

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

**FOR**

**LAYOUT PLAN OF PROPOSED  
RESIDENTIAL PLOTTED COLONY UNDER  
DEEN DAYAL JAN AWAS YOJNA SCHEME-  
2016 OVER AN AREA MEASURING  
55.72396 ACRES(AFTER MIGRATION  
FROM LICENCE NO.6 OF 2010  
DATED14.01.2010)IN THE REVENUE  
ESTATE OF VILLAGE KABRI & TARAF  
INSAAR IN SECTOR-37,PANIPAT (HR.)**

**OWNER**

**UTTIRNA INFRAPROJECTS PRIVATE  
LIMITED**



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**PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37,PANIPAT (HR.)**

**Report**

Panipat town of Haryana State is situated in approx 90 Kms from Delhi. Being in the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, Haryana Urban Development Authority has already developed many residential sectors. Further to the increasing demand HUDA has planned to develop new sectors in panipat. This report and estimate is for approximately 55.72396 Acres, Sector - 37, Panipat, proposed to be developed by M/s UTTIRNA INFRAPROJECTS PRIVATE LIMITED

**1. WATER SUPPLY**

**DOMESTIC WATER SUPPLY**

At present the source of water supply in this area is by tubewells till the HSVP supply is available water supply connection as the underground water is potable and fit for human use. The water supply system has been designed as per the Hazen William formula. The under ground tank will be filled from the tube well riser and after treatment, the water will be pumped directly to each plot. Entire domestic to the proposed development is to be supplied by the tube well and therefore, it is proposed to install 5 nos. of tube wells. The rate of water supply per head/day has been taken as 100 liters per head per day @ (65 % of total demand 155 liters per head per day).

**FLUSHING WATER SUPPLY**

Requirement of flushing water will met out from STP recycled water supply. The water supply system has been designed as per the Hazen William formula. The rate of water supply per head/day has been taken as 55 liters per head per day @ (35 % of total demand 155 liters per head per day).

**DESIGN**

The scheme has been designed for population considering 18 person for each plot. The rate of water supply per head/day has been taken as 155 liters per head per day.

**2. SEWERAGE SCHEME**

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 & flushing 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. Sewer lines up to 400mm internal dia have been designed to run half full and above 400mm internal dia have been designed to run three fourth full at peak flow. Necessary provision for laying S.W./R.C.C./PVC pipe sewer lines, construction of required number of manholes etc., has been made in the estimate.

Sewer line from proposed area will be connected to the proposed sewage treatment plant( STP). Surplus treated effluent shall be used in green belts, parking etc. The sewerage system has been marked on the respective plans.

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

**3. STORM WATER DRAINAGE**

We are proposing to lay underground R.C.C. pipe drains with required number of catch basins, manholes and rainwater recharge pits with over flow to the Proposed HSVP storm drainage system at a later stage. The intensity of rain fall has been taken as 1/4" per hour. R.C.C storm water lines have been designed as per Manning's formula.



**SPECIFICATIONS**

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

**ROADS**

Estimate of Road work is prepared as per revised specifications adopted by Haryana Shahari Vikas Pradhikaran.

**STREET LIGHTING**

Lump Sum Provision for streets lightings has been made in this estimate .

**HORTICULTURE**

Provisions for plantation, landscaping, signage, etc., have been included

**DECLARATION**

We will make our own arrangement for water supply, sewerage, drainage till the external infrastructure be available by Haryana Shehari Vikas Pradhikaran, at later stage.

**RATES**

The estimate has been prepared based on the present market rates

**COST**

The total cost of the scheme, including cost of all services works out to **Rs. 58,56,40,626.49**  
 Including 3% Contingencies and 49% Departmental Charges

Area of DDIAY development as per License **55.724 Acre**

Net Cost Per Acre **Rs. 105.10 Lacs**  
~~Rs. 97,03,058.23~~

For: **M/S UTTIRNA INFRAPROJECTS PRIVATE LIMITED**

Authorized Signatory



PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010)IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37,PANIPAT (HR.)

Sl. No.	Description	Area in Acres	Nos. of Plot	Population /Plot	Total Population	Water Demand /Person in LPCD	Total Water Demand @ 155 LPCD (in LPD)	Domestic Water Demand @100LPCD (in LPD)	Flushing Water Demand @ 55LPCD (in LPD)	Sewage Flow 80% of total Flow in LPD
1	Plots		940	18	16920	155.33	2622660	1707498	919398	2107464
2	Commercial @ 25 KL/Acre	3.228					35680			28684
3	Community facilities @ 25 KL/Acre	5.572					55725			44580
4	Irrigation @ 25 KL/Acre	4.339					139300			111440
5	Road for sweeping	11.22				25000	1420000			
	<b>Total</b>				16920		2922100	1768683	1161341	2294100
	Total Water Demand						2922100 LPD	1768683	1161341	2294100 KLD
	Total Domestic Water Demand						1768683 LPD	1768683	1415000	1132363
	Total Flushing Water Demand						1161341 LPD	1161341	1161341	929737
	Total Irrigation Water Demand						139300 LPD	139300	111440	89144
	Flow To Sewer						1161341 LPD	1161341	929737	731604
	STP Capacity proposed									929737
	Fire Water Tank Cap.									135
	Fire demand = $2/3 * (100 * P)$ (P in thousand m <sup>3</sup> /24) = $100 * (16.92) * 2/3 = 11280$ KL only for Underground static (R) (Reservoir)									135
	Raw water Tank capacity									850
	Domestic water tank capacity @ 25% = 58% say 60%									1061
	Total Underground Water Tank Capacity Proposed									1196

say 1200 KL

UGT for Flushing water  
 Total water Req. for Flushing water = 1033 KLD  
 Hort. & Roads = 161 KLD  
 1194 KLD  
 Storage Tanking cap. = 71640 KL  
 say 750 KLD



1 Water Transfer Pumpset (Domestic)		Water Pump Capacity						
a)	Total Domestic Demand per/day							
	Pumping working hours/day							1,760 6
	Required Pumping Capacity Lpm							4,890 Lpm
	Proposed pump 5 nos with (4W + 1S)							Lpm of each pump
b)	Water Pump Head							
i)	Suction lift							0
ii)	Pump room from ground level							7
iii)	Residual Head provided at farthest ferrule							27
iv)	Friction Head Loss							3
v)	Total pump head required							44
vi)	Total pump head required including Factor of safety @ 10%							45
vii)	Proposed Pump head							50
c)	Pump HP							
i)	Power Required each pump (Lpm*head (m)/75*50*.70(eff))							19
2 Flushing / Irr. Water Transfer Pump								
a)	Flush, water Pump Capacity							
i)	Total Flu. / Irr. Demand (l) per/day							1194 4,162
ii)	Pumping working hours/day							6
iii)	Required Pumping Capacity							Lpm
iv)	Proposed pump 4 nos with (3W + 1S)							Lpm of each pump
b)	Flushing water Pump Head							Lpm of each pump
i)	Suction lift							0
ii)	Pump room from ground level							7
iii)	Residual Head provided at farthest ferrule							27
iv)	Friction Head Loss							3
v)	Total pump head required							44
vi)	Total pump head required including Factor of safety @ 10%							54
vii)	Proposed Pump head							55
c)	Pump HP							
i)	Power Required each pump (Lpm*head (m)/75*50*.70(eff))							19.2



Tube well		Note: Tube well considered since the HUDA water supply is not available as of now.											
3	i)	Approx. discharge of tube well									25	KL/hour	
	ii)	Working hour of the tube well									16	KL/day	
	iii)	Total domestic water demand									1,768	KL/day	
	iv)	Number of tube well required [1963/(20X12)]								4.42	Nos		
	v)	Add 10% as stand by								0.44	Nos		
	vi)	Total number of tube well required								4.86	Nos		
	vii)	Number of tube well proposed							Say	5	Nos	Say	
	4 Pumping Machiner for tube well												
4	i)	Gross working head										mtr.	
	ii)	Average fall in S.L.										mtr.	
	iii)	Depression head										mtr.	
	iv)	Friction loss in main										mtr.	
	Total Head												mtr.
	Pump HP												
	Power Required each pump (Lpm*head (m)/75*60*20(eff))											15.43	
	CAPACITY OF DG SET											14	HP each
6													
Equipment Description													
Domestic Water Transfer Pumps												Total Power Consumption	
Flu. / Irr. Water Transfer Pumps												70.0	
Pumping Machiner for tube well												20.0	
Street lighting												44.0	
Total HP Required												13.50	
DG KVA Required (HP*246/W*0.8)												30.0	
DG Capacity- Say												240.0	
DG Capacity- Say												224	
DG Capacity- Say												230	
7													
MSVP Water Supply Line													
Total Daily Water Demand												Total Head Loss	
LPD												Mtr./Sec.	
Huda to UGT												Mtr.	
Huda to UGT												Mtr./Sec.	
Huda to UGT												Mtr.	

required 2.50 nos say 3 nos  
more of 10. MH is installed  
as and when required

25000 X 150  
60 X 60 X 15 X 60

2.67.50 X 0.746 X 150



1768683

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37,PANIPAT (HR.)

FINAL ABSTRACT OF COST

Description	Total of sub work	3% Contingencies	TOTAL	49% departmental	(Rs in Lacs) Grand Total
Sub Work-1	593.96	17.82	611.78	299.77	911.55
Water Supply	<del>4,76,10,710</del>	<del>44,26,321</del>	<del>4,69,36,031</del>	<del>2,32,76,656</del>	<del>7,29,14,687</del>
Sub Work-2	484.29	14.53	498.82	244.42	743.24
Sewerage	<del>6,52,22,300</del>	<del>36,89,669</del>	<del>6,79,05,969</del>	<del>2,83,75,389</del>	<del>4,62,54,384</del>
Sub Work-3	310.70	9.32	320.02	156.81	476.83
Drainage	<del>2,67,75,732</del>	<del>4,63,272</del>	<del>2,76,79,004</del>	<del>1,38,73,712</del>	<del>4,18,92,712</del>
Sub Work-4	1065.37	31.96	1097.33	537.67	1635.02
Road Works	<del>4,66,69,859</del>	<del>26,48,629</del>	<del>9,69,40,545</del>	<del>4,44,14,014</del>	<del>13,59,54,859</del>
Sub Work-5	139.31	4.18	143.49	70.31	213.80
Street Lighting	<del>1,39,30,950</del>	<del>4,77,638</del>	<del>4,43,48,520</del>	<del>2,03,30,674</del>	<del>2,13,79,890</del>
Sub Work-6	20.11	0.60	20.71	10.15	30.86
Plantation & Road side Trees/Horticulture	<del>20,04,750</del>	<del>60,145</del>	<del>20,64,895</del>	<del>10,11,787</del>	<del>30,76,680</del>
Sub Work-7					
MTC Charge and Resurfacing of Road	1202.24	36.07	1238.31	606.77	1845.08
	<del>11,76,05,439</del>	<del>35,35,980</del>	<del>12,14,02,432</del>	<del>6,04,07,152</del>	<del>18,08,09,523</del>
TOTALS	Rs. 36,23,11,740.73	Rs. 1,06,69,352.22	Rs. 36,28,44,092.95	Rs. 17,76,11,733.54	Rs. 54,06,92,828.49
Amount	Rs. 54,06,92,828.49				Rs. 5856.38 Lacs

Area of DDIAY development as per License

55.72396 Acre

Net Cost Per Acre

Rs. 99,09,058.23

For: M/S UTTIRNA INFRAPROJECTS PRIVATE LIMITED

Authorized Signatory

EXECUTIVE ENGINEER  
H.S.V.P. DIVISION, PANIPAT

Superintending Engineer  
HSVP Circle, BARNAL

Checked subject to Comments  
In forwarding letter No. 12162  
Dt. 31.05.2023 and notes  
attached with the estimate

Director General  
Town & Country Planning  
Haryana, Chandigarh

Signature  
In-charge (HC)  
In-charge-II  
In-charge







हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI  
VIKAS PRADHIKARAN

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

C.E.II-No. 12/062  
Dated: 31-05-2023  
Annexure-A

**SUB:-** Approval of service plan estimate for providing water supply, sewerage, storm water drainage, Roads, Street Lighting and Horticulture works etc. in respect of 55.72396 acres DDJAY plotted colony at Village Kabri & Taraf Insaar, Sector-37, Panipat being developed by M/s Green field colonizer Pvt. Ltd. and others in collaboration with Uttirna Infra Projects Pvt. Ltd.

**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.

P.T.O.




हरियाणा शहरी विकास प्राधिकरण

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9. A minimum 100 i/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.

  
Superintending Engineer (HQ),  
For Chief Engineer-II, HSVP,  
Panchkula.

*SDE (HQ)*

SUB WORK No. 1

WATER SUPPLY

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)

S No.	Heads	Description	Amount
1	Sub Head 1	<del>sub-well works</del> <i>Head works</i>	<i>270.45 Lacs</i> Rs. <del>4,01,29,160.00</del>
2	Sub Head 2	HSVP Water Connection <i>(Rising main)</i>	<i>5.98 Lacs</i> Rs. <del>9,97,730.00</del>
3	Sub Head 3	Pumping and machinery	<i>96.50 Lacs</i> Rs. <del>1,84,52,500.00</del>
4	Sub Head 4	Domestic Water supply <i>(Distribution)</i>	<i>112.85 Lacs</i> Rs. <del>4,07,29,900.00</del>
5	Sub Head 5	Flushing/Irrigation System	<i>108.18 Lacs</i> Rs. <del>76,22,400.00</del>
TOTAL			<i>Rs. 593.96 Lacs</i> Rs. <del>4,75,10,710.00</del>

C.O. to final abstract of work



SUB WORK No. 1 WATER SUPPLY  
 Sub Head 1 ~~Tubewell head works~~ *Head works*

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.8 OF 2010 DATED 14.01.2010)IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37,PANIPAT (HR.)

S No.	Description	Amount
<b>A</b>	<b>Tube well works</b>	
1	Boring and installing 510 mm id tube wells with reverse rotary rig complete with pipe and strainer to depth of about 100 m. Complete with cost of pumping set	
a)	5 Nos. @ Rs. 15,00,000	Rs. 75,00,000.00
2	Provision for rising mains, connection borewells with water main and Bye-pass arrangements	
a)	<del>80</del> <i>80</i> <sup>of pipe</sup> <del>100</del> <i>100</i> mm 327 M @ Rs. <del>4000</del> <i>1460/-</i>	Rs. <del>1327,000.00</del> <i>4.77 lacs</i>
b)	<del>140</del> <i>140</i> mm 246 M @ Rs. <del>1,460</del> <i>2040/-</i>	Rs. <del>2,131,600.00</del> <i>5.02 lacs</i>
c)	<del>140</del> <i>140</i> mm 87 M @ Rs. <del>4,000</del> <i>2700/-</i>	Rs. <del>4,74,600.00</del> <i>2.62 lacs</i>
d)	<del>200</del> <i>200</i> mm 10.8 M @ Rs. <del>2,300</del> <i>2850/-</i>	Rs. <del>48,400.00</del> <i>0.29 lacs</i>
3	Providing Tubewell submersible Pumps Capacity 25000 lph @100M head <i>(17.50HP)</i>	<i>17.50</i> lacs
a)	5 Nos. @ Rs. <del>350,000</del> each	Rs. <del>10,00,000.00</del>
4	Provision for construction of Tube well chambers of Size 1.5x1.5x1.5 m for tubewell	
a)	5 Nos. @ Rs. 1,00,000 each	Rs. 5,00,000.00
5	Provision for carriage for materials and other unforeseen items (L/S)	Rs. 2,50,000.00
<b>Total of Sub Head 1</b>		<b>Rs. 1,01,29,150.00</b>

Material statement For TUBE WELL Line

S.No.	Node	Dia(mm)	Length (M)
1	TW1-TW2	<del>80</del> <i>100</i>	162
2	TW2-TW3	<del>100</del> <i>100</i>	133
3	TW3-T1	<del>100</del> <i>100</i>	97
4	TW4-TW5	<del>80</del> <i>100</i>	165
4	TW5-T1	<del>140</del> <i>140</i>	113
5	T1-TANK	<del>200</del> <i>250</i>	<del>10</del> <i>10</i>

- 6) Const. of boundary wall around the T.W. site
    - (i) Water works (L.S.) *Rs 2.00 lacs*
    - (ii) T.W. 4 nos. (L.S.) *Rs 6.00 lacs*
  - 7) Prov. for foot path, hedges and lawns at T.W. (L.S.) *Rs 5.00 lacs*
  - 8) Const. of broasting chambers of suitable size along with under ground Tank of capacity 1200 KL incl. fire reserve 135 KL. *Rs 7.50 lacs*
    - (i) Details of broasting chamber (L.S.)
    - (ii) UGT 1200 KL capacity incl. 135 KL capacity for fire in two compartment and for flushing 750 KL capacity near STP capacity = 1200 + 750 = 1950 KL @ Rs 5000/- = *Rs 9.75 lacs*
  - 9) Prov. for const. of staff bits for site 5 No 350 sft @ *Rs 6.00 lacs/each* *Rs 30.00 lacs*
- Rs 270.45 lacs*



Rising Main

SUB WORK No. 1

WATER SUPPLY

Sub Head 2 HSVP Water Supply Distribution System

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.8 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)

S No.	Description	Amount
A	HSVP Rising Main	
1	Providing, laying, jointing and testing CI pipe lines including cost of excavation etc. complete in all respects.	
a)	150 mm dia pipe 150 Mtr. @ Rs. 2,040	Rs. 3,06,000.00
2	Providing and fixing sluice valve and air release valve including cost of surface boxes and masonry chambers etc. complete in all respects	
a)	150 mm dia 1 Nos. @ Rs. 16,750 - 15000/-	Rs. 16,750.00
3	Providing and fixing indicating plates for sluice valve and air valves	
a)	1 Nos. @ Rs. 9,000 each	Rs. 9,000.00
4	Provision for carriage for materials and other unforeseen items (L/S)	Rs. 50,000.00
5	Provision for cutting of roads and making good to its original conditions (L/S)	Rs. 50,000.00
6	Provision for making connection with HSVP water main (L/S)	
	1 Nos. @ Rs. 2,00,000 (L.S)	Rs. 2,00,000.00
Total of Sub Head 2 Carried over to summary of Sub work - 1		Rs. 5,77,750.00

Material statement For HUDA Line

S.No.	Node	Dia(mm)	Length (M)
1	HUDA-Tank 1	150	150



SUB WORK No. 1

WATER SUPPLY

Sub Head 3

Pumping and machinery

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72394 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)

S No.	Description	Amount
1	Providing & installing pumping set of following capacity for Domestic Supply (471)	20.00 lacs
a)	Capacity 1250 LPM each pumps @ 45 mtr. (22.50) 5 Nos. @ Rs. 4,00,000.00 each.	Rs. 20,00,000.00
2	Providing & installing pumping set of following capacity for Flushing/Irrigation Pumps	16.10 lacs
a)	Capacity 1100 LPM each pumps @ 45 mtr. (20.10) 4 Nos. @ Rs. 4,00,000.00 each.	Rs. 16,10,000.00
3	Provisions for chlorination plant complete (L.S) 1 Nos @ Rs. 4,00,000.00 each.	Rs. 3,00,000.00
4	Provision for making foundations and erection of pumping machinery (L.S)	Rs. 5,00,000.00
5	Provision for pipes, valves and specials inside the boosting chamber	2.50 lacs
6	Provision for Gen Set. 15000 200-KVA @ Rs. 25,000.00 per KVA	Rs. 50,000.00
7	Provision for Plumbing, front floor and underground water Tank complete in all respect. electric service connection incl. electric fittings for T.W. chamber comp. incl. 1 cat 110 Trans-former	4.00 lacs
8	Provision for carriage of material and other unclassified items etc. L/S	Rs. 1,00,000.00
Sub Head 3 TOTAL COST TO SUB WORK - 1		Rs. 1,24,52,500.00
		96.50 lacs



SUB WORK No. 1  
 Sub Head 4  
 PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)

WATER SUPPLY  
 Domestic Water supply  
*Water supply system*

S No.	Description	Amount
1	Providing, laying, joining and testing DI/HDPE/PVC pipe lines including fittings, valves, cost of excavation etc. complete in all respects.	
a)	100 mm Pipe 4190 Mtr @ Rs. 1,460 per Mtr	Rs. 61,17,400
b)	200 mm Pipe 1481 Mtr @ Rs. 2,500 per Mtr	Rs. 37,02,500
c)	250 mm Pipe 10 Mtr @ Rs. 3,000 per Mtr	Rs. 30,000
2	Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.	
a)	100 mm 22 Each @ Rs. 10,000	Rs. 2,20,000
b)	200 mm 4 Each @ Rs. 25,000	Rs. 1,00,000
3	Providing and fixing External Fire Hydrants including chamber	
	5 Nos @ Rs. 15,000	Rs. 75,000
4	Providing and fixing air release valve and scour valve	
	4 Nos @ Rs. 6,000	Rs. 24,000
5	Indication plate for valves, hydrant AV etc.	Rs. 1,00,000
6	Provision for carriage of materials and other unforeseen items	Rs. 3,00,000
7	Prov. for indicating plates for sluice valve air valve	Rs. 0.60 LAK
TOTAL CO to SUB WORK - 1		Rs. 1,07,28,900.00

*37.99 LAKS*

*2.64 LAKS*

*1.00 LAK*

*0.40 LAK*

*30 nos @ Rs 2000 each*

*8. Prov. for cutting of road & making good to its in original condition of L.S.*

*2.00 LAKS*

*Rs 112.85 LAKS*



## DOMESTIC MATERIAL SHEET

Sl. No.	Node		Length	Proposed pipe dia in MM.			
	<del>116T</del>				100	200	<del>250</del> 280
1	W1	W2	10	<del>250</del>	0	0	10
2	W2	W3	303	<del>200</del>	0	303	0
3	W2	W32	86	<del>200</del>	0	86	0
4	W3	W4	38	<del>200</del>	0	38	0
5	W4	W31	389	100	389	0	0
6	W4	W6	45	<del>200</del>	0	45	0
7	W6	W29	388	100	388	0	0
8	W6	W8	45	<del>200</del>	0	45	0
9	W8	W27	388	100	388	0	0
10	W8	W10	44	<del>200</del>	0	44	0
11	W10	W11	259	100	259	0	0
12	W3	W11	14	100	14	0	0
13	W10	W25	388	100	388	0	0
14	W10	W12	55	<del>200</del>	0	55	0
15	W12	W23	389	100	389	0	0
16	W12	W13	38	<del>200</del>	0	38	0
17	W13	W21	388	100	388	0	0
18	W13	W15	46	<del>200</del>	0	46	0
19	W15	W19	388	100	388	0	0
20	W15	W17	427	<del>200</del>	0	427	0
21	W17	W19	44	<del>200</del>	0	44	0
22	W19	W21	45	<del>200</del>	0	45	0
23	W21	W23	38	<del>200</del>	0	38	0
24	W23	W25	55	<del>200</del>	0	55	0
25	W25	W27	44	<del>200</del>	0	44	0
26	W27	W29	45	<del>200</del>	0	45	0
27	W29	W31	45	<del>200</del>	0	45	0
28	W31	W32	38	<del>200</del>	0	38	0
29	W32	W33	27	100	27	0	0
30	W31	W35	37	100	37	0	0
31	W35	W36	55	100	55	0	0
32	W35	W37	311	100	311	0	0
33	W11	W39	222	100	222	0	0
34	W33	W39	209	100	209	0	0
35	W39	W40	36	100	36	0	0
36	W40	W42	75	100	75	0	0
37	W40	W41	227	100	227	0	0
TOTAL LENGTH In mtr.			5681		4190	1481	10







LAYOUT PLAN OF PROPOSED RESIDENTIAL PLOTTED COLONY UNDER BEEN DAYAL JAWANAS YOUNA SCHEME-2016 OVER AN AREA MEASURING 55.7385 ACRES(AFTER MIGRATION FROM LICENCE NO.8 OF 2010 DATED 14.01.2015)IN THE REVENUE ESTATE OF VILL AGE KARRI & TARAF MSHAR IN SECTION-37, PANIPAT (HR.)

Sl. No.	Node	plots eff	Plots Branch	Plots Total	Total Population- Plots Population @Average 10 Person/Plot	Domestic building demand @35% of total demand in water	Total demand based on G.H.s. in KLH	Peak Demand in LPM	Length in m	Proposed pipe dia in ID. in mm	Velocity in m/sec	Frictional head loss in Mtr./ pipe in Mtr.	Frictional head loss in total in Mtr.	Cumulative Frictional Loss	Minimum Residual head in mtr at end.	Remarks: pump head is 50 mtr. Pump room below = 7 mtr. Head available at ground = 63 mtr.
1	W1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	W2	15	0	15	150	52.5	150	150	150	150	1.550	0.009	0.086	10.26	42.91	
3	W3	15	0	15	150	52.5	150	150	150	150	1.352	0.008	2.446	18.150	40.47	
4	W4	5	0	5	50	17.5	50	50	50	50	1.305	0.007	0.625	16.129	39.84	
5	W5	5	0	5	50	17.5	50	50	50	50	1.302	0.007	0.275	13.704	39.57	
6	W6	6	0	6	60	21	60	60	60	60	1.880	0.008	3.098	18.762	36.51	
7	W7	83	0	83	830	290.25	830	830	830	830	1.305	0.007	0.327	15.429	36.19	
8	W8	5	0	5	50	17.5	50	50	50	50	1.302	0.007	0.325	15.102	36.92	
9	W9	84	0	84	840	294	840	840	840	840	1.302	0.007	0.319	14.777	38.00	
10	W10	5	0	5	50	17.5	50	50	50	50	1.302	0.007	0.174	14.951	38.42	
11	W11	32	0	32	320	112	320	320	320	320	1.302	0.007	0.174	14.951	38.42	
12	W12	3	0	3	30	10.5	30	30	30	30	1.302	0.007	0.174	14.951	38.42	
13	W13	73	0	73	730	255.75	730	730	730	730	1.302	0.007	0.174	14.951	38.42	
14	W14	70	0	70	700	245	700	700	700	700	1.302	0.007	0.174	14.951	38.42	
15	W15	70	0	70	700	245	700	700	700	700	1.302	0.007	0.174	14.951	38.42	
16	W16	5	0	5	50	17.5	50	50	50	50	1.302	0.007	0.174	14.951	38.42	
17	W17	85	0	85	850	297.5	850	850	850	850	1.302	0.007	0.174	14.951	38.42	
18	W18	5	0	5	50	17.5	50	50	50	50	1.302	0.007	0.174	14.951	38.42	
19	W19	86	0	86	860	299	860	860	860	860	1.302	0.007	0.174	14.951	38.42	
20	W20	87	0	87	870	304.5	870	870	870	870	1.302	0.007	0.174	14.951	38.42	
21	W21	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
22	W22	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
23	W23	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
24	W24	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
25	W25	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
26	W26	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
27	W27	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
28	W28	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
29	W29	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
30	W30	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
31	W31	7	0	7	70	24.5	70	70	70	70	1.302	0.007	0.174	14.951	38.42	
32	W32	77	0	77	770	269.25	770	770	770	770	1.302	0.007	0.174	14.951	38.42	
33	W33	22	0	22	220	77	220	220	220	220	1.302	0.007	0.174	14.951	38.42	
34	W34	20	0	20	200	68	200	200	200	200	1.302	0.007	0.174	14.951	38.42	
35	W35	0	0	0	0	0	0	0	0	0	1.302	0.007	0.174	14.951	38.42	
36	W36	8	0	8	80	28	80	80	80	80	1.302	0.007	0.174	14.951	38.42	
37	W37	58	0	58	580	203	580	580	580	580	1.302	0.007	0.174	14.951	38.42	

SUB WORK No. 1		WATER SUPPLY	
Sub Head 5		Flushing/Irrigation System	
PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)			
S No.	Description		Amount
1	Providing, laying, jointing and testing pipes lines conforming uPVC/HDPE pipe 10 Kg/Sq.cm Class-IV (IS: 4985) including cost of excavation etc. complete in all respects.	<i>DEI</i>	<i>1.88</i>
1.1	25 mm Pipe 606 Mtr @ Rs. <del>460</del> <i>300/-</i>		Rs. <del>279,700.00</del>
1.2	32 mm Pipe 18 Mtr @ Rs. <del>500</del> <i>350/-</i>		Rs. <del>9,000.00</del> <i>0.06</i>
1.3	40 mm Pipe 38 Mtr @ Rs. <del>600</del> <i>450/-</i>		Rs. <del>22,800.00</del> <i>0.16</i>
2.1	<del>100</del> mm Pipe 4190 Mtr @ Rs. <del>900</del> <i>1460/- DE</i>		Rs. <del>37,71,000.00</del> <i>61.17</i>
2.2	<del>150</del> mm Pipe 1481 Mtr @ Rs. <del>1,600</del> <i>2040/- DE</i>		Rs. <del>23,69,600.00</del> <i>30.21</i>
2.3	<del>200</del> mm Pipe 10 Mtr @ Rs. <del>2,000</del> <i>2700/- DE</i>		Rs. <del>20,000.00</del>
2	Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.		
2.1	<del>100</del> mm 22 Each @ Rs. 12,000		Rs. 2,64,000.00
2.2	150 mm <del>6</del> Each @ Rs. <del>75,000</del>		Rs. <del>450,000.00</del>
3	Providing and fixing Garden Hydrant 141 Nos. @ Rs. <del>3,500</del> <i>5000/-</i> each		Rs. <del>4,93,500.00</del> <i>0.40 lacs</i>
4	Providing and fixing air release valve and scour valve 4 Nos. @ Rs. <del>2,000</del> each		Rs. <del>8,000.00</del> <i>7.05 lacs</i>
5	Indication plate for valves, hydrant AV etc.		Rs. 1,00,000.00
6	Provision for carriage of materials and other unforeseen items		Rs. 2,50,000.00
TOTAL CO to SUB WORK - 1			Rs. <del>76,22,400.00</del> <i>108.15 lacs</i>



FLUSHING MATERIAL SHEET							
Sl. No.	Node		Length	Proposed pipe dia in OD.	PIPE LENGTH DIA WISE		
					100 mm 75	150 mm 180	200 mm 225
1	F1	F2	10	200	0	0	10
2	F2	F3	303	150	0	303	0
3	F2	F32	86	150	0	86	0
2	F3	F4	38	150	0	38	0
3	F4	F31	389	100	389	0	0
4	F4	F6	45	150	0	45	0
5	F6	F29	388	100	388	0	0
6	F6	F8	45	150	0	45	0
7	F8	F27	388	100	388	0	0
8	F8	F10	44	150	0	44	0
9	F10	F11	259	100	259	0	0
10	F3	F11	14	100	14	0	0
11	F10	F25	388	100	388	0	0
12	F10	F12	55	150	0	55	0
13	F12	F23	389	100	389	0	0
14	F12	F13	38	150	0	38	0
15	F13	F21	388	100	388	0	0
16	F13	F15	46	150	0	46	0
17	F15	F19	388	100	388	0	0
18	F15	F17	427	150	0	427	0
19	F17	F19	44	150	0	44	0
20	F19	F21	45	150	0	45	0
21	F21	F23	38	150	0	38	0
22	F23	F25	55	150	0	55	0
23	F25	F27	44	150	0	44	0
24	F27	F29	45	150	0	45	0
25	F29	F31	45	150	0	45	0
26	F31	F32	38	150	0	38	0
27	F32	F33	27	100	27	0	0
28	F31	F35	37	100	37	0	0
29	F35	F36	55	100	55	0	0
30	F35	F37	311	100	311	0	0
31	F11	F39	222	100	222	0	0
32	F33	F39	209	100	209	0	0
33	F39	F40	36	100	36	0	0
34	F40	F42	75	100	75	0	0
35	F40	F41	227	100	227	0	0
TOTAL LENGTH In mtr.			5681		4190	1481	10



IRRIGATION MATERIAL SHEET							
Sl. No.	Node		Length	Proposed pipe dia in OD.	PIPE LENGTH DIA WISE		
					25	32	40
1	Main line	1	9	40	0	0	9
2	1	2	26	25	26	0	0
3	2	3	35	25	35	0	0
4	1	4	9	25	9	0	0
5	4	5	35	25	35	0	0
6	Main line	6	9	40	0	0	9
7	6	7	17	25	17	0	0
8	7	8	35	25	35	0	0
9	6	9	18	25	18	0	0
10	9	10	35	25	35	0	0
11	Main line	11	9	40	0	0	9
12	11	12	23	25	23	0	0
13	12	13	35	25	35	0	0
14	11	14	12	25	12	0	0
15	14	15	35	25	35	0	0
16	Main line	16	9	40	0	0	9
17	16	17	17	25	17	0	0
18	17	18	35	25	35	0	0
19	16	19	17	25	17	0	0
20	19	20	35	25	35	0	0
21	Main line	21	9	32	0	9	0
22	21	22	11	25	11	0	0
23	22	23	35	25	35	0	0
24	21	24	25	25	25	0	0
25	Main line	25	9	32	0	9	0
26	25	26	17	25	17	0	0
27	25	27	18	25	18	0	0
28	27	28	35	25	35	0	0
29	Main line	29	11	25	11	0	0
30	29	30	19	25	19	0	0
31	29	31	16	25	16	0	0
TOTAL LENGTH In mtr.			660		606	18	36



LAYOUT PLAN OF PROPOSED RESEIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL, JAM AWAS YOUNA SCHEME-2018 OVER AN AREA MEASURING 55.72366 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED14/01/2010)IN THE REVENUE ESTATE OF VILLAGE KARRI & TARAF HISSAR IN SECTOR-37,PANIPAT (HR).

Flowline, Water supply, hydraulic calculation

Sl. No.	Node	Plots self	Plots Branch	Plots Total	Total Population: (Plots Population @Average 18 Person/Plot	Water Demand @55 LPCD in KLD	Others building demand @35% of total water demand in KLD	Total water demand KLD	Peak based on 4 Hrs. in KLD	Peak Demand in LPM.	Length (m)	Proposed pipe dia in ID. (mm)	Velocity in m/sec	Frictional head loss in Mtr./Mtr.	Frictional head loss in total pipe in Mtr.	Cumulative Frictional Loss	Min. Residual Head at end	Remarks: pump head is 55 mtr. Pump room below = 7 mtr. Head available at ground = 48 mtr.																		
																			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	F1	0	0	940	16920	931	109	1039	173	2867	10	200	1.531	0.010	0.098	27.39	47.90																			
2	F2	35	0	470	8460	500	54	554	92	1540	303	150	1.451	0.012	3.747	27.296	48.153																			
3	F3	6	0	470	8460	471	54	526	88	1460	86	150	1.376	0.011	0.964	26.512	43.191																			
4	F4	5	0	470	8460	470	54	525	87	1457	38	150	1.374	0.011	0.424	23.549	42.767																			
5	F5	42	0	21	378	21	54	525	88	1459	45	150	1.375	0.011	0.504	23.124	42.263																			
6	F6	6	0	470	8460	471	54	525	88	1459	45	150	1.375	0.011	0.504	23.124	42.263																			
7	F7	41	0	21	369	20	54	524	87	1456	45	150	1.373	0.011	0.502	22.620	41.761																			
8	F8	5	0	470	8460	470	54	524	87	1456	44	150	1.373	0.011	0.491	22.118	41.270																			
9	F9	42	0	21	378	21	54	524	87	1456	44	150	1.373	0.011	0.491	22.118	41.270																			
10	F10	5	0	470	8460	470	54	524	87	1456	44	150	1.373	0.011	0.491	22.118	41.270																			
11	F11	22	0	11	198	11	54	524	87	1456	44	150	1.373	0.011	0.491	22.118	41.270																			
12	F12	2	0	470	8460	467	54	467	78	1298	14	160	6.516	0.029	7.411	21.628	33.859																			
13	F13	41	0	21	369	20	54	467	78	1298	368	160	0.283	0.002	0.617	22.744	33.242																			
14	F14	0	0	470	8460	465	54	519	87	1443	55	150	1.360	0.011	0.603	14.216	33.256																			
15	F15	40	0	20	360	20	54	519	87	1443	55	150	1.360	0.011	0.603	14.216	33.256																			
16	F16	5	0	470	8460	470	54	524	87	1456	38	150	1.373	0.011	0.424	13.513	32.832																			
17	F17	42	0	21	378	21	54	524	87	1456	38	150	1.373	0.011	0.424	13.513	32.832																			
18	F18	5	0	470	8460	470	54	524	87	1456	46	150	1.373	0.011	0.645	14.258	32.187																			
19	F19	41	0	21	369	20	54	524	87	1456	46	150	1.373	0.011	0.645	14.258	32.187																			
20	F20	41	0	21	369	20	54	524	87	1456	46	150	1.373	0.011	0.645	14.258	32.187																			
21	F21	0	0	470	8460	506	54	560	93	1555	427	150	1.466	0.013	5.380	12.676	32.319																			
22	F22	0	0	470	8460	465	54	519	87	1443	44	150	1.360	0.011	0.482	7.296	26.939																			
23	F23	0	0	470	8460	465	54	519	87	1443	45	150	1.360	0.011	0.493	6.814	26.528																			
24	F24	0	0	470	8460	465	54	519	87	1443	38	150	1.360	0.011	0.417	6.321	26.917																			
25	F25	0	0	470	8460	465	54	519	87	1443	55	150	1.360	0.011	0.603	5.904	26.906																			
26	F26	0	0	470	8460	465	54	519	87	1443	44	150	1.360	0.011	0.482	5.301	26.895																			
27	F27	0	0	470	8460	465	54	519	87	1443	45	150	1.360	0.011	0.493	4.819	26.884																			
28	F28	0	0	470	8460	465	54	519	87	1443	45	150	1.360	0.011	0.493	4.819	26.884																			
29	F29	0	0	470	8460	465	54	519	87	1443	45	150	1.360	0.011	0.493	4.819	26.884																			
30	F30	0	0	470	8460	465	54	519	87	1443	38	150	1.360	0.011	0.417	3.833	26.873																			
31	F31	0	0	470	8460	465	54	519	87	1443	37	160	0.732	0.009	0.249	4.419	26.858																			
32	F32	0	0	43	774	43	54	524	87	1456	37	160	0.594	0.006	0.232	1.646	26.657																			
33	F33	7	0	7	126	7	54	524	87	1456	55	160	0.097	0.000	0.012	0.012	26.653																			
34	F34	36	0	36	648	36	54	524	87	1456	31	160	0.497	0.005	1.462	1.462	26.843																			
35	F35	22	0	22	396	22	54	524	87	1456	22	160	0.759	0.010	2.194	3.416	26.826																			
36	F36	20	0	20	360	20	54	524	87	1456	209	160	1.008	0.017	3.490	4.170	26.822																			
37	F37	8	0	8	144	8	54	524	87	1456	36	160	0.456	0.004	0.138	0.680	26.822																			
38	F38	8	0	8	144	8	54	524	87	1456	75	160	0.110	0.000	0.021	0.021	26.820																			
39	F39	25	0	25	450	25	54	524	87	1456	69	160	0.345	0.002	0.521	0.521	26.820																			



SUB WORK No. 2

SEWERAGE SCHEME

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)							
S No.	Description						Amount (RS)
1	Providing, laying, jointing and testing Sewer pipe lines (stoneware pipes class SP-1/DWC pipe) including fittings, valves, Manholes & cost of excavation and connect to STP.						
a)	200 mm dia Average Depth upto 3 Mtr.	5203	Mtr.	@	Rs. 1,700	Rs. 88,45,100.00	
b)	250 mm dia Average Depth upto 3 Mtr.	117	Mtr.	@	Rs. 2,000	Rs. <del>234,000.00</del> <i>2.34 Lacs</i>	
c)	300 mm dia Average Depth upto 3 Mtr.	48	Mtr.	@	Rs. 2,000	Rs. <del>96,000.00</del> <i>1.38 Lacs</i>	
d)	400 mm dia Average Depth upto 3.5 Mtr.	133	Mtr.	@	Rs. 3,500	Rs. 4,65,500.00	
e)	500 mm dia Average Depth upto 3.5 Mtr.	77	Mtr.	@	Rs. 4,500	Rs. 3,46,500.00	
					<i>1600%</i>	<i>360.00 Lacs</i>	
2	Sewage Treatment Plant of	2200	KL	@	Rs. <del>20,000</del> <i>KL</i>	Rs. <del>44,00,000.00</del>	
3	Provision for providing oblique junctions (L.S)						Rs. 2,00,000.00
4	Provision for temporary timbering etc. (L.S)						Rs. 2,50,000.00
5	Provision for cartage of material (L.S) <i>Et other unforeseen items</i>						Rs. <del>1,00,000.00</del>
6	Provision for making connection with HUDA sewer <i>on master Road (L.S)</i>						Rs. 2,00,000.00
7	<i>Provision for vent shafts at suitable places as per P.H. requirement</i>						Rs. 7.50 Lacs
TOTAL CO TO FINAL ABSTRACT OF QUANTITY						Rs. <del>92,22,300.00</del>	
						<i>Rs. 4,84.29 Lacs</i>	



MATERIAL STATEMENT FOR SEWER									
SI NO.	LINE		Length of line	Dia of Pipe	DIA OF PIPE				
					IN (MM)				
					200	250	300	400	500
1	S1	S3	120	200	120	-	-	-	-
2	S2	S3	24	200	24	-	-	-	-
3	S3	S9	393	200	393	-	-	-	-
4	S4	S6	412	200	412	-	-	-	-
5	S5	S6	375	200	375	-	-	-	-
6	S6	S8	53	200	53	-	-	-	-
7	S7	S8	379	200	379	-	-	-	-
8	S8	S9	37	250	-	37	-	-	-
9	S9	S11	48	300	-	-	48	-	-
10	S10	S11	385	200	385	-	-	-	-
11	S11	S13	43	400	-	-	-	43	-
12	S12	S13	379	200	379	-	-	-	-
13	S13	S15	45	400	-	-	-	45	-
14	S14	S15	379	200	379	-	-	-	-
15	S15	S20	45	400	-	-	-	45	-
16	S18	S20	379	200	379	-	-	-	-
17	S17	S19	58	200	58	-	-	-	-
18	S18	S19	302	200	302	-	-	-	-
19	S19	S20	31	200	31	-	-	-	-
20	S20	S26	49	500	-	-	-	-	49
21	S21	S23	83	200	83	-	-	-	-
22	S22	S23	212	200	212	-	-	-	-
23	S23	S25	39	200	39	-	-	-	-
24	S24	S25	186	200	186	-	-	-	-
25	S25	S26	241	200	241	-	-	-	-
26	S26	S30	13	500	-	-	-	-	13
27	S27	S29	226	200	226	-	-	-	-
28	S28	S29	167	200	167	-	-	-	-
29	S29	S30	380	200	380	-	-	-	-
30	S30	SUMP	15	500	-	-	-	-	15
31	STP BYPASS TO	HUDA	80	250	-	80	-	-	-
TOATL			5578		5203	117	48	133	77







SUB WORK No. 3

STORM WATER DRAINAGE

PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.8 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)

S No.	Description	Amount
1	Providing, laying, RCC pipe class NP-3 excavation, manholes etc. complete in all respects	
a)	400 mm dia Average Depth upto 2 Mtr. 5175 Mtr. @ Rs. 2,500	Rs. 1,29,45,000.00
b)	500 mm dia Average Depth upto 2 Mtr. 46 Mtr. @ Rs. 3,400	Rs. 1,56,400.00
c)	600 mm dia Average Depth upto 2 Mtr. 92 Mtr. @ Rs. 4,500	Rs. 4,14,000.00
d)	700 mm dia Average Depth upto 2 Mtr. 91 Mtr. @ Rs. 5,085	Rs. 4,62,165.00
e)	800 mm dia Average Depth upto 2 Mtr. 45 Mtr. @ Rs. 4,000-6715	Rs. 2,79,000.00
f)	800 mm dia Average Depth upto 2.5 Mtr. 30 Mtr. @ Rs. 4,900-8200	Rs. 4,95,000.00
g)	1000 mm dia Average Depth upto 2.5 Mtr. 30 Mtr. @ Rs. 7,000-9800	Rs. 2,10,000.00
2	Provision for lighting and watching and temporary diversion of traffic	Rs. 10,00,000.00
3	Provision for road gullies & connecting pipe L.S.	Rs. 20,00,000.00
4	Provision for rainwater harvesting arrangements for road & green area (excluding plot & amenity area) <i>Rs. 4,50,000.00 per acre - 20 NOS @ Rs. 3,50 / nos each</i> <i>10-50296 - Acre</i>	Rs. 70,00,000.00
5	Provision for timbering & shoring (L.S.)	Rs. 5,50,000.00
6	Provision for making connection with HUDA (L.S.)	Rs. 20,00,000.00
7	<i>Prov. for cutting of road &amp; marking its in original (L.S.)</i>	Rs. 5,00,000.00
<b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>		<b>Rs. 2,67,75,732.00</b>

8. *Prov. for temporary disposal arrangements by HWP services are provide (L.S) Rs 50-00 lacs*  
*Rs 310.70 lacs*



MATERIAL STATEMENT FOR DRAINAGE											
Sl NO.	LINE		Length of line	Dia of Pipe	DIA OF PIPE						
					IN (MM)						
					400	500	600	700	800	900	1000
1	D1	D3	124	400	124	-	-	-	-	-	-
2	D2	D3	28	400	28	-	-	-	-	-	-
3	D3	D4	138	400	138	-	-	-	-	-	-
4	D4	D5	134	400	134	-	-	-	-	-	-
5	D5	D18	111	400	111	-	-	-	-	-	-
6	D6	D7	117	400	117	-	-	-	-	-	-
7	D7	D8	134	400	134	-	-	-	-	-	-
8	D8	D9	120	400	120	-	-	-	-	-	-
9	D9	D13	46	400	46	-	-	-	-	-	-
10	D10	D11	121	400	121	-	-	-	-	-	-
11	D11	D12	134	400	134	-	-	-	-	-	-
12	D12	D13	119	400	119	-	-	-	-	-	-
13	D13	D17	45	400	45	-	-	-	-	-	-
14	D14	D15	119	400	119	-	-	-	-	-	-
15	D15	D16	142	400	142	-	-	-	-	-	-
16	D16	D17	111	400	111	-	-	-	-	-	-
17	D17	D18	46	500	-	46	-	-	-	-	-
18	D18	D22	42	600	-	-	42	-	-	-	-
19	D19	D20	165	400	165	-	-	-	-	-	-
20	D20	D21	135	400	135	-	-	-	-	-	-
21	D21	D22	112	400	112	-	-	-	-	-	-
22	D22	D26	50	600	-	-	50	-	-	-	-
23	D23	D24	128	400	128	-	-	-	-	-	-
24	D24	D25	134	400	134	-	-	-	-	-	-
25	D25	D26	111	400	111	-	-	-	-	-	-
26	D26	D30	45	700	-	-	-	45	-	-	-
27	D27	D28	127	400	127	-	-	-	-	-	-
28	D28	D29	134	400	134	-	-	-	-	-	-
29	D29	D30	112	400	112	-	-	-	-	-	-
30	D30	D38	46	700	-	-	-	46	-	-	-
31	D31	D32	127	400	127	-	-	-	-	-	-
32	D32	D33	134	400	134	-	-	-	-	-	-
33	D33	D38	111	400	111	-	-	-	-	-	-
34	D34	D35	151	400	151	-	-	-	-	-	-
35	D35	D37	155	400	155	-	-	-	-	-	-
36	D36	D37	54	400	54	-	-	-	-	-	-
37	D37	D38	42	400	42	-	-	-	-	-	-
38	D38	D45	45	800	-	-	-	-	45	-	-
39	D39	D40	177	400	177	-	-	-	-	-	-
40	D40	D42	56	400	56	-	-	-	-	-	-
41	D41	D42	167	400	167	-	-	-	-	-	-
42	D42	D43	187	400	187	-	-	-	-	-	-
43	D43	D44	85	400	85	-	-	-	-	-	-
44	D44	D45	111	400	111	-	-	-	-	-	-
45	D45	D52	30	900	-	-	-	-	-	30	-
46	D46	D48	73	400	73	-	-	-	-	-	-
47	D47	D48	218	400	218	-	-	-	-	-	-
48	D48	D50	49	400	49	-	-	-	-	-	-
49	D49	D50	185	400	185	-	-	-	-	-	-
50	D50	D51	78	400	78	-	-	-	-	-	-
51	D51	D52	117	400	117	-	-	-	-	-	-
52	D52	Outfall	30	1000	-	-	-	-	-	-	30
TOATL			5512		5178	46	92	91	45	30	30





LAYOUT PLAN OF PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAWANAS YOUNA SCHEME 2014 OVER AN AREA MEASURING 54.73384 ACRES/AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010/AN THE REVENUE OFFICE OF VILLAGE KAMB & TAMAP INSAR IN SECTOR-37, PANPAT (IB)

BL NO	LINE NO.		LENGTH	SELF AREA TO BE DRAINED IN SQM	AREA IN HECTARES			DISCHARGE IN CUMSEC RAIN INTENSITY = 8.25 mm/hr	VELOCITY		DISCHARGE CAPACITY	GROUND LEVEL AT START	GROUND LEVEL AT END	FALL	INVERT LEVEL AT START	INVERT LEVEL AT END	DEPTH AT START	DEPTH AT END
	FROM	TO			SELF	BRANCH	TOTAL		M/SEC	FT IN								
1	01	03	124	3646	0.365	0.000	0.365	32.78	0.64	72.81	OK	234.14	234.05	0.25	232.94	232.69	1.20	1.36
2	02	03	38	3430	0.243	0.000	0.243	15.19	0.64	72.81	OK	234.00	234.05	0.06	232.80	232.74	1.20	1.31
3	03	04	138	6340	0.634	0.808	1.232	75.98	0.64	72.81	OK	234.05	233.98	0.28	232.69	232.42	1.36	1.54
4	04	05	134	6236	0.624	1.232	1.856	113.05	0.64	72.81	OK	233.96	233.70	0.27	232.42	232.15	1.54	1.55
5	05	06	111	6001	0.600	1.855	2.455	163.46	0.64	72.81	OK	233.70	233.68	0.22	232.15	231.93	1.55	1.73
6	06	07	117	2980	0.298	0.000	0.298	16.63	0.64	72.81	OK	234.09	233.80	0.23	232.89	232.66	1.20	1.24
7	07	08	134	2970	0.298	0.200	0.598	32.24	0.64	72.81	OK	233.90	233.82	0.27	232.66	232.39	1.24	1.43
8	08	09	120	2924	0.290	0.596	0.886	55.39	0.64	72.81	OK	233.82	233.70	0.24	232.39	232.15	1.43	1.56
9	09	10	46	0	0.000	0.886	0.886	55.39	0.64	72.81	OK	233.70	233.75	0.09	232.15	232.08	1.55	1.69
10	10	11	121	6240	0.607	0.000	0.607	37.93	0.64	72.81	OK	234.14	233.85	0.24	232.94	232.70	1.20	1.26
11	11	12	134	6264	0.606	0.607	1.213	75.83	0.64	72.81	OK	233.85	233.80	0.27	232.70	232.43	1.25	1.37
12	12	13	118	5914	0.591	1.213	1.805	113.79	0.64	72.81	OK	233.60	233.75	0.24	232.43	232.19	1.37	1.50
13	13	14	45	0	0.000	2.691	2.691	168.18	0.64	72.81	OK	233.75	233.73	0.09	232.06	231.97	1.61	1.76
14	14	15	118	6547	0.603	0.000	0.603	37.79	0.64	72.81	OK	234.09	234.00	0.24	232.89	232.65	1.20	1.35
15	15	16	142	6543	0.604	0.606	1.210	75.56	0.64	72.81	OK	234.00	233.80	0.28	232.65	232.37	1.35	1.43
16	16	17	111	3950	0.399	1.200	1.799	112.39	0.64	72.81	OK	233.80	233.73	0.22	232.37	232.15	1.43	1.69
17	17	18	48	0	0.000	4.489	4.489	289.29	0.64	72.81	OK	233.73	233.68	0.07	231.87	231.80	1.60	1.80
18	18	19	42	0	0.000	6.945	6.945	434.03	0.64	72.81	OK	233.66	233.64	0.05	231.70	231.65	1.56	1.69
19	19	20	165	7940	0.794	0.000	0.794	49.63	0.64	72.81	OK	234.00	233.90	0.33	232.80	232.47	1.20	1.43
20	20	21	135	6562	0.656	0.794	1.450	83.51	0.64	72.81	OK	233.90	233.80	0.27	232.47	232.20	1.43	1.60
21	21	22	112	3987	0.398	1.400	1.899	124.93	0.64	72.81	OK	233.80	233.64	0.22	232.20	231.98	1.60	1.80
22	22	23	50	0	0.000	8.943	8.943	569.98	0.64	72.81	OK	233.64	233.59	0.06	231.03	231.99	1.99	2.00
23	23	24	128	6205	0.607	0.000	0.607	37.91	0.64	72.81	OK	233.95	233.60	0.28	232.76	232.50	1.20	1.37
24	24	25	134	6665	0.607	0.607	1.213	75.81	0.64	72.81	OK	233.80	233.70	0.27	232.50	232.24	1.30	1.46
25	25	26	111	5902	0.590	1.213	1.803	112.70	0.64	72.81	OK	233.70	233.59	0.22	232.24	232.01	1.46	1.66
26	26	27	45	0	0.000	3.747	3.747	237.08	0.64	72.81	OK	233.59	233.50	0.04	231.49	231.45	2.10	2.14
27	27	28	127	6665	0.607	0.000	0.607	37.91	0.64	72.81	OK	233.51	233.60	0.24	232.71	232.46	1.20	1.34
28	28	29	134	6665	0.607	0.607	1.213	75.81	0.64	72.81	OK	233.60	233.64	0.27	232.46	232.19	1.34	1.45
29	29	30	112	5902	0.590	1.213	1.803	112.70	0.64	72.81	OK	233.64	233.69	0.22	232.19	231.96	1.45	1.63
30	30	31	46	0	0.000	12.540	12.540	794.36	0.64	72.81	OK	233.50	233.48	0.04	231.45	231.41	2.14	2.07
31	31	32	127	6665	0.607	0.000	0.607	37.91	0.64	72.81	OK	233.87	233.76	0.25	232.67	232.42	1.20	1.33
32	32	33	134	6665	0.607	0.607	1.213	75.81	0.64	72.81	OK	233.70	233.59	0.27	232.42	232.15	1.33	1.44
33	33	34	111	5973	0.597	1.213	1.770	119.64	0.64	72.81	OK	233.59	233.48	0.22	232.15	231.93	1.44	1.55
34	34	35	151	8189	0.820	0.000	0.820	56.74	0.64	72.81	OK	233.66	233.60	0.30	232.46	232.16	1.29	1.44
35	35	36	105	5973	0.597	0.600	1.177	73.50	0.64	72.81	OK	233.60	233.45	0.11	232.16	231.85	1.44	1.60
36	36	37	54	2126	0.213	0.000	0.213	11.30	0.64	72.81	OK	233.27	233.45	0.11	232.07	231.96	1.29	1.45
37	37	38	42	0	0.000	1.300	1.300	86.86	0.64	72.81	OK	233.45	233.48	0.08	231.85	231.76	1.60	1.72
38	38	39	45	0	0.000	15.710	15.710	983.88	0.64	72.81	OK	233.48	233.44	0.04	231.31	231.27	2.17	2.17
39	39	40	177	2017	0.432	0.000	0.432	30.23	0.64	72.81	OK	233.66	233.78	0.35	232.75	232.40	1.39	1.36
40	40	41	56	0	0.000	0.632	0.632	39.23	0.64	72.81	OK	233.76	233.82	0.11	232.40	232.28	1.36	1.54
41	41	42	167	4204	0.435	0.000	0.435	30.46	0.64	72.81	OK	233.66	233.82	0.33	232.70	232.43	1.20	1.36
42	42	43	167	7563	0.756	1.067	1.823	113.95	0.64	72.81	OK	233.62	233.63	0.37	232.26	231.91	1.54	1.72

SL NO	LINE NO.		LENGTH MTR	SELF AREA TO BE DRAINED IN SQM	AREA IN HECTARES		DISCHARGE IN CUM/SEC RAIN INTENSITY =111 mm/hr	DRICHA RIF	PIPE DIA SLOPE	VELOCITY M/SEC	DISCHARGE/CHECK CAPACITY	GROUND LEVEL AT START	GROUND LEVEL AT END	FALL MTR	INVERT LEVEL AT START	INVERT LEVEL AT END	DEPTH AT START	DEPTH AT END
	FROM	TO			SELF	BRANCH												
43	D63	D64	85	3365	0.337	1.827	2.160	134.08	37.50	400	0.64	72.61	OK	233.50	231.74	231.74	1.72	1.76
44	D64	D65	113	5357	0.534	2.160	2.694	188.35	46.76	400	0.64	72.61	OK	233.44	231.74	231.52	1.76	1.62
45	D65	D62	30	0	0.000	18.424	18.424	1150.23	318.51	900	0.64	368.40	OK	233.44	231.17	231.15	2.27	2.25
46	D66	D68	75	7202	0.720	0.000	0.720	45.01	12.50	400	0.64	72.61	OK	233.55	232.20	232.20	1.30	1.27
47	D67	D68	214	20163	2.016	0.000	2.016	126.02	35.01	400	0.64	72.61	OK	233.71	232.07	232.07	1.60	1.40
48	D68	D60	49	0	0.000	2.737	2.737	171.03	47.61	400	0.64	72.61	OK	233.47	231.08	231.08	1.40	1.62
49	D69	D50	185	6604	0.660	0.000	0.660	43.15	11.99	400	0.64	72.61	OK	233.79	232.22	232.22	1.50	1.30
50	D60	D51	78	3272	0.327	3.427	3.754	233.38	64.03	400	0.64	72.61	OK	233.60	231.88	231.82	1.62	1.68
51	D51	D52	117	4197	0.420	3.734	4.154	259.81	72.11	400	0.64	72.61	OK	233.50	231.62	231.59	1.68	1.81
52	D52	Outfall	30	0	0.000	22.255	22.255	1409.84	387.62	1000	0.64	453.34	OK	233.40	231.03	231.03	2.35	2.37



PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010)IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37,PANIPAT (HR.)

Width in meter	length in meter	Metalled Portion	Area in Sqm.
9	5266918	5.5	29258
12	887	5.5	4878.5
24	1048	14 (2x7)	14672
<b>Total</b>	<b>7291</b>		<b>48788.5</b>
	360	Add 5% for curves	2439.425
	7561	<b>Total Area</b>	<b>51228</b>

28963  
 48513.50  
 2439.47  
 50939.17  
 50940

S No.	Description	Amount
1	Provision for leveling & earth filling as per site condition Approx 55.72396 Acre @ Rs. 1,75,000 per acre	Rs. 97,51,693.00
2a	Setting stone 300mm thick (90-63mm) gauge completed to 75mm thick GSB specification & Confirming to MDT Specification (Table 400-5 grading No-2) const. of Road with 200MM GSB	
2b	Wearing coat (Top coat) 100mm (63-40mm) gauge completed to 76mm thick WBM specification & Confirming to MDT Specification (Table 1400-6 grading No-3) 50 MM WBM	
2c	50 mm thick pre-mix carpet with seal coat 20 mm thick M55 20 MM B.C	
	50940 - 51228 Sqm @ Rs. 1,500 per sqm	Rs. 7,65,41,887.50
3	Provision for guide map and other unforeseen items L.S	Rs. 2,00,000.00
4	Provision for plot indicators L.S	Rs. 5,00,000.00
5	Provision for demarcating burgies L.S	Rs. 3,00,000.00
6	Provision for traffic arrangement L.S	Rs. 2,50,000.00
7	Provision for making approach to each plot as per specification 2x7561 Cement concrete kerb & Channels	Rs. 90.73 lacs
	Approx 55.72396 Acre @ Rs. 10,000 per acre = 15122 @ 6000 mt	Rs. 57,239.60
8	Provision for cartage of material & unforeseen items L.S	Rs. 1,00,000.00
<b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>		<b>Rs. 9,40,00,820.10</b>

9. Prov. for pavement in commercial area  
 i.e. 50% of the area =  $\frac{1.115 \times 4047}{2} = 2256 \text{ sqm} = 33.84 \text{ lacs}$   
 @ Rs. 1500/sqm

10. Prov. for culverts on khol (2 karam wide)  
 (11'0") L.S. = 20.00 lacs

11. Prov. for footpath on 24 mt wide Road  
 80 mm thick paver block over 100mm thick  
 C.C. of specified grade 1:4:8 under 60mm  
 thick paver block  $1045 \times 2 \times 17.5 = 3665 \text{ sqm}$   
 @ 1000/sqm = 36.68 lacs  
Rs. 1065.37 lacs



**PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF  
INTERNAL DEVELOPMENT WORKS FOR PROPOSED  
RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN  
AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING  
55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF  
2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE  
KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)**

Sl. No.	Node	Road Width in Mtr.		
		9Mtr. Wide	12 Mtr. Wide	24Mtr. Wide
1	R1	306	....	....
2	R2	379	....	....
3	R3	374	....	....
4	R4	374	....	....
5	R5	374	....	....
6	R6	360	....	....
7	R7	405	....	....
8	R8	419	....	....
9	R9	361	....	....
10	R10	378	....	....
11	R11	208	....	....
12	R12	131	....	....
13	R13	397	....	....
14	R14	376	....	....
15	R15	35	....	....
16	R16	36	....	....
17	R17	36	....	....
18	R18	<del>36</del> 36	....	....
19	R19	36	....	....
20	R20	36	....	....
21	R21	36	....	....
22	R22	36	....	....
23	R23	36	....	....
24	R24	36	....	....
25	R25	36	....	....
26	R26	29	....	....
27	R27	....	....	565
28	R28	....	....	483
29	R29	....	253	....
30	R30	....	110	....
31	R31	....	161	....
32	R32	....	363	....
	<b>Total</b>	<del>6316</del> 5266	887	1048



PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.6 OF 2010 DATED 14.01.2010) IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37, PANIPAT (HR.)

S No.	Description	Amount
1	Providing street lighting on roads as per standard specifications of HVPN.	
	Approx 55.72 Acre @ Rs. 2,50,000 per acre	Rs. 1,39,30,990.00
	<b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>	<del>Rs. 1,39,30,990.00</del>

Say Rs 139.31 Lacs



PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2016 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.8 OF 2010 DATED 14.01.2010)IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37 PANIPAT (HR.)

S No.	Description	Amount
1	<b>Development of Green areas</b>	
a	Trenching the ordinary soil up to dept 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 earth and manure	
b	Rough dressing of park 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 mowing in rows 7.5m apart in either direction including provision for hedges and barbed wire fencing around park.	
	Approx. <del>4.17500</del> Acres @ Rs. 1,50,000 per Acres	Rs. <del>6,26,250.00</del>
2	<b>Planting Tree</b>	
a	Provision of trees, along 9.0 M wide(One Side) and both side on the 12mtr. & 24 mtr. Road at 12 Mtr intervals.	
	$\frac{346}{12} + \frac{(887+1048)}{12} \times 2$ : 766 @ Rs. 1,800 per tree	Rs. <del>13,78,800.00</del>
	<b>5266</b> TOTAL CO to FINAL ABSTRACT OF QUANTITY	Rs. <del>20,04,750.00</del>

Rs. 20.11 lacs





PROJECT REPORT/SERVICE ESTIMATE AND CALCULATION OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED RESIDENTIAL PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA SCHEME-2014 OVER AN AREA MEASURING 55.72396 ACRES(AFTER MIGRATION FROM LICENCE NO.8 OF 2010 DATED 14.01.2010)IN THE REVENUE ESTATE OF VILLAGE KABRI & TARAF INSAAR IN SECTOR-37,PANIPAT (HR.)

S No.	Description	Amount
1	Provision for maintenance charge for Water supply, sewerage, storm water, Drainage, roads, street light, Hort. Etc. Complete including operation & Establishment charges as per HUDA Norms after completion. <i>8.00 Laacs</i>	<i>425.78 Laacs</i>
	Area 55.72396 Acre @ Rs. <del>250,000</del> <i>7,638</i> per acre	Rs. <del>14,192,970.00</del>
2	Provision for resurfacing of roads after First five year of maintenance.	<i>336.20 Laacs</i>
	Total Road area <i>5094</i> <del>4128</del> Sqmt @ Rs. 660 <i>h</i> per Sqmt	Rs. <del>2,725,680.00</del>
3	Provision for resurfacing of roads after 10 Years of MTC.	<i>420.26 Laacs</i>
	Total Road area <i>5094</i> <del>4128</del> Sqmt @ Rs. 825 <i>h</i> per Sqmt	Rs. <del>3,405,600.00</del>
<b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>		Rs. <del>14,78,66,438.63</del>

*1202.24 Laacs*

