

**DDJAY PLOTTED DEVELOPMENT IN SECTOR - 3,
BERI, JHAJJAR, HARYANA. TO BE DEVELOPED BY
M/S ARMAAN BUILD TECH PVT. LTD.**

EXTERNAL SERVICE ESTIMATE

ARCHITECT



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Architecture

Interior

Planning

Vastu

For ARMAAN BUILDTECH PVT. LTD.

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PROJECT

Affordable Plotted Colony Under Deen Dayal Jan Awas Yojna-2016 (Licence No. 203 of 2025 dated 16.10.2025 on area measuring 13.59375 Acres at Sector - 3, Beri, Distt - Jhajjar, Haryana

SUBJECTS

PROJECT REPORT / ESTIMATES FOR PROVIDING EXTERNAL SERVICES (WATER SUPPLY, FIRE, SEWERAGE & STORM WATER DRAINAGE, GARDEN HYDRANT & STREET LIGHTING)

Beri is a city and a municipal committee in the Jhajjar district in the Indian state of Haryana. It was founded by Kadyan Jat people. The city is a trading centre. Beri is one of the largest tehsils of Haryana, including 77 villages. Beri is situated on the road connecting Gurgaon to Hisar and Kosli (Rewari) to Rohtak. This is the middle of these four cities. The First Chief Minister of Haryana, Bhagwat Dayal Sharma, was from Beri. The town has a temple dedicated to the goddess Mata Bhimeshwari Devi and Lord Krishna. Beri Tehsil has 80% Jaat population. After Beri assembly established in 1967 always Jaat MLA elected from this seat. Beri assembly comes under Rohtak Lok Sabha constituency.

As of the 2011 census Beri had a population of about 30,000. Males constitute 54% of the population and females 46%. Beri has an average literacy rate of 70% higher than the national average of 59.5%, with 57% of the males and 43% of female's literate.

Water Supply

1. Source

The source of water supply in this area is tube well as underground water is sweet and fit for human consumption, moreover, the water is available at reasonable depth, and the average yield of Tube wells, with approximate 60 to 80-meter depth will be about 15 KL per hour. 3 No. Tube wells are required to meet with the daily requirement of water till to city supply made available.

2. Tube wells

The proposed tube wells shall be 510 mm bore drilled with reverse rotary rig and installed with 80 mm i/d housing pipe and 50 mm i/d slotted tube as strainer. The provision taken in the estimate under the sub-head tube well includes the cost of pea gravel packing. The lift of tube well is limited due to incrustation and rusting of strainer. Therefore, out of these tube wells the drilling of tube wells will be done for 3 Nos. tube wells and further tube wells will be drilled as the demand develops till the scheme is handed over the department.

3. Pump Chambers and Pumping Machinery

It is proposed to occupy each tube well with an electricity driven pumping set-submersible pump capable of delivering about 15000 Liters per hour. It has been proposed to install pumping set as described with standby of equal capacity.

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4. Under Ground Storage

Underground tank 60% storage of one day storage of total daily demand of water supply have been proposed at one location in the scheme. The same shall be fed by Tube well at present and shall be later augmented through HSVP mains canal supply at later date.

6. Distribution System

The distribution system for this development has been designed for 172.5 Liters per person per day @3.0 times the average rate of flow on "Hazen Williams" formula with C-100. Necessary provision for laying D.I. pipes only conforming to relevant IS standards along with valves and specials has been made in this Estimate.

7. Rising Main

Rising mains from HSVP water main on sector road to water works have also been designed and provision for D.I. pipe line has been made in this estimate

8. Sewerage

The internal sewer lines have also 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. All the SW pipes, sewer has been designed to run half/full/three fourth full.

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

Necessary provision for laying SW/DWC pipes sewer lines and manholes etc. has been made in this estimate.

9. Storm water drainage

It has been proposed to lay underground RCC-NP3 pipe drains on the road widths 9.0 M. to lay underground drains. The intensity of rain fall has been taken as 1/4th inch per hour. The internal storm water drains will be jointed into external storm water drainage to be laid by HSVP on sector dividing roads. Necessary provision for curves and channels has been made in the estimate. The estimate for these closed drains has been included as sub work no. III A minimum size of 400 mm RCC storm water line will be provided.

10. Specifications

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

11. Roads

Cost of road has been taken in the estimate

12. Street Lighting

Provision for street lighting on surrounding area has been made.



13. **Horticulture**

Estimates and details of plantation, landscaping, signage's etc. has been included.

14. **Specifications**

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

15. **Rates**

The estimate has been based on the present market rates and probable escalation in prices.

16. **Cost**

The total cost of the Scheme including cost of all services works out to **Rs 1323.08 lakhs** including 3% contingencies and 49% departmental charges, unfrozen, price escalation and admin charges.

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PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT**SUBJECT: FINAL ABSTRACT OF COST**

		Amount in Rs. Lakhs
SUB WORK NO. I	WATER SUPPLY SCHEME	294.63
SUB WORK NO. II	SEWERAGE SCHEME	202.60
SUB WORK NO. III	STORM WATER DRAINAGE	97.84
SUB WORK NO. IV	ROADS & FOOT PATHS	294.78
SUB WORK NO. V	STREET LIGHTING	52.16
SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	7.87
SUB WORK NO. VII	MTC CHARGES INCL RESURFACING OF ROADS AFTER 1st 5 YEARS AND 2nd YEAR OF MTC AS/HUDA	373.20
	TOTAL	1323.08

TOTAL : (Rupees Thirteen Crores Twenty three Lakhs and Eight Thousand Only)/-

Cost Per Acre = 1323.08 Lakh / 13.59375 acres = 97.33 Lakh per gross acre.

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SUB WORK No. 1 (Abstract of Cost)		Water Supply & Fire Fighting	
1	Sub Head No. 01	Head Works	Rs.1,07,50,600
2	Sub Head No. 02	Pumping Machinery	Rs.28,70,000
3	Sub Head No. 03	Rising Main	Rs.5,70,600
4	Sub Head No. 04	Distribution System	Rs.50,06,700
		TOTAL	Rs.1,91,97,900
		Add 3% contingencies & PH Charges	Rs.5,75,937.00
		TOTAL	Rs.1,97,73,837
		Add 49% Departmental charges + Price escalation	Rs.96,89,180
		TOTAL	Rs.2,94,63,017
		Say in lacs	294.63

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Sub Work No. 1
Sub Head No. 01

Water Supply
Head Works

Amount in Rs.

1. Boring and installing tube well with reverse Rotary Rig Complete with pipe and strainer to a depth of about 120 meter in all respect Total -3 No. @ Rs. 15,00,000/- each.	Rs.45,00,000
2. Provision for rising mains, connecting tube wells with UGT Tanks including Valve & NRV a) 100 mm dia - 110m @ Rs. 1460/-	Rs.1,60,600
3. Providing Tube well Submersible Pumps : Capacity 15000 LPH at 88 M head , 3 Nos. @ Rs. 200,000/-each	Rs.6,00,000
4. Construction of UG Tanks 380 KL(including fire watr tank)+200kl flushing water tank=580kl @ Rs. 5500/KL.	Rs.31,90,000
5. Provision of Construction of Tube well Chambers of Size 1.5X1.5X1.5 m tube well - 3 Nos @ Rs.100000 each	Rs.3,00,000
6. Provision for Carriage of material & other unforeseen items	Rs.2,00,000
7. Provision for footpath, lawn, boundary wall around tubewell & waterworks (L.S)	Rs.3,00,000
8. Construction of boosting chamber (L.S.)	Rs.5,00,000
9. Provision for staff offices & for maintenance staff	Rs.10,00,000
TOTAL	Rs.1,07,50,600

(C/O To Abstract of Cost for Sub work No.1)

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Sub Work No. 1 Sub Head No. 02	Water Supply Pumping Machinery	Amount in Rs.
1A. Providing and installing electricity driven Domestic Transfer pumping Set capable of delivering about 500 LPM of water against a total Head of 45 M complete with motor and other accessories including Valve (10 HP) & NRV. 3 (2+1) Nos. @ 200000/- Each		Rs.6,00,000
1B. Providing and installing electricity driven Flushing & Garden pumping Set capable of delivering about 300 LPM of water against a total Head of 45 M complete with motor and other accessories including Valve (5.0 HP) & NRV. 3(2+1) Nos. @ 140000/- Each		Rs.4,20,000
2. Provision for making foundations and erection of Pumping Machinery: - Lump Sum		Rs.2,00,000
3. Provision for electric service connection including electrical Fittings for tube-well and boosting chamber etc. - Lump Sum		Rs.2,00,000
4. Provision for pipes, valves and specials inside boosting chamber. (L.S)		Rs.2,50,000
5. Provision for carriage of material		Rs.2,00,000
6. Provision for chlorination plant etc		Rs.1,00,000
7. Provision for diesel engine generator set each for stand by arrangement for tubewell is boosting pump craft etc.(75kVA)		Rs.9,00,000
TOTAL		Rs.28,70,000
(C/O To Abstract of Cost for Sub work No.I)		

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Sub-Work No. 1
Sub Head No. 03

Water Supply
Rising Main from HSVP

	Amount in Rs.
1. Providing , laying , jointing and testing pipe lines including Cost of excavation etc. complete in all respects, 100 mm dia. D.I. Pipe 210 m @ Rs. 1460/M-	Rs.3,06,600
2. Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respects, 100 mm i/d , @ Rs. 12000/-per valve, 1 nos	Rs.12,000
3. Providing and fixing indicating plates for sluice valve and air Valves. -1 @ Rs. 2000/- each	Rs.2,000
4. Provision for carriage for materials (Lump Sum)	Rs.50,000
5. Making Water Supply Connection,including road cut with HSVP master line.	Rs.1,00,000
6. Provision for roads cut and make up good condition	Rs.1,00,000
TOTAL	Rs.5,70,600

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Sub Work No. 1

Water Supply
Water Distribution System (Domestic
And Flushing)

Sub-Head No. 04

Amount in Rs.

1. Providing , Laying , jointing and testing D.I pipe line including fittings, valves, cost of excavation etc. complete in all respect.	
D.I Pipe 100 mm , 2755(1310+1445) M @ Rs.1460/- per meter	Rs.40,22,300
D.I Pipe 150 mm , 110m(70+40) @ Rs.2040/- per meter	Rs.2,24,400
2. Providing and fixing 20 mm dia. irrigation hydrant Valve,Chamber & Cover Etc. complete in all respect. 18 Nos. @ Rs. 5000/ each	Rs.90,000
3. Provision for carriage of materials (Lump Sum)	Rs.2,00,000
4. Provision for cutting of road and making its good condition	Rs.1,00,000
5. Provision for air valve 14 No. and sluice valve complete with masonry chamber (L.S)	Rs.2,50,000
6. Providing & Fixing indicating plates for sluice valve,air valve (L.S)	Rs.20,000
7. Providing & Fixing fire hydrant complete with masonry chamber(L.S)	Rs.1,00,000
Total	Rs.50,06,700

(C/O To Abstract of Cost for Sub work No.1)

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Sub-Work No. II

SEWERAGE SCHEME

Amount in Rs.

1. Providing, jointing, cutting and testing SW pipe class "A" and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc. complete in all respect	
a) SW pipe 200 0 mm i/d , 1460M @1700/-per m	Rs.24,82,000
b) SW pipe 250 0 mm i/d , 50M @2000/-per m	Rs.1,00,000
2. Rising main from STP to MH	
a) 200 mm dia 460 m @ Rs. 2150/m	Rs.9,89,000
3. STP Cap.620 KLD upto tertiary level, complete in all respect @14000/- per kl	Rs.86,80,000
4. Provision for making HSVP Connection on main line (L.S)	Rs.1,00,000
5. Provision for watering & lighting	Rs.2,50,000
6. Provision for vent pipe as per P.H. requirements at suitable places	Rs.3,00,000
7. Provision for cutting of roads and making good condition	Rs.1,00,000
8. Provision for timbering & shovering (L.S)	Rs.2,00,000
Total	Rs.1,32,01,000
Add 3% contingencies & PH charges	Rs.3,96,030
Total	Rs.1,35,97,030
Add 49% Price Escalation, Departmental charges	Rs.66,62,545
TOTAL	Rs.2,02,59,575
SAY IN LACS	202.60
(Cost to Final abstract of cost)	

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Sub-Work No. III

STORM WATER SCHEME

Amount in Rs.

1. Providing and laying R.C.C. pipe drain class NP-3 With cement joint ,Catch Basins & Road Gullies, manholes excavation etc complete in all respect.	
a) 400 mm dia. 930 M @ Rs. 2500/m	Rs.23,25,000
b). Providing Rain Harvesting arrangements, complete in all respects(if applicable 8 Nos @ Rs 250,000	Rs.20,00,000
2. Provision for Carriage of Material (L.S)	Rs.3,00,000
3. Provision for watering & timbering and unforeseen (L.S)	Rs.3,00,000
4. Provision for connection with HSVP line	Rs.1,00,000
5. Provision for Road gullies and cement (L.S)	Rs.3,50,000
6. Provision for watering & lighting	Rs.1,00,000
7. Provision for temporary disposal arrangements till HSVP services are provided.	Rs.8,00,000
8. Provision for road cutting and making road to its in original condition.L.S	Rs.1,00,000
Total	Rs.63,75,000
Add 3% for contingencies and PH charges	Rs.1,91,250
Total	Rs.65,66,250
Add 49% Departmental charges	Rs.32,17,463
TOTAL (Cost to Final abstract of cost)	Rs.97,83,713
SAY IN LACS	97.84

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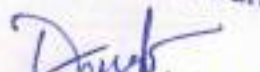
PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT

SUBJECT: WATER DEMAND CALCULATIONS

S. No.	Unit Type	Category as per latest NBC	Total No. of Plots	Total Area (In Sqm)	Persons considered per plot as per HSVP norms	Total Population	LPCD Factor for Potable Water Req.	LPCD Factor for Flushing Water Req.	Potable Water Requirement (LPD)	Flushing Water Requirement (LPD)	Total Water Requirement (LPD)
I.	DOMESTIC WATER DEMAND										
1	Plots	Residential	245		18	4410	103.50	51.75	456435.0	228217.5	6,84,653
2	Commercial Block	Business		1107.568 sqm or 0.27369 ac			32000 Ltr./ Acre		5867.9	2890.2	8,758
3	Community Facilities			5501.7 or 1.3595 ac			25000 Ltr./ Acre		22771.6	11215.9	33,988
	Total								485074.5	242323.5	727398
	Grand Total								4,85,075	242324	7,27,398
	Say in Cum/day								485	242	727
II.	HORTICULTURAL WATER DEMAND										
(a)	Total Green area = 1.0205 Acre @ 25000 litre/ Acre(say)										25312.5
(b)	Road Washing = Area under Roads out of 13.59375 Acre = 2.71975 Acre @ 5000 litre/ Acre(say)										13593.75
	Total, Say (in Cum. per day)										39.2
	TOTAL WATER REQUIREMENTS FOR ALL PURPOSES										767
III.	TUBE WELLS										
(a)	Yield									15	Kl/Hr
(b)	Working Hours per Day									12	Hours per Day
	Discharge per Tube well									180	
(c)	Total Fresh water demand									485	m ³ /day
(d)	Number of Tube wells required.									2.70	
(e)	Add 10% as standby									0.27	
	Total									2.96	Nos.
	Say									3.00	Nos.

(Water to the proposed development is to be supplied by HSVP and it is proposed to install the tube-wells for augmentation/standby purposes)

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IV. PUMPING MACHINERY FOR TUBEWELLS

(a)	Gross Working Head		
(b)	Average fall in S.L.	60	Meters
(c)	Depression Head	2	Meters
(d)	Friction loss in main	6	Meters
	Total	10	Meters
		78	Meters
(e)	Discharge		
(f)	Horse Power	15000	LPH
	HP = $(15000 \times 78 \times 1) / (60 \times 60 \times 75 \times 0.6)$	7.22	HP
	Say	10.00	HP

V. UNDER GROUND TANK

(a)	Total water demand (Daily for Domestic purposes)		
	Capacity of U.G. tank @ 60 % 485	485	m ³ /day
(b)	Proposed capacity of underground tanks (Raw + Domestic) for domestic use. $(25+33\%) = 58\%$ (SAY 60%) storage of (One day Storage) = $0.6 \times 485 = 291$ say 300 kl		
(c)	Proposed capacity of underground static tank for fire = $100 \times \text{sqroot of } 4410/1000 = 210 \text{ KL} = 1/3 \times 2108 = 70 \text{ KL}$ say 80 kl	300.0	m ³
	TOTAL	80.00	m ³
		380	kl
(d)	Flushing Water 242 KL @ 60% = 145.2 KL		
(e)	Horticulture Water = 39.2 KL	145.2	kl
	TOTAL	39.2	kl
	Say	184.4	kl
I (A)	BOOSTING MACHINERY (Water Supply Pumps)	200	kl

(a)	Daily Domestic Water Demand		
(b)	Discharge per hour @ 9 hr. pumping / day	485	m ³ /day
	Say	53.90	m ³ /Hour
(c)	No. of Working pump (2 working + one standby)	900.0	LPM
(d)	Proposed Pump discharge (Working)	2.0	
	Say	450.00	LPM
		500.00	LPM
	Gross Working Head		
(a)	Suction lift - positive suction		
(b)	Frictional Loss in Mains & Specials	6	Meters
(c)	Max Clear Head required	9	Meters
	Total	30	Meters
		45	Meters

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g)	H.P. of each pump required		
	Pump H.P.	8.33	HP
	Say	10.00	HP

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II. BOOSTING MACHINERY (Flushing & Garden Supply Pumps from STP)			
a)	Daily Flushing & Horticultural Water Demand.	282	m ³ /day
b)	Discharge per hour @ 8 hr. pumping / day	35.20	m ³ /Hour
	Say	590.00	LPM
c)	No. of Working pump	2	
d)	Proposed Pump discharge (Working)	295.00	LPM
	Say	300.00	LPM
Gross Working Head			
e)	Suction lift - positive suction	6	Meters
f)	Frictional Loss in Mains & Specials	9	Meters
g)	Max Clear Head required	30	Meters
	Total	45	Meters
h)	H.P. of each pump required (Pump H.P.)	5.00	HP
	Say	5.00	HP

III. GENERATING SETS			
1	HP of Tube well pump = 3 X 10 = 30	30.00	
2	HP of Domestic water supply Pump = 2 X 10 = 20	20.00	
3	HP of Flushing water supply Pump = 2 X 5 = 10	10.00	
4	Add for lighting	5.00	
	Total	65.00	HP
	in KVA = 79 X 0.746 * 1.5	72.74	KVA
	SAY	75.00	KVA

III. STP CAPACITY			
1	Total water required Domestic + Flushing	727	KL
2	Water go to STP @ 80%	581.92	
3	Add for 5 % for margin	29.096	
	TOTAL	611.016	
	SAY	620.00	KL

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PROJECT: EXTERNAL SERVICES ESTIMATE FOR DAULAT PLANNED DEVELOPMENT

SUBJECT: SEWERAGE SYSTEM DESIGN SHEET

S. No.	Sewer Line	No. of Flats	Population / FLOT	Total Population	Water Supply	Total Water Requirement	Sewage Discharge (LPI)			Average Sewage Discharge	Peak Sewage Discharge	Size of Pipe			Velocity	Design Discharge	Length of Line	Slope	Fall in Meters		Ground level		Invert Level		Depth of M/R		Average depth of pipe	
					LPCD	LPI	Self	Branch	Total	LPS	LPI	Circle	Side	Depth	M/S	Circle	Meters		As per slope	As Per Gradient	Start	End	Start	End	Start	End		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
	From	To																										
1	1	3	8	18	144	155.25	22.556	17.885		17.885	0.207	0.62	0.02	300	2.82	0.74	0.61	42	200	0.210	0.000	0.00	0.00	-1.20	-1.41	1.20	1.41	1.31
2	2	3	18	18	324	155.25	50.901	40.241		40.241	0.466	1.40	0.05	200	2.42	0.74	0.61	75	200	0.375	0.000	0.00	0.00	-1.20	-1.58	1.20	1.58	1.39
3	3	5	8	18	144	155.25	22.556	17.885	58.126	76.010	0.880	2.64	0.09	200	2.42	0.74	0.61	41	200	0.205	0.000	0.00	0.00	-1.58	-1.78	1.58	1.78	1.68
4	4	5	18	18	324	155.25	50.901	40.241		40.241	0.466	1.40	0.05	200	2.42	0.74	0.61	75	200	0.375	0.000	0.00	0.00	-1.20	-1.58	1.20	1.58	1.39
5	5	6	5	18	90	155.25	13.973	11.478	1.16.231	1.29.429	1.473	4.42	0.15	200	2.42	0.74	0.61	29	200	0.145	0.000	0.00	0.00	-1.78	-1.93	1.78	1.93	1.85
6	6	7	4+1 COMMUNITY	18	72	155.25	49.466	36.152	1.27.429	1.63.582	1.893	5.65	0.20	200	2.42	0.74	0.61	33	200	0.165	0.000	0.00	0.00	-1.93	-2.09	1.93	2.09	2.01
7	7	7	10	18	180	155.25	27.945	22.356		22.356	0.259	0.78	0.03	200	2.42	0.74	0.61	41	200	0.208	0.000	0.00	0.00	-1.20	-1.41	1.20	1.41	1.30
8	8	10	9	18	162	155.25	25.131	20.120	1.65.968	1.86.088	2.385	7.15	0.25	200	2.42	0.74	0.61	61	200	0.305	0.000	0.00	0.00	-2.09	-2.40	2.09	2.40	2.24
9	9	10	10	18	180	155.25	27.945	22.356		22.356	0.259	0.78	0.03	200	2.42	0.74	0.61	44	200	0.220	0.000	0.00	0.00	-1.20	-1.42	1.20	1.42	1.31
10	10	12	6	18	108	155.25	16.797	13.414	2.28.394	2.41.808	2.799	8.40	0.29	200	2.42	0.74	0.61	80	200	0.300	0.000	0.00	0.00	-2.40	-2.60	2.40	2.60	2.50
11	11	12	10	18	180	155.25	27.945	22.356		22.356	0.259	0.78	0.03	200	2.42	0.74	0.61	66	200	0.320	0.000	0.00	0.00	-1.20	-1.42	1.20	1.42	1.31
12	12	14	4	18	72	155.25	11.178	8.942	2.64.368	2.73.310	3.161	9.48	0.33	200	2.42	0.74	0.61	44	200	0.220	0.000	0.00	0.00	-1.20	-1.42	1.20	1.42	1.31
13	13	14	3	18	54	155.25	8.394	6.707		6.707	0.078	0.23	0.01	200	2.42	0.74	0.61	11	200	0.055	0.000	0.00	0.00	-1.20	-1.36	1.20	1.36	1.23
14	14	15	18	18	324	155.25	50.901	40.241	2.74.803	3.20.054	3.704	11.11	0.39	200	2.42	0.74	0.61	86	200	0.420	0.000	0.00	0.00	-2.80	-3.22	2.80	3.22	3.01
15	15	17	26	18	468	155.25	72.617	58.126		58.126	0.673	2.02	0.07	200	3.42	0.74	0.61	15	200	0.068	0.000	0.00	0.00	-1.20	-1.37	1.20	1.37	1.25

For ARMAAN BUILDTECH PVT. LTD.

Auth. Sign.



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT					
SUBJECT : SEWERAGE SYSTEM SHEET					
S.No.	Sewer Line		Size of Pipe	Length of Line in m	
	From	To	MM	200mm	250mm
1	1	3	200	42	
2	2	3	200	75	
3	3	5	200	41	
4	4	5	200	75	
5	5	6	200	29	
6	6	7	200	33	
7	7	8	200	41	
8	7	10	200	61	
9	9	10	200	44	
10	10	12	200	40	
11	11	12	200	44	
12	12	14	200	41	
13	13	14	200	11	
14	14	15	200	84	
15	16	17	200	13	
16	17	19	200	59	
17	18	19	200	104	

For ARMAAN BUILDTECH PVT. LTD.

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BICH-EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT

BICH-EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT

LINE NO.		Self Area (m ²)	Self Area (Acres)	Branch Area (Acres)	Total Area (Acres)	Total Area (Hectare)	Rain Fall mm/hr	Discharge @17.36 LPS/Hectare	Length in m	Pipe dia in mm	Slope 1 in	Velocity m/sec.	Cap of pipe in ips	Fall in line m	Ground Level		Invert Level		Depth		
FROM	TO														Start	End	Start	End	Start	End	Average
1	2	3567.0	0.88		0.88	0.36	6.25	6.19	83	400	500	0.64	80.75	0.17	0.00	0.00	-1.20	-1.37	1.20	1.37	1.28
2	5	1921.0	0.47		0.47	0.19	6.25	3.33	34	400	500	0.64	80.75	0.07	0.00	0.00	-1.37	-1.43	1.37	1.43	1.40
3	4	750.0	0.19	1.36	1.54	0.62	6.25	10.83	27	400	500	0.64	80.75	0.05	0.00	0.00	-1.20	-1.25	1.20	1.25	1.23
4	5	2784.0	0.69		0.69	0.28	6.25	4.83	70	400	500	0.64	80.75	0.14	0.00	0.00	-1.25	-1.39	1.25	1.39	1.32
5	8	1317.0	0.33	2.23	2.56	1.03	6.25	17.95	41	400	500	0.64	80.75	0.08	0.00	0.00	-1.43	-1.52	1.43	1.52	1.48
6	7	906.0	0.22		0.22	0.09	6.25	1.57	32	400	500	0.64	80.75	0.06	0.00	0.00	-1.20	-1.26	1.20	1.26	1.23
7	8	2536.0	0.63	2.78	3.41	1.38	6.25	23.92	70	400	500	0.64	80.75	0.14	0.00	0.00	-1.26	-1.40	1.26	1.40	1.33
8	12	2566.0	0.63		0.63	0.26	6.25	4.45	53	400	500	0.64	80.75	0.11	0.00	0.00	-1.52	-1.62	1.52	1.62	1.57
9	11	1673.0	0.41	4.04	4.45	1.80	6.25	31.28	45	400	500	0.64	80.75	0.09	0.00	0.00	-1.20	-1.29	1.20	1.29	1.25
10	11	6091.0	1.51		1.51	0.61	6.25	10.57	25	400	500	0.64	80.75	0.05	0.00	0.00	-1.20	-1.25	1.20	1.25	1.23
11	12	2848.0	0.70		0.70	0.28	6.25	4.94	70	400	500	0.64	80.75	0.14	0.00	0.00	-1.29	-1.43	1.29	1.43	1.36
12	15	1311.0	0.32	2.21	2.53	1.03	6.25	17.79	42	400	500	0.64	80.75	0.08	0.00	0.00	-1.62	-1.71	1.62	1.71	1.66
13	14	1052.0	0.26		0.26	0.11	6.25	1.83	33	400	500	0.64	80.75	0.07	0.00	0.00	-1.20	-1.27	1.20	1.27	1.23
14	15	4195.0	1.04	2.79	3.83	1.55	6.25	26.90	102	400	500	0.64	80.75	0.20	0.00	0.00	-1.27	-1.47	1.27	1.47	1.37
15	18	961.0	0.24		0.24	0.10	6.25	1.87	42	400	500	0.64	80.75	0.08	0.00	0.00	-1.71	-1.79	1.71	1.79	1.75
16	17	1045.0	0.26		0.26	0.10	6.25	1.81	33	400	500	0.64	80.75	0.07	0.00	0.00	-1.20	-1.27	1.20	1.27	1.23
17	18	4148.0	1.03		1.03	0.41	6.25	7.20	102	400	500	0.64	80.75	0.20	0.00	0.00	-1.27	-1.47	1.27	1.47	1.37

For ARMAAN BULBTECH PVT. LTD.

Auth. Sign.



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT

SUBJECT : DRAINAGE SYSTEM SHEET

S. No.	Line No.		Pipe dia.	Length of pipe in m	
	From	To	mm	400mm	500mm
1	1	2	400	83	
2	2	5	400	34	
3	3	4	400	27	
4	4	5	400	70	
5	5	8	400	41	
6	6	7	400	32	
7	7	8	400	70	
8	8	12	400	53	
9	9	11	400	45	
10	10	11	400	25	
11	11	12	400	70	
12	12	15	400	42	
13	13	14	400	33	
14	14	15	400	102	
15	15	18	400	42	
16	16	17	400	33	
17	17	18	400	102	
18	19	20	400	32	
19	20	22	400	12	

For ARMAAN BUILDTECH PVT. LTD.

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PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPMENT

SUBJECT: DOMESTIC WATER SUPPLY DESIGN SHEET

S. No.	Line Designation		No. of Plot	Water Requirements (in KLD)	Self Water requirement (in KLD)	Branch Water requirement (in KLD)	Total Water Requirements (in KLD)	Discharge per Hour considering 8 Hours Pumping	Size of Pipe Provided	Velocity in ft/sec.	Velocity in m/sec.	Head Loss per 100m	Loss of head as per pipe length	Length of pipe (in meters)	Ground Level		Hydraulic Level		Terminal Head
	FROM	TO					Total	KL/Hr	mm						Start	End	Start	End	
1	WTP	1	0	0.00	0	485	485	60.634	150	3.13	0.96	11	0.089	8	100.00	100.00	135.000	134.911	34.911
2	1	2	0	0.00	0	485	485	60.634	150	3.13	0.96	11	0.388	35	100.00	100.00	135.000	134.612	34.612
3	2	3	0	0.00	0	485	485	60.634	150	3.13	0.96	11	0.300	27	100.00	100.00	135.000	134.703	34.703
4	3	4	6	11.18	11	0	11	1.397	100	0.16	0.05	0	0.002	33	100.00	100.00	135.000	134.998	34.998
5	3	6	26	48.44	48	425	474	59.237	100	6.89	2.10	77	7.657	100	100.00	100.00	135.000	134.998	34.998
6	5	6	9=COMMERCIAL	22.63	23	0	23	2.829	100	0.33	0.10	0	0.019	69	100.00	100.00	135.000	134.981	34.981
7	6	7	6	11.18	11	392	403	50.353	100	5.86	1.79	57	2.438	43	100.00	100.00	135.000	132.562	32.562
8	7	8	26	48.44	48	13	61	7.685	100	0.89	0.27	3	0.179	102	100.00	100.00	135.000	134.821	34.821
9	8	9	7	13.04	13	0	13	1.630	100	0.19	0.06	0	0.003	33	100.00	100.00	135.000	134.997	34.997
10	7	10	0	0.00	0	19	19	2.329	100	0.27	0.08	0	0.010	51	100.00	100.00	135.000	134.990	34.990
11	10	11	5	9.32	9	0	9	1.164	100	0.14	0.04	0	0.002	32	100.00	100.00	135.000	134.998	34.998
12	10	12	0	0.00	0	9	9	1.164	100	0.14	0.04	0	0.001	12	100.00	100.00	135.000	134.999	34.999
13	12	13	4	9.32	9	0	9	1.164	100	0.14	0.04	0	0.002	32	100.00	100.00	135.000	134.998	34.998
14	13	14	0	0.00	0	0	0	0.000	100	0.00	0.00	0	0.000	33	100.00	100.00	135.000	135.000	35.000
15	7	14	4	9.32	9	302	312	38.942	100	4.53	1.38	35	1.480	42	100.00	100.00	135.000	133.520	33.520
16	14	15	26	48.44	48	13	61	7.685	100	0.89	0.27	2	0.179	102	100.00	100.00	135.000	134.821	34.821
17	15	16	7	13.04	13	0	13	1.630	100	0.19	0.06	0	0.003	33	100.00	100.00	135.000	134.997	34.997
18	14	17	6	11.18	11	230	241	30.063	100	3.50	1.07	22	0.919	42	100.00	100.00	135.000	134.081	34.081
19	17	18	16	29.81	30	43	73	9.134	100	1.06	0.32	2	0.169	70	100.00	100.00	135.000	134.831	34.831

For ARMAAN BUILDTECH PVT. LTD.

Armaan Singh
Armaan Singh



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DOJAY PLOTTED DEVELOPEMENT					
SUBJECT : DOMESTIC WATER SUPPLY SHEET					
S. No.	Line Designation		Size of Pipe	Length of pipe in m	
			mm	100mm	150mm
1	WTP	1	150		8
2	1	2	150		35
3	2	3	150		27
4	3	4	100	33	
5	3	6	100	100	
6	5	6	100	69	
7	6	7	100	43	
8	7	8	100	102	
9	8	9	100	33	
10	7	10	100	51	
11	10	11	100	32	
12	10	12	100	12	
13	12	13	100	32	
14	13	14	100	33	
15	7	14	100	42	
16	14	15	100	102	
17	15	16	100	33	
18	14	17	100	42	
19	17	18	100	70	
20	18	19	100	25	
21	18	20	100	45	
22	17	21	100	53	
23	21	22	100	70	
24	22	23	100	32	
25	21	24	100	41	
26	24	25	100	70	
27	25	26	100	27	
28	24	27	100	34	
29	27	28	100	83	
TOTAL				1309	70
say				1310	70

For ARMAAN BUILDTECH PVT. LTD.

[Signature] Auth. Sign.



CT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT
 CT: FLUSHING & GARDEN WATER SUPPLY DESIGN SHEET

Node No.		No. of Plot	Flushing Water Requirement in KLD	Branch Water	Total KLD	Discharge per Hour considering 8 Hours Pumping	Size of Pipe Provided	Velocity		Head Loss per 1000 m	Loss of head as per pipe length	Length of pipe (in meters)	Ground level		Hydraulic Level		Terminal Head
From	To							in ft/sec.	in m/s				Start in m	End in m	Start in m	End in m	
						k/hr	mm										
STP	1	0	0	242	242	30.308	150	1.57	0.48	3	0.264	36	94.00	101.30	136.00	135.74	34.44
1	2	19	18	138	156	19.502	100	2.27	0.69	10	0.098	85	101.30	101.30	136.30	136.20	34.90
2	3	3	3	0	3	0.349	100	0.04	0.01	0	0.000	10	101.30	101.30	136.30	136.30	35.00
2	4	6	6	130	136	16.940	100	1.97	0.60	7	0.324	48	101.30	101.30	136.30	135.98	34.68
4	5	10	9	0	9	1.164	100	0.14	0.04	0	0.001	44	101.30	101.30	136.30	136.30	35.00
4	6	6	6	115	121	15.077	100	1.75	0.53	6	0.256	41	101.30	101.30	136.30	136.04	34.74
6	7	10	9	0	9	1.164	100	0.14	0.04	0	0.002	44	101.30	101.30	136.30	136.30	35.00
6	8	8	7	98	106	13.214	100	1.54	0.47	4	0.184	53	101.30	101.30	136.30	136.12	34.82
8	9	10	9	0	9	1.164	100	0.14	0.04	0	0.001	41	101.30	101.30	136.30	136.30	35.00
8	10	4	4	85	89	11.118	100	1.29	0.39	3	0.133	31	101.30	101.30	136.30	136.17	34.87
10	11	7+community	41	45	85	10.653	100	1.24	0.38	3	0.209	42	101.30	101.30	136.30	136.09	34.79
11	12	18	17	0	17	2.096	100	0.24	0.07	0	0.005	72	101.30	101.30	136.30	136.30	35.00
11	13	6	6	22	28	3.493	100	0.41	0.12	0	0.023	42	101.30	101.30	136.30	136.28	34.98
13	14	18	17	0	17	2.096	100	0.24	0.07	0	0.004	72	101.30	101.30	136.30	136.30	35.00
13	15	6	6	0	6	0.699	100	0.08	0.02	0	0.001	34	101.30	101.30	136.30	136.30	35.00
1	16	5	5	82	86	10.806	100	1.26	0.38	3	0.111	48	101.30	101.30	136.30	136.19	34.89

For ARMAAN BUILDTECH PVT. LTD.


 Auth. Sign.



PROJECT: PROJECT: M/S SPITI PROJECTS LLP. PLOTTING EXTERNAL SERVICES ESTIMATE

SUBJECT : FLUSHING & GARDEN WATER SUPPLY SHEET

S. No.	Line Designation		Size of Pipe mm Dia	Length of pipe	
				100MM	150MM
3	STP	1	150		36
4	1	2	100	85	
5	2	3	100	10	
6	2	4	100	48	
7	4	5	100	44	
8	4	6	100	41	
9	6	7	100	44	
10	6	8	100	53	
11	8	9	100	41	
12	8	10	100	31	
13	10	11	100	42	
14	11	12	100	72	
15	11	13	100	42	
16	13	14	100	72	
17	13	15	100	34	
18	1	16	100	48	
19	16	17	100	37	

For ARMAAN BUILDTECH PVT. LTD.

[Signature] Auth. Sign.



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT**SUBJECT : ROAD WORKS**

S. No.	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
1	Provision for leveling & earth filling as per site conditions	Acre.	13.59375	1,75,000	23,78,906
2	Construction of Roads 200mm granular surface, 250mm water mix macadam, 50mm DBM, 30mm BC.	Sqm	9,160	1,500	1,37,40,000
3	Provision for Kerbs & channels of CC 1:2, 5:5, complets in all respect	Metre	3,180	600.00	19,08,000
4	Provision for Pavement in commercial area and pavements. (50% OF AREA)	Sqm	553.80	1,500.00	8,30,700
5	Provision for Traffic arrangement	LS			2,00,000
6	Provision for carriage of materials, Guid map Plot indecater etc.	LS			1,50,000
	Sub Total				1,92,07,606
	Add 3% contingencies & PH charges				5,76,228
	Sub Total				1,97,83,834
	Add 49% Departmental Charges , Price escalation, unforseen & Admin. Charges				96,94,079
	Total				2,94,77,913
	Say Rs in Lakhs (C/O to Final abstract of cost)				294.78

For ARMAAN BUILDTECH PVT. LTD.

D. G. G.
Auth. Sign.



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT

SUBJECT : ROAD AREA

S. NO	ROAD NO	ROAD LENGTH IN M	ROAD WIDTH (CARPETED) IN M	AREA N SQM	
1	1-5	137	5.50	753.5	
2	2-21	108	5.50	594.0	
3	3-20	109	5.50	599.5	
4	4-15	109	5.50	599.5	
5	5-14	109	5.50	599.5	
6	6-10	135	5.50	742.5	
7	7-13	77	5.50	423.5	
8	8-12	77	5.50	423.5	
9	9-11	92	5.50	506.0	
3	11-20	219	6.00	1314.0	
4	20-22	193	7.00	1351.0	
5	20-18	85	5.50	467.5	
6	19-17	19	5.50	104.5	
7	17-16	44	5.50	242.0	
TOTAL		1513		8720.5	
ADD 5% FOR CURVES		75.65		436.0	
TOTAL		1588.65		9156.5	
SAY		1590		9160	
LENGTH OF KERB STONE			1590X2	3180	RM
say		3180		9160	

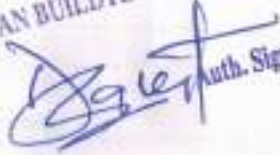
For ARMAAN BUILDTECH PVT. LTD.

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PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT**SUBJECT: EXTERNAL LIGHTING**

S.No.	Discription	UM	Qty.	Rate	Amount
1	Providing and installing street light on roads as for standard specification of DHVPN with LED	Acre	13.59375	250000	3398437.5
2	Contingency and Frieght Charges @ 3%				101953.125
	TOTAL				3500390.625
3	ADD 49% Deptt charges, price escalation unforeseen & dmin charges				1715191.406
4	TOTAL				5215582.031
	Say Rs in Lakhs (C/O to Final abstract of cost)				52.16

For ARMAAN BUILDTECH PVT. LTD.

 Auth. Sign.



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT**SUBJECT: PLANTATION & ROAD SIDE TRESS**

S.No.	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
1	Development of organised lawn green area.	Acre	1.02050	1,50,000.00	1,53,075.00
a	Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure.				
b	Rough dressing of turfed area.				
c	Grassing with "DOOB GRASS" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for mowing in row 7.5 cm part in either direction.				
2	Providing and planting trees along boundary @ 12 m interval = $(1173/12) \times 2 = 195.5$ say 200	Nos.	200	1,800.00	3,60,000.00
Cost Detail					
	Excavation	60.00			
	Manure	90.00			
	Tree Plant	150.00			
	Tree Guard	1500.00			
	Total	1800.00			
	Sub Total				5,13,075.00
	Add 3% contingencies & PH charges				15,392.25
	Sub Total				5,28,467.25
	Add 49% Departmental charges				2,58,948.95
	Total				7,87,416.20
	Say Rs in Lakhs (C/O to Final abstract of cost)				7.87

For ARMAAN BUILDTECH PVT. LTD.

[Signature] Auth. Sign.



PROJECT: EXTERNAL SERVICES ESTIMATE FOR DDJAY PLOTTED DEVELOPEMENT**SUBJECT: SERVICES & RESURFACING OF ROADS**

S.No.	Description	Unit	Qty	Rate (in Rs.)	Amount (in Rs.)
1	Provision of MTC charges for W/S, SWD & Sewarage, Roads, Street Lighting, Horticulture etc.				
a.	Complete in all aspect, including operational and establishment charges as per HSVP norms for 10 years completion.	Acre	13.39375	8,00,000	1,07,15,000.00
2	Provision of resurfacing of roads MTC one layer of 100 mm thick WBM compacted to 75 mm thick with 25mm thick premix carpet with seal coat.				
a	Resurfacing of road after 5 years of MTC.	Sqm	9,160.00	660	60,45,600.00
b	Resurfacing of road after 10 years of MTC.	Sqm	9,160.00	825	75,57,000.00
	Sub Total				2,43,17,600.00
	Add 3% contingencies & PH charges				7,29,528.00
	Sub Total				2,50,47,128.00
	Add 49% Departmental charges				1,22,73,092.72
	Total				3,73,20,220.72
	Say Rs in Lakhs (C/O to Final abstract of cost)				373.20

For ARMAAN BUILDTECH PVT. LTD.

Auth. Sign

