number of manholes for disposal of storm water, which will be connected to the HSVP drain. The intensity of rain fall has been taken as 6.00mm per hour. A minimum size of 400mm i/d R.C.C pipe for storm water drain will be provided and designed as per Manning's formula. Necessary provision of rainwater harvesting arrangement has also been taken in this estimate.

4. ROADS

Road, Parking and Pavement have been provided to above areas and estimate is prepared as revised specifications adopted by HSVP.

5. STREET LIGHTING AND ELECTRIFICATION :-

Provision for external lighting, electrification and ESS of proposed area has been made.

6. HORTICULTURE :-

Estimate and details of plantation, landscaping, signage etc. have been included.

7. FIRE FIGHTING :-

Provision of Fire Fighting system has been made.

8. SPECIFICATIONS

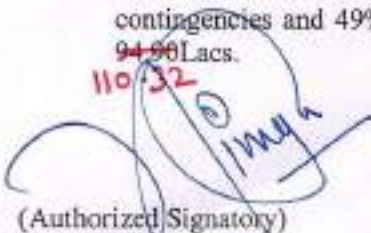
The work will be carried out in accordance with the standard specifications of PH as laid down by the Haryana Government / HSVP.

9. RATES

The estimate has been based on the present market rates.

10. COST

The total cost of the scheme including cost of all services works out to Rs. ~~923.40~~ ^{1073.52} Lacs including 3% contingencies and 49% departmental charges + Price escalation and cost per acre comes out to Rs. ~~94.86~~ ^{110.32} Lacs.



(Authorized Signatory)

1. DESIGN CALCULATION :-

Total Area of plot	= 9.731 Acres or 39379.897 Sqm.
Proposed Area Under Plots	= 5.0434 Acres
Permissible Commercial Area	= 1575.195 sqm. OR 0.3892 Acres
Proposed Commercial Area	= 1575.053 sqm. Or 0.3890 Acres
Proposed Community site	= 0.9734 Acres
Proposed Plots	= 173 Plots
ESS	= 49.00 Sqm

I) Water Requirement :-

• Total Plots	= 173 Plots
Total Population @ 18.00 Persons/Plot	= 3114 Persons
@ 155.25 LPCD	= 4,83,448.50 LPD
• Commercial area	= 0.3890 Acres OR (1575.053 Sqm.)
@ 3 Sqm / person = 526 Persons @ 45 LPCD	= 23670.00 LPD
• Community Building (Area 0.9734 Acre)	= 24335.00 LPD
• ESS , Guards and Mtc. Staff etc.	= 10000.00 LPD
Total	= 541453.50 LPD Or 5.42 KLD
	Say 550 KLD

II. FIRE DEMAND

(i) Population	= 3114 Persons
(p) $\frac{1}{2} \times 100/1000 = (3.114) \frac{1}{2} \times 100$	= 176.46/3 = 58.82 KLD
(Considering 1/3 of total population)	
Add. @ 15% extra for margin factor	= 8.82 KLD
Total	= 67.64 KLD
Say	= 70.00 KLD

III. Garden Irrigation Requirement (For Total Area) = 40.00 KLD**IV. Total Water Requirement for UGT**

(Excluding Fire Demand)

Hence Domestic Water Requirement (67%)	= 550 x 67% = 369.00 KLD
Hence Flushing Water Requirement (33%)	= 550 x 33% = 181.00 KLD
Day Requirement considering	= 370 K.L. for Domestic
	= 180 K.L. for Flushing

But it is proposed to construct an UGT i.e. ³⁰⁰370 K.L. in two compartment for domestic use and ^{incl. 70 K.L. fire}190 K.L. for non potable water in two compartment (at STP) and 70 K.L. for fire fighting purposes for UGT in two compartment as shown location in the plan.

Total Capacity of UGT = ²³⁰ 370 + 70	= ^{300.0} 440.00 KLD
Total Storage Requirement for Flushing and irrigation at STP (180+40) = 220.00 KLD	
(Flushing 180 K.L. + Irrigation 40 KLD X 60% = 220 KLD)	
	Say = 150 KLD

V. Tube Well		For UGT
a) Yield		= 15 K.L. / Hr.
b) Working Hour per day		= 16 Hr. / Per Day
c) Total water demand		= 369 M3/Day
d) Number of tube well required (Water Demand / Discharge / Hr. working Per day)		= 1.54 Nos
e) Add 5% extra		= 0.08
	Total	= 1.62 Nos
	Say	= 2 No.

Water to the proposed development is to be supplied by HSVP. However consider @ 50 %T.W.S. i.e. 1 Nos. T.W. to install for proposed requirement of water for augmentation / standby purposes and provision has also been taken in the estimates due to non availability of water but after getting the approval from the competent authority.

VI) Pumping Machinery for Tube wells		
a) Gross Working Head		= 80 Mtr
b) Average fall in S.L		= 2 Mtr
c) Depression Head		= 6 Mtr
d) Friction loss in main		= 10 Mtr
Total		= 98 Mtr
e) Discharge	= 15000 LPH (Or 4.17 LPS Say 4.50 LPS)	
f) Horse Power		= 9.80 H.P.
HP = $(4.50 \times 98) / (75 \times 0.60)$		
	Say	= 10.00 H.P.

It is proposed to provide 1 No. pumping set of 4.50 LPS discharge at 98 Mtr head (1W)

VII) Boosting Machinery for domestic water For UGT		
Total Water Requirement		= 369.00 KLD
Pumping per hour @ 8 hr. pumping / day		= 369/8 KL / hr. = 46.125 KL / hr. = 768.75lpm = 12.81lps
	Say 2 No. 7.00 LPS each	
Gross working head	For UGT	
- Suction lift		= 5.00 mts.
- Frictional loss in mains & specials		= 10.00 mts.
- Clear Head required		= 30.00 mts.
Total		= 45.00 mts.
Say		= 45.00 mts.
Pump HP	= $(7.00 \times 45) / (75 \times 0.60)$	
	= 7.00 H.P.	
	Say	= 7.50 HP

It is proposed to provide 3 Nos. of pumping set of 7.00 lps discharge at 45mts Head each (2W + 1S) for UGT.

VIII) Boosting Machinery for flushing water at STP

Total Water Requirement	= 181 K.L.D
Pumping per hour @ 8 hr. pumping / day	= 181/8 KL / hr.
	= 22.625 KL / hr.
	= 377.08lpm = 6.28lps,
	Say 2 No.4.00lps each
Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 10.00 mts.
- Clear Head required	= 30.00 mts.
Total	= 45.00 mts.
Say	= 45.00 mts.
Pump HP	= (4.00 x 45) / (75 x 0.60)
	= 4.00 HP
	Say = 5.00 HP

It is proposed to provide 3 Nos of pumping set of 4.00lps discharge at 45 mts Head each (2W + 1S)

IX) Boosting Machinery for Irrigation water

Total Water Requirement	= 40 KLD
Pumping per hour @ 5 hr. pumping / day	= 40 / 5 KL / hr.
	= 8.00 KL / hr.
	= 133.33lpm = 2.23lps
	Say = 3.00 LPS

Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 5.00 mts.
- Clear Head required	= 25.00 mts.
Total	= 35.00 mts.
Say	= 35.00 mts.
Pump HP	= (3.00 x 35) / (75 x 0.60)
	= 2.33 HP
	Say = 3.00 HP

It is proposed to provide 2 No. of pumping set of 3.00 lps discharge at 35 mts Head each (1W + 1S)

X) DG Set for plumbing

DG Set Requirement

Submersible Pump (1 x 10)
 Domestic Pump (2 x 7.50)
 Street Light and other etc.
Total pump load

For UGT

= 10.00HP
 = 15.00 HP
 = 10.00HP
 = 35.00 HP
 = $35.00 \times 0.746 \times 1.50$
 = 39.17 K.W
 = **1 No. 40 KVA**

Total DG capacity

Hence it is proposed to provide 1 No. D.G. Set of 40 KVA capacity at U.G.T.

DG Set for S.T.P. (for flushing & Irrigation + Surplus Treated Water)

Requirement = $2 \times 3.0 \text{ HP} + 5.00 \text{ HP} = 15.00 \text{ HP}$ ($15 \times 0.746 \times 1.50$) = 16.785 KVA

Say = 20.00 KVA

FLOW TO SEWAGE TREATMENT PLANT

Total Water Requirement = (369 for domestic & 181 KLD for flushing)

i) 80% of total Domestic Water Demand = 80% of 369 KLD = 295.20 KLD

ii) 80% of total Flushing Water Demand = 80% of 181 KLD = 144.80 KLD

Total = 440.00 KLD

Considering 5% marginal factor = 22.00 KLD

G. Total = 462.00 KLD

Say 470 KLD

Proposed STP Capacity = 470 KLD Or 0.47 MLD



(Authorized Signatory)

FINAL ABSTRACT OF COST

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
			217.10
1	SUB WORK NO. I	WATER SUPPLY SCHEME	174.25
			164.55
2	SUB WORK NO. II	SEWERAGE SCHEME	162.19
			132.50
3	SUB WORK NO. III	STORM WATER DRAINAGE	114.44
			236.85
4	SUB WORK NO. IV	ROAD AND FOOTPATH	187.44
			37.32
5	SUB WORK NO. V	STREET LIGHTING	22.41
			8.82
6	SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	8.64
			276.38
7	SUB WORK NO. VII	MTC. OF SERVICES & RESURFACING OF ROADS (After 1st 5 years of 1st Phase & Next 5 years in 2nd Phase)	254.03
			1073.52 105
		TOTAL	923.40

Cost Per Acre = Rs. ~~923.40~~ Lacs / 9.731 = ~~94.90~~ Lacs Per Acre

AUTHORISED SIGNATORY

Superintending Engineer,
HSVP, Circle-3, Gurugram.

Checked subject to Comments
In forwarding letter No. 233791
Dt. 28/08/2024 and notes
attached with the estimate

Executive Engineer
HSVP Division No. V,
Gurugram

Executive Engineer (W)
for Chief Engineer-I
HSVP, Pataudi

Director
Town & Country Planning
Haryana, Chandigarh

SUB WORK NO. 1 (Abstract of cost)

WATER SUPPLY SCHEME

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
			57.75
1	Sub Head No. 01	Head Works	39.45
			30.70
2	Sub Head No. 02	Pumping Machinery	24.30
			46.92
3	Sub Head No. 03	Water Supply Distribution & Rising main pipe	43.37
4	Sub Head No. 04	External Fire Hydrants	3.82 ✓
			2.28
6	Sub Head No. 05	Irrigation	2.60
			141.47
		TOTAL	113.54
		Add 3% contingency & P.E. Services	3.41 4.24
		Total	116.95 145.71
		Add 49% Department charges + Price Escalation	57.30 71.39
		G. Total	174.25 217.10 105
		Say in Lacs	174.25

(C.O. to Final Abstract Of Cost)

SUB WORK NO. I

Sub Head No. 01

WATER SUPPLY

Head Works

Sr. NO.	Description	Amount in Rs.
1	Construction of U.G. tanks and Fire Tank Including pipes, valve & Specials. 440 KLD @ Rs. 500/- per K.L.D. (230KLD + 70KLD)	1980000.00 16.50 lacs
	230 KLD Storage att S.T.P. @ Rs. 500/- per KLD	1035000.00 8.25 lacs
2	Provision for construction of Boosting Station 1 Nos @ Rs. 250000/- each (L.S.)	250000.00 4.00 lacs
3	Boring and installing tube well reverse rotary rig complete with pipes and strainer to a depth of about 120 Mtr complete in all respect. 1 Nos @ Rs. 500000/- each	500000.00 15.00 lacs
4	Provision for construction of tube well chamber size 1.50m x 1.50m complete in all respect. 1 Nos @ Rs. 80000/- each	80000.00
5	Provision for carriage of material and unforeseen items L.S.	1.00 lacs 50000.00
6	boundary wall around the T.W side & water works (L.S.)	3.00 lacs 50000.00
7	Provision of specials for tube well & rising main to UGT L.S.	1.50 lacs
8	Prov. for footpath, Hedges and lawn at T.W (L.S.)	7.50 lacs
	Total (L.S.) 1000	3945000.00
	Say in Lacs	39.45

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 1

Sub Head No. 02

WATER SUPPLY
Pumping Machinery

Sr. NO.	Description	Amount in Rs.
1	Providing and installing Hydro pneumatic pumping set of following capacities for domestic water Supply with specials <i>1.50 lacs</i>	<i>4.50 lacs</i>
<i>420 lacs</i>	7.00 lps at 45 mts head - 3 No. (2W+1SB) - @ Rs. 80,000/- each Set (7.50HP)	240000.00
2	Providing and installing Hydro Pneumatic pumping set of following capacities for Flushing water supply & irrigation etc. <i>1.00 lacs</i>	<i>3.00 lacs</i>
<i>210 lacs</i>	i 4.00 lps at 45 mts head - 3 No. (2W+1SB) @ Rs. 60,000/- 1 Set (5.00 HP each)	180000.00
	ii 3.00 lps at 35 mts head - 2 No. (1W+1SB) @ Rs. 80,000/- 1 Set (3.00 HP each)	160000.00
3	Providing and installing Submersible pump for tube wells with specials <i>2.00 lacs</i>	<i>2.00 lacs</i>
	4.50 lps at 98 mts head - 1 Nos (1W) @ Rs. 1,20,000/- 1 Set (10HP each)	120000.00
4	Provision for ESS (Electric Panel Foundation) L.S.	150000.00
5	Provision for D.G. Set for stand by arrangement for all machinery (40 KVA + 20 KVA) = 1 No.60 KVA @ Rs. 12,00,000/- each	1200000.00
6	Provision for making foundations & erection of pumping machinery	150000.00
7	Provision for pipes, valve & specials inside boosting chamber L.S.	200000.00
8	Provision for electric services connection including electric fittings for boosting chambers and pump chamber etc. <i>Incl. Cost of Transformer</i>	100000.00 <i>2.50 lacs</i>
9	Provision for carriage of materials and other unforeseen items L.S.	50000.00
	Total	2430000.00
	Say in Lacs	24.30 <i>30.70 lacs</i>

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 1
Sub Head No. 03

WATER SUPPLY
Water Supply Distribution & Rising Main Pipe

Sr.	Description	Amount in Rs.
1	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects (Dore + Flushing + Rising main)	
i)	100mm dia D.I. Pipe 1736 Mtr @ Rs. 1475/- Per Mtr	2560600.00
ii)	150mm i/d D.I. Pipes -448 Mtr @ Rs. 1875/- Per Mtr 2040/-	840000.00 9.14 lacs
iii)	200mm i/d D.I. Pipes 47 Mtr @ Rs. 2475/- per mtr 2700/-	116325.00 1.27 lacs
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect	1.80 lacs
a)	100mm i/d 15 No. @ Rs. 10000/- each	150000.00
b)	150mm i/d 8 No. @ Rs. 15000/- each	120000.00
c)	200mm i/d 2 No. @ Rs. 25000/- each	50000.00
3	Providing and fixing indicating plates for sluice valve 25 No. @ Rs. 2000/-	50000.00
4	Providing and fixing air valve and score valve etc. L.S.	50000.00
5	Provision for carriage of materials and other unforeseen items	50000.00
6	Provision for making connection with HSVP Pipe & T.W's etc.	300000.00
7	Provision for cutting the road and making good the same	250000.00
		46.92 lacs
	Total	4336925.00
	Say in Lacs	43.37

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 01

WATER SUPPLY

SUB HEAD NO. 04

EXTERNAL FIRE HYDRANTS

Sr.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing D.I./ K7 Pipes for fire rising main including cost of fittings, valves, connection etc. complete in all respect	
a)	100mm dia - 84 M @ Rs. 1475/- Per Mtr	123900.00
2	Providing and fixing fire Hydrant with accessories 14 No. @ Rs. 15000/- each	210000.00
3	Providing and fixing indicating plate -14 No. @ Rs. 2000/- each	28000.00
4	Provision for carriage of material L.S.	20000.00
	Total	381900.00
	Say In Lacs	3.82 Lacs

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. 01

WATER SUPPLY

SUB HEAD NO. 05

IRRIGATION

Sr. NO.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing UPVC pipe lines suitable for 6 kg pressure including cost of fittings, valves, connection etc. complete in all respect	
a)	25mm dia - 160 M @ Rs. 300 /- Per Mtr	0.48 80000.00
2	Providing and fixing 25mm dia, Irrigation hydrant valve complete in all respect 20 Nos @ Rs. 5000/- each	100000.00
3	Provision for carriage of materials and other unforeseen items L.S.	10000.00
4	Provision for indicating plate with safety box etc. complet in all respect 20 Nos @ Rs. 2000/- each	40000.00
5	Provision for road cutting and making it condition as original L.S.	30000.00
	Total	260000.00
	Say in Lacs	2.60 2.28 lacs

(C.O. to Abstract of cost of Sub Work No. I)

SUB WORK NO. II

SEWERAGE SCHEME

Sr.	Description	Amount in Rs.
1	Providing, jointing, cutting and testing stoneware pipe grade A and lowering into trenches including cost of excavation, bed concrete, cost of manholes etc. complete <i>1700/-</i>	<i>13.55 lacs</i>
	a) SW Pipe 200mm i/d avg. depths 0 - 2.00M 797M @ Rs. 2270/- <i>2000/-</i> per Mtr	1809190.00 <i>1600000.00</i>
	b) SW Pipe 250mm i/d avg depth 2.00 M 162 M @ Rs. 2430/- per Mtr	<i>393660.00</i> <i>3.24</i>
	c) SW Pipe 300mm i/d avg depth 2.75 M 48 M @ Rs. 2700/- <i>2880/-</i> per Mtr	129600.00 <i>1.38 lacs</i>
2	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respect - 150mm dia Heavy Class DI pipes (overflow for STP) <i>2440/-</i>	<i>2.35 lacs</i>
	a) 150MM i/d D.I. Pipe - 115 M @ Rs. 1875/- <i>1875/-</i> Per Mtr	215625.00
3	Provision of lighting and watching etc. <i>and vent pipe as per P.H. res. at suitable places</i>	<i>5.00 lacs</i>
4	Provision for cartage of material <i>& other unforeseen items (Ls)</i>	<i>250000.00</i>
5	Provision for making connection with HSVP	<i>200000.00</i>
6	Provision for construction of Sewerage Treatment Plant (STP) including the cost of tertiary treatment level with recycling storage tank and machinery with all arrangement etc. complete in all respect. 470 KLD or (0.47 MLD) Capacity @ Rs. 16000/- per KLD	7520000.00
7.	<i>Prov. for cutting of Roads & making good to its original condition (Ls)</i>	<i>2.00 lacs</i>
	Add 3% contingency & P.E. Services	<i>10568075.00</i> <i>107.22 lacs</i>
	Total	<i>317042</i> <i>3.22 lacs</i>
	Add 49% Department charges + Price Escalation	<i>10885117</i> <i>110.44 lacs</i>
	G. Total	<i>5333707</i> <i>54.11 lacs</i>
	Say in Lacs	<i>16218825</i> <i>164.55 lacs</i>

(C.O. to Final Abstract of Cost)

SUB WORK NO. III

STORM WATER DRAINAGE SCHEME

Sr.	Description	Amount in Rs.
1	Providing, lowering, laying, jointing RCC pipe class Np3 with cement joint, a) RCC Np3 pipe 400mm i/d = 853 M @ Rs. 2950/- Per Mtr	21.33 2516350.00
2	Provision for Rain Water Harvesting arrangement including the cost of screening chamber and pit with all type of pipes and other material etc. complete in all respect as per standard drawing and bore upto requirement of site etc. 10 Nos RWH @ Rs.3,50,000/- each	3500000.00
3	Provision for road gulley & pipe with connection	5.00 lacs 1000000.00
4	Provision for lighting and watching	100000.00
5	Provision for timbering and shoring	2.00 40000.00
6	Provision for cartage of material & other unforeseen items (L3) cutting of roads & making good to its in original	10.00 lacs 50000.00
7	Provision for making connection with HSVP storm water drain	200000.00
8	Provision for temporary disposal arrangements till HSVP services are provided	10.00 lacs
	Total (L3)	7456350.00
	Add 3% contingency & P.E. Services	223690.50
	Total	7680040.50
	Add 49% Department charges + Price Escalation	3763219.85
	G. Total	11443260.35
	Say in Lacs	114.44

86.33 lacs
2.59 lacs
88.92 lacs
43.58 lacs
132.50 lacs

(C.O. to Final Abstract of Cost)

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Sub Work No. IV

ROAD AND FOOTPATH

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for leveling & earth filling as per site conditions	Per Acre	9.731	150000 1.75 lacs	1459650 17.03 lacs
2	1) Providing and laying Bituminous road (250mm GSB, 250mm WMM, 50mm DBM, 30mm BC).	Sqm	6610	1500	7932000 99.15
3	Provision for kerbs & channels of C.C. 1:2:4	Metre	2250 2300	600	1380000
4	Provision for arrangement of guide map and indicating board etc.	LS			300000
5	Provision for footpath with 100mm thick PCC under pavement cement concrete of specified grade 1:4:8 and Interlocking tile 80mm thick etc. complete in all respect. (2.4m wide road)	Sqm	1380 250	1000/-	1104000 2.50 lacs
6	Provision for Traffic Light Control (L.S.)				Rs 2.0 lacs
7	Provision for Pavement in Comm. Area i.e. 50% of the area 1575.05/2	LS	7905	1500/-	11.85 lacs
8	Provision for carriage of material as per underseen items	LS			100000
	Sub Total				12245650
	Add 3% contingencies & P.E. Services				367370
	Sub Total				12613020
	Add 49% Departmental Charges + Price Escalation				6180380
	Total				18793399
	Say Rs. In Lacs				187.94

(C.O. to Final Abstract of cost)

Sub Work No. V

STREET LIGHTING

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for Street Lighting at surrounding area as per standard specifications of HVPN etc. complete	Acre	9.731	150000	1459650 24.33
	Add 3% contingencies & P.E. Services				43790 0.72
	Total				1503440 25.05 lacs
	Add 49% Departmental Charges + Price Escalation				736685 12.27 lacs
	Total				2240125 37.32 lacs
	Say Rs. In Lacs				22.41 Rs 37.32 lacs

(C.O. to Final Abstract of cost)

19

Sub Work No. VI

HORTICULTURE

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Development of Lawn Areas				
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 with all fitting and valve etc. complete				
b.	Rough dressing of turfed area				
c.	Grassing with "Cynodon dactylon" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in row 7.5 cm part in either direction				
d.	organized green 3001.44 Sqm Or 0.75 Acres (As per detail given in green park area calculation)	Acre	0.75	150000	112500
2	Providing and planting both side trees along road boundary @ 12 m interval (Length appx 2250 M) = $2250/12 = 250$ Nos 191.66 <u>230</u> Say No. of trees = <u>250</u> Nos Cost details : Excavation = Rs. 60 Manure = Rs. 90 Tree Plant & Guard (16+1200) Rs. 1650 <u>2160</u> Total Rs. = Rs. 1800 <u>2310</u>				
		Each	250	1800	450000
	Total				562500 <u>5.75 Lacs</u>
	Add 3% contingencies & P.E. Services				16875 <u>0.17 Lacs</u>
	Total				579375 <u>5.92 Lacs</u>
	Add 49% Departmental Charges + Price Escalation				283894 <u>2.90 Lacs</u>
	Total				863269 <u>8.82 Lacs</u>
	Say Rs. In Lacs				-8.64
					<u>8.82 Lacs</u>

(C.O. to Final abstract of cost)

Sub Work No. VII

Mtc. Of services & Resurfacing of Road

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Mtc. Of water supply, sewer, storm water drain, roads, street light, hort. Etc. for period of 10 years including operation charges full establishment etc. complete in all respects 9.731 acres @ Rs. 7.50 lacs per acre	Acre	9.731	750000 8.00 lacs	7298250 77.85 lacs
2	Provision for resurfacing of roads after 5 years of 1st phase with provision of 50mm thick DBM including leveling coarse and 30mm BC as per crust design whichever is safer	Sqm	6610 + 230 6860	600 660/-	3966000 45.28 lacs
3	2nd phase after next five years of 1st phase (50mm DBM & 30mm BC or as per crust design whichever is safer)	Sqm	6610 + 230 6860	800 825/-	5288000 56.96 lacs
	Sub Total				16552250 180.09 lacs
	Add 3% contingencies & P.E. Services				496568 5.40 lacs
	Sub Total				17048818 185.49 lacs
	Add 49% Departmental Charges				8353921 90.89 lacs
	Total				25402738 276.38 lacs
	Say Rs. In Lacs				254.03

(C.O. to Final abstract of cost)

SUMMARY OF DESIGN REQUIREMENT

S. No.	Description	Qty	Unit
1	Total Population	3114	Persons
2	Total Water Requirement (Domestic)	369	KLD
3	Total Water Requirement (Flushing)	148	KLD
4	Total Water Requirement (Horticulture)	40	KLD
5	U. G Tank (Domestic - 310 KLD)	1	No.
6	U. G Tank (Fire - 60 KLD)	1	No.
7	No. of Domestic WS pumps UGT	2+1	Set
8	No. of Flushing pumps	2+1	No.
9	No. of submersible pumps	1	No.
10	Generating sets (40 KVA + 15 KVA)	1 + 1	40 + 20 KVA
11	STP (470 KLD)	1	No.
12	Surplus Sewage Treated water	249	KLD
13	Storage of Sewage Treated water (S.T.P.)	230	KLD
14	Total no. of Plots	173	No.

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TOTAL MATERIAL STATEMENT FOR WATER SUPPLY i.e. DOMESTIC, FLUSHING & RISING MAIN ETC.

S. No.	Description	Size of pipe upto valve in 80mm	Size of pipe upto valve in 100mm	Size of pipe upto valve in 150mm	Size of pipe upto valve in 200mm	Size of pipe upto valve in 250mm
1	Domestic	-	763 M	231 M	47 M	0
2	Flushing	-	852 M	217 M	0	0
3	Rising Main	-	121 M	0	0	0
	Total	-	1736 M	448 M	47 M	0

MATERIAL STATEMENT FOR BOREWELL RISING MAINS AND HUDA MAIN

S. No.	Name of Line		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr		
	From	To			100mm	150mm	
1	T.W.	UGT	100	6	6		
2	HSVP Line	UGT	100	115	115		
	Total			121	121	0	

MATERIAL STATEMENT FOR SEWERAGE SCHEME

S. No.	Line No.		Length (In Mtr)	Pipe Dia	Length in Mtr			
	From	To			200mm i/d 0 to 2.00 Mtr	250mm i/d 0 to 2.50 Mtr	300mm i/d 0 to 2.75 Mtr	400mm i/d 0 to 3.00 Mtr
1	A	B	105	200	105			
2	B2	B1	34	200	34			
3	B3	B1	15	200	15			
4	B1	B	38	200	38			
5	B	C	60	200	60			
6	C1	C	82	200	82			
7	C	D	70	200	70			
8	D1	D	34	200	34			
9	D	E	95	250		95		
10	E	F	20	250		20		
11	F1	F	70	200	70			
12	F	G	47	250		47		
13	G1	G	174	200	174			
14	G	H	25	300			25	
15	H1	H	115	200	115			
16	H	STP	23	300			23	
17	STP - HUDA / Sewer By Pumping 150mm i/d D.I. Pipe = 115 Mtr					-	-	-
	Total		1007		797	162	48	0

200mm i/d Pipe Length 797 Mtr
 250mm i/d Pipe Length 162 Mtr
 300mm i/d Pipe Length 48 Mtr
 150mm i/d D.I./HDPE Pipe (By Pumping) = 115 Mtr

MATERIAL STATEMENT OF STORM WATER DRAINAGE SCHEME

Sr. No.	Line Reference		400mm i/d RCC Np3 Pipe	450mm i/d RCC Np3 Pipe
			Length in Mtr	Length in Mtr
	From	To		
1	A	B	98 70	
2	B1	B	70 98	
3	B	C	58	
4	C1	C	78	
5	C	D	75	
6	D1	D	38	
7	D	GOVT SWD LINE	60	
8	F	G	180	
9	G1	G	148	
10	G	GOVT SWD LINE	48	
	Total Length		853	

Total Length 400mm i/d RCC Np3/DWC pipe = 853 Mtr

Total Rain Water Harvesting (RWH) = 10 Nos

Material Statement of Road Works

Sr. No.	Road No.	Road Width	Length	Width	Area	
1	1	9.00	232.00	5.50	1276.00	Sqm
2	2	9.00	143.00	5.50	786.50	Sqm
3	3	9.00	40.00	5.50	220.00	Sqm
4	4	9.00	112.00	5.50	616.00	Sqm
5	5	9.00	38.00	5.50	209.00	Sqm
6	6	9.00	205.00	5.50	1127.50	Sqm
7	7	9.00	105.00	5.50	577.50	Sqm
8	8	9.00	29.00	5.50	159.50	Sqm
9	9	24.00	94.00	2 X 7.00	1316.00	Sqm
	G. Total		998.00		6288.00	Sqm
Add 5% extra for curves					314.40	Sqm
Total					6602.40	Sqm
				Say	6610.00	Sqm

(24m)

ii) Kerbs & Channels

i)	9.00 Mtr wide road (2 x 904)	1808 Mtr
ii)	24.00 Mtr wide road (2 x 2 x 94)	376 Mtr
	Total	2184 Mtr
	Add 5% for curves	109 Mtr
	G. Total	2293 Mtr
	Say	2293 Mtr
		2300

II) Footpath :-

(i) 9M wide road = 904 M x 1.20M	= 1084.80 Sqm
(ii) 24 M wide road = 94 M x 2 x 1.20M	= 225.60 Sqm
Total	= 1310.40 Sqm
Add 5% for curves	= 65.52 Sqm
Total	= 1375.92 Sqm
	236.08
	Say 1380 Sqm
	250

MATERIAL STATEMENT (FIRE HYDRANT)

i) Length of Water Supply (Domestic) = 1041 Mtr

ii) Length of 100mm i/d F.H. = $14 \times 6 = 84$ Mtr

iii) Nos of F.H. = 34 Nos

Note : Fire Hydrant considering @ 80 Mtr /each in Domestic Water Supply line
= $1041 / 75 = 14$ Nos

SUBHEAD : IRRIGATION WATER SUPPLY SCHEME - DESIGN CALCULATION (HORTICULTURE)

HYDRAULIC STATEMENT OF IRRIGATION WATER SUPPLY

S. No.	Line Reference	Requirement	Peak Flow in LPH	Velocity (m/s)	Size of the pipe required (in mm)	Size of the Pipe Recommend (mm)	Hydraulic Radius	Total Friction Loss in m/m	Length (M)	Loss of Head in Line (M)	Formation Level	Available head (M)
1	From Flushing Water Supply line	40 K.L.	-	-	25.00	25	-	-	160	-	-	-

Note :- 20 Nos connections are to be done from flushing water supply line i.e. 20 Nos x 8 Mtr/each =160 Mtr for 25mm i/d

HYDRAULIC STATEMENT OF WATER SUPPLY (DOMESTIC)

SUBHEAD : DOMESTIC WATER SUPPLY SCHEME - DESIGN CALCULATION

S. No.	Line Reference		Type of Colony	Residential Pkts					Population @ 13.00 Person per plot	Water Requirement @ 135.25 LPCD	Other Water Requirement i.e. Comm. / Community building / With booth/ other services	Total Water Requirement in LPO	Water Requirement @ 5% of total water requirement	Peak Flow in LPH	Velocity (m/s)	Size of the pipe in (mm)	Total Friction Loss in K/M	Length in (M)	Loss of Head in Line (M)	Formation level at lower End	Available Head at lower end (M)	Terminal Head (M)	Remarks
	From	To		Self	Branch	Total																	
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20	21	22	
1	UGT	A	Plotted Res.	2	171	175	3114.00	489449	58925	541853.50	862774	116404	0.46	200	0.002	22	0.04	226.48	236.42	45.32	Formation level at Water Works		
2	A	B	-do-	3	140	143	2574.00	398634	18255	452618.50	801264	113770	0.40	200	0.002	25	0.05	226.34	234.37	45.33	Ls. UGT = 235.40M		
3	B	C	-do-	4	112	116	2088.00	504162	24135	348497.00	291493	87560	0.62	150	0.005	38	0.29	229.28	234.18	44.90	Boiling Head = 45.00 M		
4	C	D	-do-	5	103	108	1854.00	287354	24135	312168.50	271153	78452	0.49	150	0.003	26	0.06	229.36	234.12	44.82	Hydraulic Head = 234.46 M		
5	D	E	-do-	6	94	100	1800.00	278450	24135	303783.00	203538	70520	0.45	150	0.003	54	0.29	229.28	233.96	44.88			
6	E	F	-do-	7	87	94	1680.00	262583	24135	287018.00	132302	72113	0.43	150	0.003	48	0.34	229.28	233.82	44.54			
7	F	G	-do-	8	74	77	1366.00	215177	24135	239511.50	169473	60177	0.38	150	0.002	71	0.34	229.40	233.66	44.28			
8	G	H	-do-	9	39	48	864.00	134136	24135	158471.00	104176	30310	0.47	100	0.005	28	0.29	229.40	233.29	43.29			
9	H	I	-do-	6	13	19	342.00	53996	0	63856.50	86578	12440	0.23	100	0.001	38	0.04	229.50	233.35	43.85			
10	I	J	-do-	10	0	10	180.00	27945	0	27945.00	18728	7021	0.16	100	0.001	38	0.03	229.55	233.32	43.77			
11	A	B1	-do-	28	0	28	304.00	78248	5000	85246.00	55775	20916	0.31	100	0.002	148	0.30	229.49	234.12	44.53			
12	D	B1	-do-	16	8	24	432.00	87058	28920	90738.00	64144	24054	0.34	100	0.003	126	0.37	229.49	234.00	44.51			
13	B1	B2	-do-	8	0	8	144.00	22258	28920	53136.00	34167	12830	0.23	100	0.001	55	0.05	229.60	233.94	44.34			
14	C	C1	-do-	9	0	9	182.00	25251	0	25150.50	16851	8378	0.16	100	0.001	83	0.07	229.33	234.11	44.88			
15	D	D1	-do-	3	0	3	24.00	8384	0	8383.50	5417	2158	0.16	100	0.001	26	0.02	229.30	234.10	44.80			
16	F	F1	-do-	30	0	30	180.00	27945	0	27945.00	18728	7021	0.16	100	0.001	38	0.04	229.36	233.76	44.42			
17	G	G1	-do-	23	0	23	414.00	54274	0	64273.50	43803	16140	0.23	100	0.001	77	0.08	229.50	233.60	44.30			
18	H	H1	-do-	30	0	30	360.00	50960	24135	80225.00	13051	20157	0.31	100	0.001	98	0.20	229.66	233.19	43.59			
19	I	I1	-do-	3	0	3	54.00	8384	0	8383.50	5417	2158	0.16	100	0.001	26	0.02	229.35	233.34	43.79			

**HYDRAULIC STATEMENT OF WATER SUPPLY (FLUSHING) RECYCLING OF TREATED SEWAGE WATER
SUBHEAD : FLUSHING WATER SUPPLY SCHEME - DESIGN CALCULATION**

S. No.	Line Reference	Type of Colony	Residential Plots				Population @ 10.00 Person per Plot	Water Requirement @ 155.25 LPCD	Other Water Requirement i.e. Commercial, Community Centre / banyan/other in LPD	Total Water Requirement in LPD	Water Requirement @ 33% of total water requirement	Peak Flow in LPS	Velocity (m/s)	Size of the pipe in (mm)	Total Friction Loss in K/M	Length in (m)	Loss of Head in Line (M)	Formation Level at Lower End	Available Head at Lower end (M)	Terminal Head (M)	Remarks
			From	To	Self	Branch	Total														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	STP	a	Plotted Area	2	171	173	3114.00	483449	581005	541454	2769330	67004	0.62	150	0.005	29	0.15	239.40	284.31	44.91	Formation Level at STP = 239.46 M
2	a	b	-40--	3	340	143	2574.00	399614	538005	450619	149954	56011	0.38	150	0.002	35	0.05	239.34	284.26	44.92	Boosting Head = 45.00 M
3	b	c	-40--	4	112	110	2086.00	324363	241335	348497	115004	43126	0.34	150	0.002	48	0.10	239.28	284.18	44.90	Flushing Hydraulic Head at STP = 284.46 M
4	c	d	-40--	0	203	103	1854.00	287834	241335	312169	203018	38831	0.28	150	0.002	37	0.02	239.30	284.14	44.84	
5	d	e	-40--	6	94	100	1800.00	279450	241335	305785	500289	37583	0.27	150	0.001	56	0.05	239.28	284.09	44.81	
6	e	f	-40--	7	87	84	1692.00	262883	241335	287018	94716	35518	0.27	150	0.001	44	0.04	239.28	284.05	44.77	
7	f	g	-40--	6	71	77	1386.00	215177	241335	336512	70038	29619	0.47	100	0.005	71	0.16	239.40	283.69	44.29	
8	g	h	-40--	9	39	48	864.00	134136	241335	158471	52295	19611	0.39	100	0.003	58	0.17	239.40	283.52	44.12	
9	h	i	-40--	6	13	29	342.00	53596	0	53596	17512	6571	0.16	100	0.001	39	0.04	239.50	283.48	43.98	
10	i	j	-40--	10	0	20	180.00	27845	0	27845	9212	3458	0.18	100	0.001	35	0.04	239.55	283.49	43.91	
11	j	k	-40--	28	0	28	504.00	78246	5000	83246	17471	10362	0.20	100	0.001	168	0.15	239.49	284.16	44.67	
12	k	l	-40--	16	8	24	432.00	67968	28670	95738	31594	11847	0.23	100	0.001	124	0.12	239.49	284.26	44.77	
13	l	m	-40--	8	0	8	144.00	22156	28670	51026	16939	6314	0.30	100	0.001	46	0.05	239.60	284.21	44.61	
14	m	n	-40--	9	0	9	162.00	25154	0	25154	8100	3112	0.18	100	0.001	74	0.07	239.25	284.04	44.81	
15	n	o	-40--	3	0	3	54.00	8384	0	8384	2767	3037	0.18	100	0.001	37	0.02	239.80	284.12	44.82	
16	o	p	-40--	10	0	10	180.00	27945	0	27945	9212	3458	0.18	100	0.001	32	0.02	239.36	284.02	44.66	
17	p	q	-40--	23	0	23	414.00	64274	0	64274	21210	7954	0.20	100	0.001	84	0.08	239.50	283.61	44.11	
18	q	r	-40--	29	0	29	580.00	85890	241335	80225	26474	9828	0.21	100	0.001	105	0.11	239.60	283.41	43.81	
19	r	s	-40--	5	0	5	90.00	13804	0	13804	4501	1657	0.14	100	0.001	37	0.02	239.55	283.46	43.91	

DESIGN STATEMENT OF SEWERAGE SCHEME

SURHEAD : SEWERAGE SCHEME - DESIGN CALCULATION

Sl. No.	User Reference	Type of Colony	Residential Plots	Sewer Branch Total	Population @ 18.00 persons per plot	Water Breakdown m ³ @ 125.25 lpcd (lpcd)	Other Requirements (A. Comm. / Community Building and other services)	Total water requirement (lpcd)	San. Quantity after impounding @ 20% (lpcd)	Storage (lpcd) (lpcd)	Size of Discharge (lpcd)	Velocity (m/s)	Carrying capacity of pipe (m ³ /sec)	Length (m)	Fall + Rise in the direction of slope (%)	Ground Level	Formation Level	Invert Level	Depth		
																			Start	End	Range
1	T	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	A	B	Pitavadi	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2	B	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	B	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4	B	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5	B	B	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
6	C	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
7	C	C	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
8	D	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
9	D	D	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10	E	E	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	F	F	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
12	G	G	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
13	G	G	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
14	H	H	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
15	H	H	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
16	I	I	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
17	J	J	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
18	K	K	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
19	L	L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
20	M	M	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
21	N	N	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
22	O	O	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
23	P	P	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
24	Q	Q	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
25	R	R	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
26	S	S	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
27	T	T	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

150 mm ID GI PIPE (BY PIPES)

Directorate of Town & Country Planning, Haryana

Nagar Yojana Bhavan, Plot no. 3, Sector-18 A, Madhya Marg, Chandigarh

Web site tcpharyana.gov.in - e-mail: tcpharyana7@gmail.com

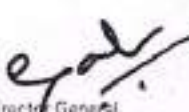
FORM LC -V

(See Rule 12)

License No. 139 of 2023

This License has been granted under the Haryana Development and Regulation of Urban Areas Act 1975 & the Rules 1976 made there under to Himanshu Garg S/o Shri Nitinand Garg, Nitinand Garg S/o Late Shri Kashmiri Lal, Smt. Nirmal Garg W/o Shri Nitinand Garg, And Jyoti Garg W/o Himanshu Garg, House No. 248, Sector-5, Gurugram-122001 to set up an Affordable Plotted Colony (DDJAY) on the land measuring 9.731 acres in the revenue estate of village Pataudi, Sector-4 Pataudi, Gurugram.

1. The particulars of the land, wherein the aforesaid affordable residential plotted colony is to be set up, are given in the schedule of land annexed hereto and duly signed by the Director, Town & Country Planning, Haryana.
2. The Licence is granted subject to the following conditions:-
 - a) That the affordable residential plotted colony will be laid out in confirmation to the approved layout/building plan and development works will be executed in accordance to the designs and specifications shown in the approved plans.
 - b) That the licensee shall abide by the Deen Dayal Jan Awas Yojna policy dated 08.02.2016, subsequent amendments from time to time and other direction given by the Director time to time to execute the project.
 - c) That the conditions of the agreements already executed are duly fulfilled and the provisions of Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made there under are duly complied with.
 - d) That the licensee shall maintain and upkeep of all roads, open spaces, public park and public health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces, public parks and public health services free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
 - e) That the licensee shall integrate the services with Haryana Shahari Vikas Pradhikaran services as and when made available.
 - f) That the licensee shall transfer 10% area of the licensed colony free of cost to the Government for provision of community facilities or develop such area on its own in accordance with clause 4(j) of policy dated 08.02.2016 amended vide notification dated 25.08.2022.
 - g) That the licensee shall transfer the part of licenced land falling under sector road/green belt free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3) (a) (iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.


Director General
Town & Country Planning
Haryana, Chandigarh

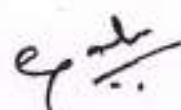
- h) That the licensee understands that the development/construction cost of 30 m/24 m/18 m major internal roads is not included in the EDC rates and they shall pay the proportionate cost for acquisition of land, if any, alongwith the construction cost of 30 m/24 m/18 m wide major internal roads as and when finalized and demanded by the Department.
- i) That the licensee shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.
- j) That the licensee shall make arrangements for water supply, sewerage, drainage etc to the satisfaction of DTCP till these services are made available from External Infrastructure to be laid by Haryana Shehri Vikas Pardhikaran or any other execution agency.
- k) That the licensee shall pay the differential amount if there will be any change in the said rates from the original calculation required to be deposited as and when demanded by the Department as the EDC have been charged on the basis of EDC Indexation Mechanism Policy dated 11.02.2016.
- l) That the licensee shall obtain clearance from competent authority, if required under Punjab Land Preservation Land Act, 1900 and any other clearance required under any other law.
- m) That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- n) That the provision of solar water heating system shall be as per guidelines of Haryana Renewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
- o) That the licensee shall use only LED fitting for internal lighting as well as campus lighting.
- p) That the licensee shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- q) That it will be made clear at the time of booking of plots/commercial space that specified rates include or do not include EDC. In case of not inclusion of EDC in the booking rates, then it may be specified that same are to be charged separately as per rate fixed by the Govt. You shall also provide detail of calculation of EDC per Sqm/per Sft to the allottees while raising such demand from the plot owners.
- r) That the licensee shall keep pace of development at-least in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- s) That the licensee shall arrange power connection from UHBVNL/DHBVNL for electrification of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which

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licencee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. UHBVNL/DHBVNL and complete the same before obtaining completion certificate for the colony.

- t) That the licensee shall complete the project within seven years (5+2 years) from date of grant of license.
 - u) That the licensee will pay the labour cess as per policy instructions issued by Haryana Government.
 - v) That the licensee shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled bank wherein licensee have to deposit thirty percentum of the amount received from the plot holders for meeting the cost of Internal Development Works in the colony.
 - w) That the licensee shall permit the Director or any other officer authorized by him to inspect the execution of the layout and the development in the works in the colony and to carry out all directions issued by him for ensuring due compliance of the execution of the layout and development works in accordance with the license granted.
 - x) That the licensee shall follow the provisions of the Real Estate (Regulations and Development) Act, 2016 and Rules framed there under shall be followed by the applicant in letter and spirit.
 - y) That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act, 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Acts.
 - z) That you shall obey all the directions/restrictions imposed by the Department from time to time in public interest.
 - aa) That no clubbing of residential plots for approval of integrated zoning plan of two adjoining plots under same ownership shall be permitted.
 - bb) That the aforesaid licence is being granted by considering the commercial component with FAR of 1.5. In case, you want to avail additional FAR of 1.75 for commercial component, you shall deposit the additional amount of fee and charges.
3. The licence is valid up to 05-07-2028.

Dated: 06-07-2023
Place: Chandigarh


(T.L. Satyaprakash, IAS)
Director General,
Town & Country Planning
Haryana, Chandigarh

Endst. No. LC-5014-JE (DS)-2023/ 22264

Dated: 07-07-2023

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

1. Himanshu Garg S/o Shri Nitinand Garg, Nitinand Garg S/o Late Shri Kashmiri Lal, Smt. Nirmal Garg W/o Shri Nitinand Garg, And Jyoti Garg W/o Himanshu Garg, House No. 248, Sector-5, Gurugram-122001 and LC-IV, Bilateral agreement.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Chief Executive Officer, GMDA, Gurugram.
5. Chief Administrator, Housing Board, Panchkula alongwith copy of agreement.
6. Managing Director, HVPN, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
7. Joint Director, Environment Haryana - Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.
8. Director Urban Estates, Haryana, Panchkula.
9. Administrator, HSVP, Gurugram.
10. Chief Engineer, HSVP, Gurugram.
11. Superintending Engineer, HSVP, Gurugram along with a copy of agreement.
12. Land Acquisition Officer, Gurugram.
13. Senior Town Planner, Gurugram.
14. Senior Town Planner (Enforcement), Haryana, Chandigarh.
15. District Town Planner, Gurugram along with a copy of agreement & Layout Plan.
16. Chief Accounts Officer (Monitoring) O/o DTCP, Haryana.
17. Accounts Officer, O/o Director, Town & Country Planning, Haryana, Chandigarh along with a copy of agreement.
18. PM (IT) for updation on the website.

(R.S. Batth)
District Town Planner (HQ)
For Director General, Town & Country Planning,
Haryana, Chandigarh

Detail of land owned by Himanshu Garg S/o Nitinand Garg 629/869 share, & Nitinand Garg S/o Kashmirilal 160/869 share & Smt. Jyoti Garg w/o Himanshu Garg 80/869 share:-

Village	Rect. No.	Killa No.	Area (K-M)
Pataudi	101	6/2/2	2-19
		14/2/1	3-0
		14/2/2	3-4
		15/1/1	3-4
		16/2/2	1-12
		16/3	1-12
		17/1/1	0-7
		17/1/2	2-0
		24/2	4-0
		25/1/1	1-19
	111	25/2/1	1-5
		4/2/1	3-16
		5/1	2-3
		7/1/2	3-8
		14/2/1	4-4
		17/1/2	1-5
		249/2/1/2/1	3-11
		Total	43-9

Detail of land owned by Smt. Nirmal Garg w/o Nitinand Garg:-

Village	Rect. No.	Killa No.	Area (K-M)
Pataudi	111	13	8-0
		14/1	3-4
		17/2	2-1
		18/1	7-3
		Total	20-8

Detail of land owned by Himanshu Garg S/o Nitinand Garg:-

Village	Rect. No.	Killa No.	Area (K-M)
Pataudi	101	17/1/3	2-0
		24/1	4-0
	111	4/1	4-0
		7/2	4-0
		Total	14-0
Grand Total			77-17

Or 9.731 acres

Director General
Town & Country Planning
Haryana, Chandigarh



हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI
VIKAS PRADHIKARAN

Tel. : 2570982
Toll Free No. : 1800-180-3030
Website : www.hsVP.in
Email : cencrhuda@gmail.com

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

CE-I No. 233791
Dated: 28/08/2024
Annexure-A

SUB:- Approval of service plan estimate for Affordable Plotted Colony (DDJAY-2016) over an area measuring 9.731 acres (License no. 139 of 2023 dated 06.07.2023) in the revenue estate of Village Pataudi, Sector-4, Pataudi Gurugram being developed by Himanshu Garg S/o Nitinand Garg, Nitinand Garg S/o Late Kashmiri Lal, Smt. Nirmal Garg W/o Nitinand Garg & Jyoti Garg W/o Himanshu Garg.

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.



हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI
VIKAS PRADHIKARAN

Tel. : 2570982
Toll Free No. : 1800-180-3030
Website : www.hsvp.in
Email : cencrhuda@gmail.com

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

9. A minimum 100 l/d C.I./D.I, 200mm i/d SW and 400mm Id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.
10. Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health Engineering Deptt. or HSVP. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
11. The X-section, width of roads, will be followed as approved by the Chief Town Planner, Haryana, Chandigarh. The kerbs and channels will also be provided as per approved X-section and specifications. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
12. The specifications for various roads will be followed as per IRC/MORTH specifications.
13. The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.
14. This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.

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

28/8/14