

LC-4308

**HSVP SUBMISSION REPORT
ON SERVICE PLAN AND ESTIMATE FOR
INTERNAL SERVICES
(SEWERAGE, STORM WATER DRAINAGE, WATER
SUPPLY, ROADWORK, FIRE FIGHTING &
HORTICULTURE WORK)**

FOR

**RESIDENTIAL PLOTTED DEVELOPMENT COLONY
(UNDER POLICY OF DDJAY-2016)
ON AN AREA MEASURING 12.70625 ACRES
IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS,
DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI**

**DEVELOPED BY
B M GUPTA DEVELOPERS PVT. LTD.**

5th floor, BMG City Centre, Elegant City,
Sector – 26, Garhi Bolni Road, Rewari – 123401 (Haryana)

**PLUMBING CONSULTANT
REM Konsultantz
Plot No. - 34, 1st floor, Starwood Floors,
Sector – 50, Gurugram - 122018**

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

REPORT

Rewari town of Haryana State is situated on Delhi - Jaipur National Highway No.48 at a distance of 70 kms from Indira Gandhi International Airport, Delhi. Being close to the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, Haryana Urban Development Authority has already developed residential sectors which are fully inhabited to an extent. Further due to the increasing demand, HSVP has planned to develop the new sectors in town. This report and estimate is prepared for approval of 12.70625 acres Plotted Colony (under policy of DDJAY-2016) in accordance with the layout/zoning plan.

This project is located in sector 26 & 27 and 69 meter (45 meter wide road +24 meter wide service road) wide road is passing through this project area. Therefore, this project has been divided into two part due to sector road and each part is with separate UGT & STP as per requirement.

WATER SUPPLY

It has been proposed to construct underground tanks of capacity as per attached details and at location for domestic purpose and for fire protection. The underground tanks will be fed from the HSVP/Tubewell supply, from there water will be supplied by set of variable frequency drive pump to each plot which is now a day universally adopted. The water supply system has been designed as per the Hazen William formula.

DESIGN

The scheme has been designed for population considering 18 persons for each plot. The rate of water supply per head/day has been taken as 135 + 15% liters per head per day.

PUMPING EQUIPMENTS

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

SEWERAGE SCHEME

This scheme is designed for sewer connecting the sewage treatment plant of ²⁹⁰320 KLD capacity in sector 26 and ²¹⁰235 KLD capacity in sector 27. Treated water will be used for horticulture & flushing purposes. Excess treated water will be pumped to the proposed HSVP sewer which shall be passing along the sector road. The sewerage system has been marked on the respective plans.

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Architect
C-80/12/34
M-9010891795



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

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

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

STORM WATER DRAINAGE

We proposed to lay underground R.C.C. NP~~2~~ 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 $\frac{3}{4}$ " 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

Roads have been provided to above zones and estimate is prepared as per revised specifications adopted by HSVP.

Street Lighting

Provision for street light also has been included in this estimate.

Horticulture

Estimates of plantation, landscaping etc., have been included.

Rates

The estimate has been prepared based on the present market rates.

Cost:

The total cost of the 12.70625 Acres scheme, including cost of all services works out to be Rs. ~~1213.46~~ ^{1251.69} Lacs (~~Rupees One Thousand Two Hundred Thirteen lacs and forty six thousands~~) including 3% contingencies & 49% departmental charges. Price escalation, unforeseen Admin charts.

B M GUPTA DEVELOPERS PVT. LTD.
For B.M. Gupta Developers Pvt. Ltd.


Authorized Signatory

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(UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE
DHALLAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI**

1. DETAILS FOR DAILY WATER DEMAND & PUMPING SYSTEM						
Water Demand						
S.N.	Description / Detail	population	Domestic Water Requirement (LPCD)	Total Domestic Water Requirement (LPD)	Flushing Water Requirement (LPCD)	Total Flushing Water Requirement (LPD)
A Sector - 26						
a	116 Nos plots @ 18.0 person per plot	2088	103.50	216108.00	51.75	108064.00
b	Commercial - FAR area 2036.793 - 1 person / 10 sq. m.	305	25.00	7625.00	20.00	6120.00
c	Visitors @ 10% of Commercial Population	31	5.00	155.00	10.00	310.00
d	Maintenance staff - LS	20	25.00	500.00	20.00	400.00
e	Green Area - 1262.70 sq. m. - 6 lt. per sq. m.					7756.20
	Total			224413.00		122640.20
	Total Fire demand = $100 \times (\text{pop.}/1000)^{0.5}$		145 KL			
A Sector - 27						
a	81 Nos plots @ 18.0 person per plot	1458	103.50	150933.00	51.75	75451.50
b	Community - 5143.28 sq. m. - 1 person / 10 sq. m.	514	25.00	12850.00	20.00	10280.00
c	Maintenance staff - LS	20	25.00	500.00	20.00	400.00
d	Green Area - 2966.38 sq. m. - 6 lt. per sq. m.					15392.28
	Total			164253.00		101523.78
	Total Fire demand = $100 \times (\text{pop.}/1000)^{0.5}$		145 KL			
	say $4437/1000 \times 73 = 70.21 \text{ KL}$					
2. Type of water & Type of Source						
			Sector - 26 IN KL	Sector - 27 IN KL	Total IN KL	
I.	Domestic water demand / day		225.00	164.00	389.00	
II	Total Fire demand = $100 \times (\text{pop.}/1000)^{0.5}$		145.00	145.00	290.00	100
III	Recycled water demand / day (From STP)		122.50	101.50	224.00	
3. TOTAL U.G. TANK CAPACITY						
Therefore it is proposed to construct under ground water tank of size						
i	Raw water Tank		70.11 KL	50.82 KL		
ii	Treated Water Tank		70.11 KL	50.82 KL		
iii	Fire tank		145.00 KL	145.00 KL		
iv	Recycled water tank (STP)		122.50 KL	101.50 KL		
4. HSP/OMDA main water supply calculation						
			Sector - 26	Sector - 27		
a	Required Fresh Water per Day		225	164 KL		
b	Supply Duration		12	12 Hrs		
c	Line Flow Rate		0.31	0.23 (Cum/min)		
d	Proposed line dia.		80	65 mm		
e	Flow Velocity		1.02	1.14 (m/sec)		
f	Friction Head Loss min/mtr		0.03	0.04 Mtr/Mtr		
g	Length of line		225	175 Mtr		
h	Total Head Loss		6.02	7.35 Mtr		
5. PUMPS FOR DOMESTIC WATER SUPPLY (HYDRO-PNEUMATIC SUPPLY)						
			Sector - 26	Sector - 27		
i	Potable Water Requirement Per Day		225	164 KL		
ii	Pumping duration per day		8	8 Hrs		
iii	Pump Flow		460.75	341.67 LPM		
iv	No of working pumps		2	2 Nos		
v	Pump Flow Each Pump		230.38	170.83 LPM		

say 240 LPM say 170 LPM

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Architect
CA/60/13236
MR 9210091761



For B.M. Gupta Developers Pvt. Ltd.

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	Pump Head				
vi	Suction lift		0	0	Mtr
vii	Residual head at farthest ferrule point		40	40	Mtr
viii	Level difference to ground to tank		5	5	Mtr
ix	Friction Head Loss		5	5	Mtr
x	Total head required		51	51	Mtr
	SAY		55	55	Mtr
xi	Power Required (Lpm*head (m))/(4500*70(eff)) = (390*40)/(4500*70)		4.7 9.88	3.6 3.46	HP(FOR EACH)
	say		5	5	HP(FOR EACH)
	It is proposed for domestic water transfer pump (2w+1s) with capacity		240335	170	LPM
6 PUMPS FOR FLUSHING CUM IRRIGATION WATER SUPPLY (HYDROPNUMATIC)					
			Sector -26	Sector -27	
i	Flushing cum Irrigation Water Requirement Per Day		123 120	102 101	KL
ii	Pumping duration per day		8	8	Hrs
iii	Pump Flow		256 250	213 210	LPM
iv	No of working pumps		2	2	Nos
v	Pump Flow Each Pump		128 120	106 105	LPM
	Pump Head				
vi	Suction lift		0	0	Mtr
vii	Residual head at ferrule point		25	25	Mtr
viii	Level difference to ground to tank		5	5	Mtr
ix	Friction Head Loss		5	5	Mtr
x	Total head required		35	35	Mtr
	SAY		40	40	Mtr
xi	Power Required (Lpm*head (m))/(4500*70(eff)) = (470*40)/(4500*70)		1.98 4.018	1.57 1.558	HP(FOR EACH)
	say		2.5	2.5	HP(FOR EACH)
	It is proposed for Flushing cum Irrigation Water transfer pump (2w+1s) with capacity 470 LPM		150	150	LPM
6	Equipment Description	No's	Each power cons (HP)	Each power cons (HP)	Total Power (HP)
i)	Domestic Water Trans Pumps For	(2W+1S)	10.00	10.00	20.00
ii)	Flushing cum Irrigation Water Transfer Pumps For	(2W+1S)	5.00	5.00	10.00
			15.00	15.00	30.00
			11.19	11.19	22.38
	Add for lighting		10.00	10.00	20.00
	Total		21.19	21.19	42.38
			26.49	26.49	52.98
	SAY		27.35	36.00	70.00
	STP CAPACITY				
80%	80% of total Domestic water demand		120 900	131 148	
20%	100% of total recycled water demand		92 449	70 662	
	Total		212 349	201 210	
	SEP CAPACITY REQUIRED		320	335	KLD

Add 5% marginal factor

14 10
286 KL 211 KL
say 290 KL say 210 KL

Total 290 + 210 = 500 KL

For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

S.
SANGEETA JAIN
Architect
CA/50/13234
M. 9910001701



ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

FINAL ABSTRACT OF COST

Description	Total of sub work	3% Contingencies and PE charges	TOTAL	49% departmental charges-price circulation & unforeseen-admin charges	Grand Total	To tal in Rs Lakh
Sub Work-1	9495000.00	284850.00	9779850.00	4794228.00	14574078.00	178.06
Water Supply	8840000.00	265200.00	9105200.00	4461548.00	13566748.00	171.38
Sub Work-2	11255000.00	339675.00	11594675.00	568852.00	12163527.00	129.84
Sewerage	7570800.00	227427.00	7798227.00	3821030.23	11619257.23	271.99
Sub Work-3	5262000.00	157860.00	5419860.00	2645637.40	8065497.40	48.75
Sub Drainage	5242000.00	157260.00	5399260.00	2645637.40	8044897.40	8.66
Sub Work-4	13723825.00	411714.75	14135539.75	6926414.48	21061954.23	
Road Works	13723825.00	411714.75	14135539.75	6926414.48	21061954.23	
Sub Work-5	3128563.00	95296.89	3223859.89	1603211.35	4827071.24	
Street Lighting	3128563.00	95296.89	3223859.89	1603211.35	4827071.24	
Sub Work-6	543003.00	16290.09	559293.09	274053.61	833346.70	
Plantation & Road side Trees/Horticulture	543003.00	16290.09	559293.09	274053.61	833346.70	
Sub Work-7	90974625.00	272937.48	91247562.48	44170773.75	135418336.23	342.88
MTC Charge and Resurfacing of Road	90974625.00	272937.48	91247562.48	44170773.75	135418336.23	1151.56
TOTALS	Rs. 79,067,946.00	2,372,937.48	Rs. 81,439,883.48	Rs. 39,906,677.21	Rs. 121,346,560.69	
Amount	Rs. 121,346,560.69					
Total Area of Project as per License		12.70625 Acre				Say Rs 1151.60 Lakh.
Net Cost Per Acre		Rs. 9,550,086.36				1151.60 / 12.70625 = Rs 90.63 Lakh.

Sr.
SANGEETA JAIN
Architect
CA/0013234
M. 9910091781



For B.M. Gupta Developers Pvt. Ltd.

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Checked subject to comments
in forwarding letter No. 145578
Dt. 24/08/2022 and notes
attached with the estimate

Service Plan estimate 1151.60
checked for Amending to Rs 121346 Lacs

Superintending Engineer (HQ)
for Chief Engineer-I
HSVP, Panchkula
22.8.2022
SDE(W)
24/8/2022

Executive Engineer
SVP Division Rewari
Superintending Engineer,
HSVP Circle, Gurugram

Director General
Town & Country Planning
Haryana, Chandigarh

**ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED
DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625
ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS,
SECTOR 26 & 27, REWARI**

Summary of Sub Work No. 1

S. No.	Heads	Description	Amount in Rs Lakh
1	Sub Head 1	HSVP Water Supply Rising main	823100.00 553100.00 7.40
2	Sub Head 2	Pumping and machinery	4286500.00 4126500.00 62.05
3	Sub Head 3	Domestic Water supply	3206800.00 3056800.00 30.73
4	Sub Head 4	Flushing/Irrigation System	1178600.00 1103600.00 15.84
Total			9445000.00 8840000.00 116.02
Add 3% contingency charges →			3.48
			119.50
Add 49% deht charges for escalation & admin charges			58.56
			<u>178.06</u>

S.
BANGSATHAN
ANDERSON
CA/9013234
M: 9910091765



For B.M. Gupta Developers Pvt. Ltd.

for
Authorised Signatory

SUB WORK No. 1

Sub Head 1

WATER SUPPLY
HSVP Water Supply Rising Main

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S No.	Description	Amount
A	HSVP Rising main	
1	Providing, laying, jointing and testing CI /DI pipe lines.	32880/-
a	80 mm dia - 274 mtr. @ Rs. 1000.00 per meter	274000.00
b	65 mm dia - 188 mtr. @ Rs. 700.00 per meter	131600.00
2	Providing and fixing sluice valve and air release valve Including cost of surface boxes and masonry chambers etc. complete in all respects	10000/-
a	80 mm dia - 1 No. @ Rs. 7500.00 Each	7500.00
b	65 mm dia - 1 No. @ Rs. 6000.00 Each	6000.00
3	Providing and fixing of Indicating plates for sluice valve and air valves	
a	2 Nos. @ Rs. 2000.00 Each	4000.00
4	Provision for carriage for materials and other unforeseen items (L/S)	50000.00
5	Provision for cutting of roads and making good to its original conditions (L/S)	50000.00
6	Provision for making connection with HSVP water main (L/S)	
	1 No. @ Rs. 50000.00 L.S.	50000.00
Total carried over to summary of Sub Work No. 1		553100.00

Total 739800/-

Say Rs 7.40 Lacs.



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

SUB WORK No. 1
Sub Head 2

WATER SUPPLY
Head works & Pumping and Machinery

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S No.	Description	Amount
1	Providing & installing pumping set of following capacity for Domestic Supply	
a	Cap. 235 LPM each pumps @ 55 mtr. 3 nos. @ Rs.75000.00 Each	225000.00
b	Cap. 170 LPM each pumps @ 55 mtr. 3 nos. @ Rs.55000.00 Each	165000.00
2	Providing & installing pumping set of following capacity for Flushing/Irrigation Pumps	
a	Capacity 150 LPM each pump @ 40 mtr. 6 nos. @ Rs.45000.00 Each	270000.00
3	Provisions for chlorination plant complete	
a	2 Nos. @ Rs.25000.00 Each	50000.00
4	Provision for making foundations and erection of pumping machinery	
	4 Sets @ Rs.17500.00 Each	70000.00
5	Provision for pipes, valves and specials inside the boosting chamber	
	4 Sets @ 20000.00 each	80000.00
6	Provision for electric connection including fittings	2,00,000/-
7	Provision for Gen Set.	
	2 Nos. x 35 KVA @ Rs.75000.00 each	150000.00
8	Provision for Plumbing Plant Room and 879 KL Capacity water Tank complete in all respect	
	879 KL @ Rs. 3500.00 per KL	3076500.00
9	Provision for carriage of material and other unforeseen items etc. L/S	40000.00
Total carried over to summary of Sub Work No. 1		4126500.00

10. Provision for consd. of boosting chamber. L/S 7,00,000/-

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Architect
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For B.M. Gupta Developers Pvt. Ltd.

11. Provision for staff quarter for male staff. L/S

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Say Re 62.05 Lakh

Rs 6205000/-

SUB WORK No. 1
Sub Head 3

WATER SUPPLY
Water Supply Distribution System

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S No.	Description	Amount
1	Providing, laying, jointing and testing DI pipe lines including fittings, valves, cost of excavation etc. complete in all respects.	2486380/-
a	100 mm dia - 1703.00 mtr. @ Rs. 1460/- per meter	2724800.00
2	Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.	144000/-
a	100 mm dia 12 Nos. @ Rs. 12000/- Each	60000.00
3	Providing and fixing External Fire Hydrants including chamber	156,000/-
a	10 Nos. @ Rs. 12500.00 Each	125000.00
4	Providing and fixing air release valve and scour valve	40,000/-
	4 Nos. @ Rs. 10,000/- each	12000.00
5	Indication plate for valves, hydrant ARV etc.	52000/-
	26 Nos @ Rs 2000/-	10000.00
6	Provision for carriage of materials and other unforeseen items	1,00,000/-
		75000.00
7	Provision for cutting of roads and making good to its original conditions (L/S)	20000.00
		50000.00
		1,00,000/-
		3766800.00
		3056800.00
	Total carried over to summary of Sub Work No. 1	Total Rs 3072380/-

say Re 30.73 Lakh

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ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE
DHALLAWAS, DHAMLAKE & DEVLAWAS, SECTOR 26 & 27, REWARI

Domestic Water supply hydraulic calculation																		
S No.	Line No	Number of plots	Population @18 persons	Daily water Demand 103.50 Liter per/Person	Others building Name	water cons. in ltr /day for other buildings	Self Total water demand ltr /day	Branch water demand ltr /day	Total water demand ltr /day	Peak water demand@3 of daily water demand ltr	Length of Pipe	Effective Length (actual length+ 20%)	Proposed line dia.	Velocity in m/sec	Frictional head losses	Total Frictional head losses	Cumulative Frictional head losses	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		NOS	NOS	LPD		LPD	LPD	LPD	LPD	LPD	LPM	Mtr	Mtr	MM	Mtr/sec	Mtr/Mtr	Mtr	Mtr
	Sector -26																	
1	D1-D2	10	180	18630.0			18630.0	0.0	18630.0	55890	38.8	78	94	100	0.0988	0.0002	0.0182	0.0182
2	D2-D4	0	0	0.0			0.0	18630.0	18630.0	55890	38.8	6.6	8	100	0.0988	0.0002	0.0015	0.0197
3	D3-D4	19	342	35397.0			35397.0	0.0	35397.0	106191	73.7	153	184	100	0.1877	0.0006	0.1171	0.1171
4	D4-D6	0	0	0.0			0.0	54027.0	54027.0	162081	112.6	38	48	100	0.2865	0.0014	0.0637	0.2005
5	D5-D6	19	342	35397.0			35397.0	0.0	35397.0	106191	73.7	155	186	100	0.1877	0.0006	0.1187	0.1187
6	D6-D8	0	0	0.0			0.0	89424.0	89424.0	268272	186.3	6.6	8	100	0.4741	0.0035	0.0281	0.3473
7	D7-D8	21	378	39123.0			39123.0	0.0	39123.0	117369	81.5	167	200	100	0.2074	0.0008	0.1539	0.1539
8	D8-D10	0	0	0.0			0.0	128547.0	128547.0	385641	267.8	38	46	100	0.6816	0.0070	0.3170	0.8182
9	D9-D10	21	378	39123.0	Commercial	7650	46773.0	0.0	46773.0	140319	97.4	180	216	100	0.2480	0.0011	0.2309	0.2309
10	D10-D12	0	0	0.0			0.0	175320.0	175320.0	525960	365.3	6.6	8	100	0.9296	0.0123	0.0978	1.1469
11	D11-D12	26	468	48438.0			48438.0	0.0	48438.0	145314	100.9	210	252	100	0.2568	0.0011	0.2874	0.2874
12	D12 - Pump Room 2	0	0	0.0			0.0	223758.0	223758.0	671274	466.2	6	7	100	1.1864	0.0194	0.1397	1.5740
	Sector 27																	
13	D13-D15	3	54	5589.0			5589.0	0.0	5589.0	16767	11.6	16	19	100	0.0296	0.0000	0.0004	0.0004
14	D14-D15	13	234	24219.0			24219.0	0.0	24219.0	72657	50.5	95	114	100	0.1284	0.0003	0.0360	0.0360
15	D15-D17	0	0	0.0			0.0	29808.0	29808.0	89424	62.1	6.6	8	100	0.1580	0.0005	0.0037	0.0401
16	D16-D17	12	216	22356.0			22356.0	0.0	22356.0	67068	46.6	87	104	100	0.1185	0.0003	0.0284	0.0284
17	D17-D19	6	108	11178.0			11178.0	52164.0	63342.0	190026	132.0	38	46	100	0.3359	0.0019	0.0855	0.1540
18	D18-D19	12	216	22356.0			22356.0	0.0	22356.0	67068	46.6	87	104	100	0.1185	0.0003	0.0284	0.0284
19	D19-D21	1	18	1863.0			1863.0	85698.0	87561.0	262683	182.4	6.6	8	100	0.4643	0.0034	0.0270	0.2095
20	D20-D21	12	216	22356.0			22356.0	0.0	22356.0	67068	46.6	89.5	107	100	0.1185	0.0003	0.0293	0.0293
21	D21-D23	0	0	0.0	Community Building	12850	12850.0	109917.0	122767.0	368301	255.8	38	46	100	0.6509	0.0064	0.2911	0.5298
22	D22-D23	12	216	22356.0			22356.0	0.0	22356.0	67068	46.6	87	104	100	0.1185	0.0003	0.0284	0.0284
23	D23-D24	0	0	0.0			0.0	145123.0	145123.0	435369	302.3	6.6	8	100	0.7695	0.0087	0.0689	0.6272
24	D24-D26	0	0	0.0			0.0	145123.0	145123.0	435369	302.3	30	36	100	0.7695	0.0087	0.3133	0.9405
25	D25-D26	10	180	16200.0			16200.0	0.0	16200.0	48600	33.8	65	78	100	0.0859	0.0002	0.0117	0.0117
26	D26-Pump Room 1	0	0	0.0			0.0	161323.0	161323.0	483969	336.1	6	7	100	0.8554	0.0106	0.0762	1.0284



SANDEEP JAIN
ARCHITECT
CANNARA
M: 9812591161

For B.M. Gupta Developers Pvt.Ltd.
Authorized Signatory

**ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL
PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA
MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS,
DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI**

DOMESTIC WATER SUPPLY (MB)					
S No.	Line No	Length	Dia	100 mm	150 mm
	Sector -26				
1	D1-D2	78	100	78.00	
2	D2-D4	6.6	100	6.60	
3	D3-D4	153	100	153.00	
4	D4-D6	38	100	38.00	
5	D5-D8	155	100	155.00	
6	D6-D8	6.6	100	6.60	
7	D7-D8	167	100	167.00	
8	D8-D10	38	100	38.00	
9	D9-D10	180	100	180.00	
10	D10-D12	6.6	100	6.60	
11	D11-D12	210	100	210.00	
12	D12 - Pump Room 2	6	100	6.00	
	Sector 27				
13	D13-D15	16	100	16.00	
14	D14-D15	95	100	95.00	
15	D15-D17	6.6	100	6.60	
16	D16-D17	87	100	87.00	
17	D17-D19	38	100	38.00	
18	D18-D19	87	100	87.00	
19	D19-D21	6.6	100	6.60	
20	D20-D21	89.5	100	89.50	
21	D21-D23	38	100	38.00	
22	D22-D23	87	100	87.00	
23	D23-D24	6.6	100	6.60	
24	D24-D26	30	100	30.00	
25	D25-D26	65	100	65.00	
26	D26-Pump Room	6	100	6.00	
TOTAL		1703		1703.10	
Total number of fire hydrant				10 Nos.	

S
SANGEETA JAIN
Architect
CARRIES/2254
M. 9910601781



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

SUB WORK No. 1
Sub Head 4

WATER SUPPLY
Flushing & Irrigation Distribution System

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S No.	Description	Amount
1	Providing, laying, jointing and testing Upvc pipe lines including fittings, cost of excavation etc. complete in all respects.	1138050/-
a	65 mm dia - 1686.00 mtr. @ Rs. 600.00 ⁶⁷⁵ per meter	1011600.00
2	Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.	117000/-
a	65 mm dia 13 Nos. @ Rs. 3000.00 ^{9000/-} Each	39000.00
3	Providing and fixing 20 mm dia Garden Hydrant	35000/-
a	10 Nos. @ Rs. 1000.00 ^{3500/-} each	10000.00
4	Providing and fixing air release valve and scour valve	40,000/-
	4 Nos. @ Rs. 2000.00 ^{10,000/-} each	8000.00
5	Indication plate for valves, Garden hydrant etc. (L/S)	54000/-
	27 Nos @ Rs. 2000/-	10000.00
6	Provision for carriage of materials and other unforeseen items	100,000.00
7.	Provision for cutting of roads & making good the same	25000.00
	Total carried over to summary of Sub Work No. 1	1138050/-
		<u>1584050/-</u>

S.
SANGEET JAIN
Architect
CA50V13234
M. 9210891761



say Rs 15.84 Lakh

For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

Flushing Water supply hydraulic calculation																		
S No.	Line No	Number of plots	Population @18 persons	Daily water Demand 51.75 Liter per/Person	Others building Name	water cons in ltr /day for other buildings	Self Total water demand ltr /day	Branch water demand ltr /day	Total water demand ltr /day	Peak water demand@3 of daily water demand ltr	Length of Pipe	Effective Length (actual length+ 20%)	Proposed line dia.	Velocity in m/sec	Frictional head losses	Total Frictional head losses	Commulative Frictional head losses	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		NOS	NOS	LPD		LPD	LPD	LPD	LPD	LPD	Mtr	Mtr	MM	Mtr/sec	Mtr/Mtr	Mtr	Mtr	
Sector - 26																		
1	F1-F3	21	378	19561.5			19561.50	0.00	19561.50	58684.5	155.00	186.00	65	0.2455	0.0017	0.3225	0.323	
2	F2-F3	5	90	4657.5			4657.50	0.00	4657.50	13972.5	39.00	46.80	65	0.0585	0.0001	0.0057	0.006	
3	F3-F5	0	0	0.0			0.00	24219.00	24219.00	72657	8.40	10.08	65	0.3039	0.0026	0.0260	0.354	
4	F4-F5	21	378	19561.5			19561.50	0.00	19561.50	58684.5	157.00	188.40	65	0.2455	0.0017	0.3267	0.3267	
5	F5-F7	0	0	0.0	Commercial	6120	6120.00	43780.50	49900.50	149701.5	36.00	43.20	65	0.6262	0.0098	0.4243	1.105	
6	F6-F7	21	378	19561.5			19561.50	0.00	19561.50	58684.5	157.00	188.40	65	0.2455	0.0017	0.3267	0.327	
7	F7-F9	0	0	0.0			0.00	69462.00	69462.00	208385	8.40	10.08	65	0.8717	0.0181	0.1827	1.615	
8	F8-F9	19	342	17698.5			17698.50	0.00	17698.50	53095.5	157.00	188.40	65	0.2221	0.0014	0.2714	0.271	
9	F9-F11	0	0	0.0			0.00	87160.50	87160.50	261481.5	36.00	43.20	65	1.0938	0.0276	1.1919	3.078	
10	F11-F12	9	162	8383.5			8383.50	87160.50	95544.00	266632	87.00	104.40	65	1.1990	0.0327	3.4144	6.492	
11	F10-F12	10	180	9315.0			9315.00	0.00	9315.00	27945	70.00	84.00	65	0.1169	0.0004	0.0369	0.037	
12	F12-F14	0	0	0.0			0.00	104859.00	104859.00	314577	8.40	10.08	65	1.3159	0.0389	0.3916	6.921	
13	F13-F14	10	180	9315.0			9315.00	0.00	9315.00	27945	80.00	96.00	65	0.1169	0.0004	0.0421	0.042	
14	F14-STP	0	0	0.0			0.00	114174.00	114174.00	342522	5.00	6.00	65	1.4328	0.0455	0.2729	7.236	
Sector - 27																		
15	F15-F17	3	54	2794.5			2794.50	0.00	2794.50	8383.50	15.00	18.00	65	0.0351	0.0000	0.0008	0.001	
16	F16-F17	13	234	12109.5			12109.50	0.00	12109.50	36328.50	97.00	116.40	65	0.1520	0.0007	0.0830	0.083	
17	F17-F19	0	0	0.0			0.00	14904.00	14904.00	44712.00	8.40	10.08	65	0.1870	0.0010	0.0106	0.094	
18	F18-F19	12	216	11178.0			11178.00	0.00	11178.00	33534.00	88.00	105.60	65	0.1403	0.0005	0.0650	0.065	
19	F19-F21	6	108	5589.0			5589.00	26082.00	31671.00	95013.00	36.00	43.20	65	0.3975	0.0042	0.1828	0.342	
20	F20-F21	12	216	11178.0			11178.00	0.00	11178.00	33534.00	88.00	105.60	65	0.1403	0.0006	0.0650	0.065	
21	F21-F23	1	18	931.5			931.50	42849.00	43780.50	131341.50	8.40	10.08	65	0.5494	0.0077	0.0777	0.161	
22	F22-F23	12	216	11178.0			11178.00	0.00	11178.00	33534.00	88.00	105.60	65	0.1403	0.0006	0.0650	0.065	
23	F23-F25	0	0	0.0	Community Building	10280	10280.00	54958.50	65238.50	195715.50	36.00	43.20	65	0.8187	0.0161	0.6970	0.923	
24	F24-F25	12	216	11178.0			11178.00	0.00	11178.00	33534.00	88.00	105.60	65	0.1403	0.0006	0.0650	0.065	
25	F25-F27	0	0	0.0			0.00	76416.50	76416.50	229249.50	8.40	10.08	65	0.9590	0.0216	0.2180	1.206	
26	F26-F27	10	180	9315.0			9315.00	0.00	9315.00	27945.00	96.00	115.20	65	0.1169	0.0004	0.0506	0.051	
27	F27-F28	0	0	0.0			0.00	85731.50	85731.50	257194.50	20.00	24.00	65	1.0759	0.0268	0.6422	1.898	
28	F28-STP	0	0	0.0			0.00	95046.50	95046.50	285139.50	5.00	6.00	65	1.1928	0.0324	0.1943	2.093	



SANDEEP JAIN
Sole Proprietor
CA 0010304
M. 9910031761

For S.M. Gupta Developers Pvt. Ltd.
Authorized Signatory

**ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL
PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA
MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS,
DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI**

FLUSHING WATER SUPPLY (MB)						
S No.	Line No	Length	Dia	65 mm	100 mm	150 mm
	Sector - 26					
1	F1-F3	155.00	65	155.00		
2	F2-F3	39.00	65	39.00		
3	F3-F5	8.40	65	8.40		
4	F4-F5	157.00	65	157.00		
5	F5-F7	36.00	65	36.00		
6	F6-F7	157.00	65	157.00		
7	F7-F9	8.40	65	8.40		
8	F8-F9	157.00	65	157.00		
9	F9-F11	36.00	65	36.00		
10	F11-F12	87.00	65	87.00		
11	F10-F12	70.00	65	70.00		
12	F12-F14	8.40	65	8.40		
13	F13-F14	80.00	65	80.00		
14	F14-STP	5.00	65	5.00		
	Sector - 27					
15	F15-F17	15.00	65	15.00		
16	F16-F17	97.00	65	97.00		
17	F17-F19	8.40	65	8.40		
18	F18-F19	88.00	65	88.00		
19	F19-F21	36.00	65	36.00		
20	F20-F21	88.00	65	88.00		
21	F21-F23	8.40	65	8.40		
22	F22-F23	88.00	65	88.00		
23	F23-F25	36.00	65	36.00		
24	F24-F25	88.00	65	88.00		
25	F25-F27	8.40	65	8.40		
26	F26-F27	96.00	65	96.00		
27	F27-F28	20.00	65	20.00		
28	F28-STP	5.00	65	5.00		
TOTAL		1686		1686	0	0

S
SANGEETA JAIN
Architect
CA/0013234
M. 9810691791



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S No.	Description	Amount
1	Providing, Lowering, jointing and cutting SW pipe class A lines into trenches including cost of Manholes & Cost of excavation etc. complete in all respects as per standard section. <i>1700/-</i>	<i>1885300/-</i>
a	200 mm dia - 1109.00 mtr. @ Rs. <i>1500/-</i> per Meter	1663500
2	Providing, laying, jointing and testing Sewer by-pass pipe lines <i>150</i> mm <i>140</i> mm <i>10</i> kg/sqcm including fittings, Manholes & cost of excavation etc. complete in all respects. <i>2340/-</i>	<i>461400/-</i>
	236.00 Meter @ Rs. <i>900/-</i> per Meter	212400
3	Provision for providing oblique function. (L.S)	<i>90000/-</i>
4	Provision for carriage of materials and other unforeseen items <i>cutting of roads & making good the same.</i>	50000
5	Providing STP of capacity	500000
a	<i>290</i> 320 KLD @ Rs. <i>16000/-</i> per KL	3200000 <i>4640000</i>
b	<i>210</i> 235 KLD @ Rs. <i>10000/-</i> per KL	2350000 <i>3360000</i>
6	Provision for temporary timbering etc. (L.S)	25000 <i>100000</i>
7	Provision for providing vent shaft at suitable places as per P.H. requirements (L.S.)	20000 <i>900000</i>
8	Provision for making connection with HSVP sewer line. <i>200000</i>	50000
	2 Nos. @ Rs. <i>100000/-</i> Each	100000
Total carried over to summary of Sub Work No. 2		7570900 <i>1,00,000/-</i>
9.	<i>Provision for lighting watchman & temporary diversion of Traffic.</i>	<i>1,00,000/-</i>
Total		<i>11166700/-</i>
Add 3% Contingency charge		<i>335001/-</i>
		<i>Re 11501701/-</i>
Add 49% depts charges, unforseen & admin. charges.		<i>5635833/-</i>
		<i>Re 17137534/-</i>
Say Re 171.38 Lakh,		



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S No.	Description	Amount
1	Providing, Lowering, jointing and cutting SW pipe class A lines into trenches including cost of Manholes & Cost of excavation etc. complete in all respects as per standard section. <i>1700/-</i>	<i>1885300/-</i>
a	200 mm dia - 1109.00 mtr. @ Rs. 1500.00 <i>1500</i> per Meter	1663500
2	Providing, laying, jointing and testing Sewer by-pass pipe lines <i>150</i> mm 140 mm <i>10</i> kg/sqcm including fittings, Manholes & cost of excavation etc. complete in all respects. <i>2340/-</i>	<i>461400/-</i>
	236.00 Meter @ Rs. 900.00 <i>900</i> per Meter	212400
3	Provision for providing oblique function. (L.S)	<i>90000</i>
4	Provision for carriage of materials and other unforeseen items <i>cutting of roads & making good the same.</i>	50000
5	Providing STP of capacity	50000
a	<i>290</i> 320 KLD @ Rs. 10000.00 <i>16000</i> per KL	3200000 <i>4640000</i>
b	<i>210</i> 235 KLD @ Rs. 10000.00 <i>16000</i> per KL	2350000 <i>3360000</i>
6	Provision for temporary timbering etc. (L.S)	25000 <i>100000</i>
7	Provision for providing vent shaft at suitable places as per P.H. requirements (L.S.)	20000 <i>200000</i>
8	Provision for making connection with HSVP sewer line. <i>200000</i>	50000
	2 Nos. @ Rs. 50000.00 <i>100000</i> Each	100000
Total carried over to summary of Sub Work No. 2		7570900
9.	<i>Provision for lighting watchman & temporary diversion of Traffic.</i>	<i>1,00,000/-</i>
Total		11166700/-
Add 3%. Contingency charge		<i>335001/-</i>
		Re 11501701/-
Add 49%. deptsr charges. unforseen & admin. charges.		<i>5635833/-</i>
		Re 17137534/-
Say Re 171.38 Lakh,		



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY UNDER POLICY OF DDJAY - 2016 ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALLAWAS, DHAMLA & DEVLAWAS, SECTOR 26 & 27, REWARA

(SEWERAGE DESIGN)

Sl	LINE	No of Plot served	Population @ 10 persons per plot	Water Requirement @ 120+15% LPO/person	OTHER BUILDINGS				Total Daily Water Requirement in Litre	Av. Sewer load 80% of Water Requirement		Subsidiary Information @25% of Av. Load	Branch Discharge		Length of line	Dia of Pipe	Slope 1 in 100	Fall in line	Velocity in m/sec	Capacity of Pipe	CHECK FOR EXISTING CAPACITY	Levels at Start		Levels at End		Starting Depth of MH	End depth of MH	
					Area in Acre	Type of BUILDING	Ratio of Water Requirement LPO	Total water requirement for other buildings [LPO]		LPD	LPS		LPD	LPS								Ground level at Start	Invert level at Start	Ground level at End	Invert level at End			
1	S1-S2	25	414	84274					84274	51419	154258	12855	16711	0	16711	1.93	84	200	225	0.37	10.94	OK	246.40	245.45	245.08	245.08	0.95	1.30
2	S2-S4	0	0	0					0	0	0	0	16711	0	16711	1.93	45	200	225	0.20	10.94	OK	246.40	245.08	244.88	244.88	1.32	1.50
3	S3-S4	20	360	55890					55890	44712	134135	11178	145314	0	145314	1.68	71	200	225	0.32	10.94	OK	246.40	245.45	245.13	245.13	0.95	1.27
4	S4-S5	0	0	0					0	0	0	0	312425	0	312425	3.62	45	200	225	0.20	10.94	OK	246.40	244.88	244.88	244.88	1.52	1.72
5	S5-S12	10	342	53095					53095	42476	127429	10519	138048	0	138048	5.21	71	200	225	0.32	10.94	OK	246.40	244.88	244.88	244.88	1.72	2.04
6	S6-S8	19	342	53095					53095	42476	127429	10519	138048	0	138048	1.60	85	200	225	0.29	10.94	OK	246.40	245.45	245.16	245.16	0.95	1.24
7	S7-S8	5	90	12150					12150	9720	29160	2430	31560	0	31560	0.37	37	200	225	0.16	10.94	OK	246.40	245.45	245.29	245.29	0.95	1.11
8	S8-S10	0	0	0					0	0	0	0	169538	0	169538	1.96	45	200	225	0.20	10.94	OK	246.40	245.18	244.96	244.96	1.24	1.44
9	S9-S10	20	360	49900					49900	38880	116880	9720	126360	0	126360	1.46	75	200	225	0.35	10.94	OK	246.40	245.45	245.10	245.10	0.95	1.30
10	S10-S11	0	0	0					0	0	0	0	295968	0	295968	3.43	45	200	225	0.20	10.94	OK	246.40	244.95	244.78	244.78	1.44	1.64
11	S11-S12	10	180	24300	0.5033 Acre	Commercial	25000 ltr/acm	12583	30883	26405	88518	7377	95855	295968	391803	4.54	94	200	225	0.42	10.94	OK	246.40	244.76	244.34	244.34	1.84	2.08
12	S12-S13	0	0	0					0	0	0	0	842366	0	842366	9.75	10	200	225	0.04	10.94	OK	246.40	244.35	244.32	244.32	2.04	2.08
13	S13-S17	0	0	0					0	0	0	0	842366	0	842366	9.75	5	200	225	0.03	10.94	OK	246.40	244.29	244.27	244.27	2.11	2.15
Section 27																												
14	S14-S16	25	450	60750					60750	48600	145800	12150	157950	0	157950	1.83	97	200	225	0.43	10.94	OK	246.40	245.45	245.02	245.02	0.95	1.30
15	S16-S18	3	54	7290					7290	5832	17496	1450	19854	0	19854	0.22	18	200	225	0.08	10.94	OK	246.40	245.45	245.37	245.37	0.95	1.03
16	S18-S19	9	108	14580					14580	11684	34662	2916	37800	176804	214812	2.49	45	200	225	0.20	10.94	OK	246.40	245.07	244.82	244.82	1.38	1.56
17	S17-S18	24	432	58320					58320	46656	139668	11664	151632	0	151632	1.76	89	200	225	0.40	10.94	OK	246.40	245.45	245.05	245.05	0.95	1.35
18	S18-S20	1	18	2430	1.2715 Acre	Community Building	18000 ltr/acm	22887	25317	20264	60761	5063	65824	368444	432268	5.00	45	200	225	0.20	10.94	OK	246.40	244.82	244.62	244.62	1.58	1.78
19	S19-S20	22	396	53460					53460	42785	128304	10582	138956	0	138956	1.61	89	200	225	0.40	10.94	OK	246.40	245.45	245.05	245.05	0.95	1.35
20	S20-S21	0	0	0					0	0	0	0	571264	0	571264	6.61	25	200	225	0.11	10.94	OK	246.40	244.82	244.40	244.40	1.78	1.80
21	S21-S27	0	0	0					0	0	0	0	571264	0	571264	6.61	5	200	225	0.03	10.94	OK	246.40	244.51	244.49	244.49	1.82	1.91



SANDEEP JAIN
 Address: CA-9031324
 M. 9910917151

For B.M. Gupta Developers Pvt. Ltd.
 Authorized Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

MATERIAL STATEMENT FOR SEWER

Sl. No.	LINE	Length of line	Dia of Pipe	DIA OF PIPE				
				IN (MM)				
	Sector - 26	Mtr	MM	200	250	300	400	500
1	S1-S2	84	200	84	-	-	-	-
2	S2-S4	45	200	45	-	-	-	-
3	S3-S4	71	200	71	-	-	-	-
4	S4-S5	45	200	45	-	-	-	-
5	S5-S12	71	200	71	-	-	-	-
6	S6-S8	66	200	66	-	-	-	-
7	S7-S8	37	200	37	-	-	-	-
8	S8-S10	45	200	45	-	-	-	-
9	S9-S10	78	200	78	-	-	-	-
10	S10-S11	45	200	45	-	-	-	-
11	S11-S12	94	200	94	-	-	-	-
12	S12-S13	10	200	10	-	-	-	-
13	S13-STP	5	200	5	-	-	-	-
	Sector - 27							
14	S14-S16	97	200	97	-	-	-	-
15	S15-S16	18	200	18	-	-	-	-
16	S16-S18	45	200	45	-	-	-	-
17	S17-S18	89	200	89	-	-	-	-
18	S18-S20	45	200	45	-	-	-	-
19	S19-S20	89	200	89	-	-	-	-
20	S20-S21	25	200	25	-	-	-	-
21	S21-STP	15	200	5	-	-	-	-
TOATL		1119		1109	0	0	0	0

S.
SANGHVI JAIN
Architect
CA/02/1234
M. 9910291781



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S No.	Description	Amount
1	Providing, lowering, jointing RCC pipe with specials into trenches class NP-2 manholes etc. complete in all respects, excavation backfil, disposal at surplus & earth.	3160,000/-
a	400 mm dia - 1264 mtr. @ Rs. ^{2500/-} 1750.00 per meter	2212000.00
2	Provision for lighting and watching and temporary diversion of traffic	^{1,00,000/-} 200000.00
3	Provision for road gullies & connecting pipe L.S.	^{5,00,000/-} 250000.00
4	Provision for carriage of materials and other unforeseen items <i>culture of roads & making good to same.</i>	^{200,000.00} 60000.00
5	Provision for rainwater harvesting arrangements at suitable places -	^{42,00,000/-} 2400000.00
a	12 Nos. @ 200000.00 each ^{350,000/-}	^{100,000.00} 200000.00
6	Provision for timbering & shoring (L.S.)	^{100,000.00} 100000.00
7	Provision for making connection with HSVP/GMDA Mains on master road and making good to its original condition (L.S.)	^{2,00,000/-} 100000.00
Total carried over to summary of Sub Work No. 3		5862000.00 5242000.00 84,60,000/-



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

Add 3% Contingency charge → ^{253800/-}
Rs 8713800/-

Add 49% dep'th. charge
price escalation & unforeseen items) ^{4269762/-}
Rs 12983562/-

Say Rs 129.84 Lakh.

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALAWAS, DHAMLAKA & DEVIJAWAS, SECTOR 26 & 27, REWARI

DESIGN CALCULATION FOR STORM LINE														
SL. NO.	NAME OF THE LINE		AREA TO BE SERVED IN Sqmtr.			DISCHARGE @ 1/4" RAIN FALL		FINAL DISCHARGE	SIZE OF PIPE DRAIN (IN MM)	VELOCITY	DISCHARGE CAPACITY OF PIPE	Check	LENGTH OF PIPE	SLOPE
	FROM	TO	SELF	PREVIOUS	TOTAL	6.25MM/HR (l/m3/sec)	6.25MM/HR (l/m3/sec)	(in lps)	(in mm)	(in m/sec)	(in lps)		(in mtrs.)	(in mtrs.)
Sector 26														
1	D 01	D 02	563	0	563	0.001	0.001	1.0	400	0.68	68.09	OK	40	450
2	D 02	D 03	161	563	724	0.001	0.001	1.3	400	0.68	68.09	OK	32	450
3	D 03	D 04	2446	724	3170	0.006	0.006	5.5	400	0.68	68.09	OK	75	450
4	D 04	D 05	2382	3170	5552	0.010	0.010	9.6	400	0.68	68.09	OK	76	450
5	D 05	RWH 3	3171	5552	8723	0.015	0.015	15.1	400	0.68	68.09	OK	6	450
6	D 05	D 06	0	8723	8723	0.015	0.015	15.1	400	0.68	68.09	OK	23	450
7	D 07	D 08	2286	0	2286	0.004	0.004	4.0	400	0.68	68.09	OK	90	450
8	D 08	D 10	2388	2286	4674	0.008	0.008	8.1	400	0.68	68.09	OK	84	450
9	D 09	D 10	1182	0	1182	0.002	0.002	2.1	400	0.68	68.09	OK	31	450
10	D 09	RWH 1	1182	0	1182	0.002	0.002	2.1	400	0.68	68.09	OK	5	450
11	D 10	RWH 2	3169	5856	9025	0.016	0.016	15.7	400	0.68	68.09	OK	7	450
12	D 10	D 06	3169	5856	9025	0.016	0.016	15.7	400	0.68	68.09	OK	45	450
13	D 06	D 12	0	17748	17748	0.031	0.031	30.8	400	0.68	68.09	OK	37	450
14	D 11	D 12	2053	0	2053	0.004	0.004	3.6	400	0.68	68.09	OK	14	450
15	D 12	RWH 4	510	19801	20311	0.035	0.035	35.3	400	0.68	68.09	OK	10	450
16	D 12	D 13	510	19801	20311	0.035	0.035	35.3	400	0.68	68.09	OK	27	450
17	D 13	D 17	0	20311	20311	0.035	0.035	35.3	400	0.68	68.09	OK	29	450
18	D 14	D 15	2449	0	2449	0.004	0.004	4.3	400	0.68	68.09	OK	24	450
19	D 15	D 16	0	2449	2449	0.004	0.004	4.25	400	0.68	68.09	OK	89	450
20	D 16	D 17	2295	2449	4744	0.008	0.008	8.2	400	0.68	68.09	OK	30	450
21	D 17	RWH 5	1400	25055	26455	0.046	0.046	45.9	400	0.68	68.09	OK	5	450
22	RWH 5	Outfall-1	0	26455	26455	0.046	0.046	45.9	400	0.68	68.09	OK	5	450
Sector 27														
1	D 18	D 19	2457	0	2457	0.004	0.004	4.3	400	0.68	68.09	OK	80	450
2	D 20	D 21	6920	0	6920	0.012	0.012	12.0	400	0.68	68.09	OK	80	450
3	D 19	D 21	2733	2457	5190	0.009	0.009	9.0	400	0.68	68.09	OK	45	450
4	D 21	D 22	2724	12110	14834	0.026	0.026	25.8	400	0.68	68.09	OK	45	450
5	D 22	D 23	2725	14834	17559	0.030	0.030	30.5	400	0.68	68.09	OK	80	450
6	D 23	RWH 6	2124	17559	19683	0.034	0.034	34.2	400	0.68	68.09	OK	10	450
7	D 23	D 24	2124	17559	19683	0.034	0.034	34.2	400	0.68	68.09	OK	35	450
8	D 24	RWH 7	3661	19683	23344	0.041	0.041	40.5	400	0.68	68.09	OK	5	450
9	D 24	D 25	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	16	450
10	D 25	RWH 8	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	14	450
11	D 25	D 26	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	16	450
12	D 26	RWH 9	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	5	450
13	D 26	D 27	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	34	450
14	D 27	RWH 10	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	5	450
15	D 27	Outfall-2	0	23344	23344	0.041	0.041	40.5	400	0.68	68.09	OK	10	450



Sd/-
 BANGSIJA JAIN
 Architect
 CA/6013204
 M- 9310801761

For B.M. Gupta Developers Pvt. Ltd.

Authorized Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

MATERIAL STATEMENT OF STORM WATER LINES

SL. NO.	NAME OF THE LINE		SIZE OF PIPE DRAIN (IN MM)	LENGTH OF PIPE (In mtrs.)	Length of line in mtr.		
	FROM	TO			400 mm	500 mm	600 mm
			(In mm)	(In mtrs.)			
Sector 26							
1	D 01	D 02	400	40	40		
2	D 02	D 03	400	32	32		
3	D 03	D 04	400	75	75		
4	D 04	D 05	400	76	76		
5	D 05	RWH 3	400	6	6		
6	D 05	D 06	400	23	23		
7	D 07	D 08	400	90	90		
8	D 08	D 10	400	84	84		
9	D 09	D 10	400	31	31		
10	D 09	RWH 1	400	5	5		
11	D 10	RWH 2	400	7	7		
12	D 10	D 06	400	45	45		
13	D 06	D 12	400	37	37		
14	D 11	D 12	400	14	14		
15	D 12	RWH 4	400	10	10		
16	D 12	D 13	400	27	27		
17	D 13	D 17	400	29	29		
18	D 14	D 15	400	24	24		
19	D 15	D 16	400	89	89		
20	D 16	D 17	400	30	30		
21	D 17	RWH 5	400	5	5		
22	RWH 5	Outfall-1	400	5	5		
Sector 27							
1	D 18	D 19	400	80	80		
2	D 20	D 21	400	80	80		
3	D 19	D 21	400	45	45		
4	D 21	D 22	400	45	45		
5	D 22	D 23	400	80	80		
6	D 23	RWH 6	400	10	10		
7	D 23	D 24	400	35	35		
8	D 24	RWH 7	400	5	5		
9	D 24	D 25	400	16	16		
10	D 25	RWH 8	400	14	14		
11	D 25	D 26	400	16	16		
12	D 26	RWH 9	400	5	5		
13	D 26	D 27	400	34	34		
14	D 27	RWH 10	400	5	5		
15	D 27	Outfall-2	400	10	10		
Total Quantity					1264		

S. SANDHEJA JAIN
Architect
CAR/01/2024
M: 9010891751



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY
(UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE
DHALIAWAS, DHAMLAKE & DEVLAWAS, SECTOR 26 & 27, REWARI

S. No.	Description	Amount
1	Provision for leveling & earth filling as per site condition 12.70625 Acres @ Rs. 100000.00 per Acre <i>175000/-</i>	<i>2223594/-</i> 1270625.00
2a	<i>2m</i> P/L <i>150</i> mm thick GSB Confirming to MORTH Specification	
2b	<i>2.50</i> P/L 100 mm thick (compacted) WMM with earth as per MORTH Specification using 53-22.5 size stone aggregate. The rate is Inclusive of all labour, material & equipment etc.	
2c	<i>DBM</i> 50 mm thick <i>BM</i> with 40 mm <i>BC</i> 30 mm <i>BC</i> <i>82m</i> 8420 Sq.m. @ Rs 1200.00 per sq.m.	<i>12300000/-</i> 10104000.00
3	Providing of Channels of CC1:2.5:5 (one side on 9 & 10 m wide road and both sides on <i>24 m</i> wide road <i>12 m</i> <i>28m</i> 2332 meter @ Rs. 600.00 / meter <i>12 m X 2 = 2800 m</i>	<i>1689000/-</i> 799200.00
4	Provision for guide map and other unforeseen item L.S. <i>at selected places</i>	<i>1,00,000/-</i> 200000.00
5	Provision for plot indicators L.S.	<i>1,00,000/-</i> 300000.00
6	Provision for demarcating burgies L.S.	<i>1,00,000/-</i> 150000.00
7	Provision for traffic arrangement L.S.	<i>1,00,000/-</i> 300000.00
8	Provision for making approach to each plot <i>consist of Pavement & Pavement w/</i> <i>common area @ 50% C.E. 1019 Sqm @ Rs 1000/-</i>	<i>1019000/-</i> 500000.00
9	Provision for carriage of material & unforeseen items L.S.	100000.00
Total carried over to summary of Sub-Work No. 4		<i>13723825.00</i> <i>17722594/-</i>



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

Add 3% contingency charges

531678/-

Rs 18254272/-

Add 4% deficit charges, price escalation & admin charges

Rs 8944593/-

Rs 27198865/-

Say Rs 271.99 Lakh.

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

MATERIAL STATEMENT FOR ROAD						
S.NO	NODE	WIDTH	LENGTH	WIDTH WITH PATHWAY		
				9	10	12
Sector -26						
1	R1- R2	10	56	-	56	-
2	R3- R4	9	80	80	-	-
3	R5- R6	9	211	211	-	-
4	R7- R8	9	160	160	-	-
5	R9- R10	9	159	159	-	-
6	R11- R12	8.10	80	80	80	-
7	R13- R14	12	33	-	-	33
Sector - 27						
8	R15- R16	12	11	-	-	11
9	R17- R18	12	85	-	-	85
10	R19- R20	12	124	-	-	124
11	R21- R22	9	78	78	-	-
12	R23- R24	9	78	78	-	-
13	R25- R26	9	78	78	-	-
14	R27- R28	9	98.50	99	-	-
TOTAL				943	136	253
				1023	56	
				5.50	5.50	
BLACK TOP WIDTH				5.7	5.7	6
AREA IN Sqm				5828	319	1518
				5187	748	
TOTAL AREA in Sqm				7453	7665	
Odd Area RA 1					287	
Odd Area RA 2					67	
Sub Total				7807	8019	
Add 5% for curves				391	401	
TOTAL AREA in Sqm				8198	8420	
				Say	8200 Sqm.	

SANDEEP JAIN
Architect
CA/10/13234
M. 9910891701



For B.M. Gupta Developers Pvt.Ltd.

Authorised Signatory

Total length of Roads = 1332 Mtr
+ 5% for curves = 67 Mtr
1399 Mtr
Say 1400 Mtr

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S. No.	Description	Amount (INR)
1	Providing street lighting on roads as per standard specifications of HVPN.	

12.70625 Acres @ Rs. 250000/- per Acre

Add 3.1% contingency charges —

3176563.00

95297

3271860-00

3176563.00

Total carried over to summary of Sub Work No. 5

Add 4.5% depler charge, price escalation & admin charge.

1603211-00

Total 4875071-00



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

Sag Rs 48.75 Lakh

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S. No. Description Rate (INR)

1 Development of Green areas

- a Trenching the ordinary soil up to depth of 60 cm including removal and stacking of serviceable material and disposing of by spreading and leveling within a lead to 50m and making up the trenches area of proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported sweat earth and manure

b Rough dressing of root area

Grassing with "Doob Grass" including watering and maintenance of lawns for 30 days till the grass a thick lawn, free weeds and fit for moving in rows 7.5m apart in either direction including provision for hedges and barbed wire fencing around park.

0.95335 Acres @ Rs. 150000/= per acre

142950/-
143003.00

2 Planting Tree

- a Provision of trees, along 9, 10 & 12 M wide roads at 12 Mtr intervals.

$(1400 \div 12) \times 2 = 234 \text{ Nos @ Rs 1800/-}$

421200/-
400000.00

564150/-

Add 3% contingency charges $\rightarrow 16925/-$
Total carried over to summary of Sub Work No. 6 543003.00

581075/-



Add 4% depth charges
For B.M. Gupta Developers Pvt. Ltd.
284727/-
865802/-

Authorised Signatory

Say Rs 8.66 Lakh.

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF RESIDENTIAL PLOTTED DEVELOPMENT COLONY (UNDER POLICY OF DDJAY - 2016) ON AN AREA MEASURING 12.70625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHALIAWAS, DHAMLAKA & DEVLAWAS, SECTOR 26 & 27, REWARI

S. No.	Description	Rate (INR)
1	Provision for M/C charges for water supply, storm water drainage, sewerage, Road, Street lighting, Horticulture etc. complete in all aspect, including Operational and establishment charges as per HUDA norms for 10 years completion 12.70625 Acres @ 2500000.00 per acre	10165000/- 31765625.00
2	Provision for resurfacing of roads after 5 years 50 mm thick BM layer 32 mm thick BC complete with seal cost 8420 sq.m. @ Rs. 550.00 / Sq.M.	5412000/- 4631000.00
3	Provision for resurfacing of roads after 10 years with 32 mm thick BC premix carpet with seal coat with mech. paver 8420 sq.m. @ Rs. 500.00 / Sq.M.	6765000/- 3575000.00
Total carried over to summary of Sub Work No. 7		39971625.00 22342000/-



For B.M. Gupta Developers Pvt. Ltd.

Authorised Signatory

Add 3% contingency charges → 670260/-
Re 23012260/-

Add 4% deprec charges
price escalation & admin charges] 11276007/-
Total. Re 34288267/-

say Re 342.88 Lakh