EXTERNAL DEVELOPMENT WORKS DESIGN AND COST ESTIMATES

FOR

PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 2.36875 ACRES (LICENECE NO.48 DATED 18.04.2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY RECEPTIVE BUILDWELL LLP.

DEVELOPED BY:

RECEPTIVE BUILDWELL LLP.

For RECEPTIVE BUILDWELL LLP

Authorised Signatory

GIAN P. MATHUR
ARCHITECT
B. Arch.., M.C.A. I.I.A
CA No. 80/5769

V CONSULTING
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PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 2.36875 ACRES (LICENECE NO.48 DATED 18.04.2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY RECEPTIVE BUILDWELL LLP.

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT BUILDING PLAN FOR PROPOSED BUILDING PLAN OF COMMERCIAL COLONY ON THE AREA MEASURING - 2.36875 ACRES (LICENSE NO. 48 OF 2023 DATED 18/04/2022) IN SECTOR - 89, GURUGRAM BEING DEVELOPED BY RECEPTIVE BUILDWELL LLP.

Gurgaon Manesar Urban Complex of Haryana State situated on N.H.- 8 Highway at a distance of 50 Kms from Delhi. Being the National Capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing residentials load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Govt. to establish various residential, and other infrastructure sectors in Gurgaon Being Developed BY PROPOSED BUILDING PLAN OF COMMERCIAL COLONY ON THE AREA MEASURING - 2.36875 ACRES (LICENSE NO. 48 OF 2023 DATED 18/04/2022) IN SECTOR - 89, GURUGRAM BEING DEVELOPED BY RECEPTIVE BUILDWELL LLP.

WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Boosting station/ HSVP Water Supply. It has been proposed to construct the under ground 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 tankers and HSVP supply, which will feed overhead tanks on the roof of the buildings. The water supply system has been designed as per Hazen Williams formula.

DESIGN

The scheme has been designed for population of approx 12535 persons for Commercial Building. The rate of water supply per head / day has been taken as (Staff = 45 liters , Visitor = 15 liters , Restaurant = 70Litre) as per HSVP norms in addition to above necessary provision of water for club and parks etc. have been taken into account for calculating the maximum quantity of water requirement.

PUMPING REQUIREMENTS

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any electricity failure.

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UNDERGROUND STORATE TANK

Underground storage tank provision has been made in two compartments, which cater for the domestic as well as for fire fighting requirement. The water for fire water compartment shall overflow to the domestic compartment so that the water in the fire compartment also remain full & fresh and wilil not contaminate.

BOOSTING STATION

The boosting station is being planned near underground storage tank catering to above requirement.

DISTRIBUTION SYSTEM

The distribution system for this development has been designed to supply @ (Staff = 45 liters, Visitor=15Litre, Restaurant = 70Litre and Offices) per head per day @ 3 times the average rate of flow on Hazen William formula. Necessary provisiton for laying CI/DI pipes confirming to relevant IS standard along with valves and special has been made in the project. THe minimumterminal head at any point will be more than 50 so that it can be serve the 2B+LG+UG+12 floors construction envisaged in the plan. Minimum pipe dia. for distribuiton is kept as 100 mm dia.

RISING MAIN

Raising main from HSVP water main or sector road to water work have also been proposed as provision has been made in this estimate.

SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to HSVP sewer main. The sewerage system has been marked on respective plans.

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

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STORM WATER DRAINAGE

Since the Master Scheme has been proposed with pipe drain with rain water harvesting pit, we proposed to lay pipe drains with required number of catch basins for disposal of storm water to harvesting pit. The intensity of rain fall has been taken as 40 mm per hour. A minimum size of 400 mm dia pipe storm water pipe will be provided and designed as per Manning's formula.

FIRE

As per N.B.C. (National Buiding Code), fire tanks & required capacity pumps have been provided the plan as shown on the plan. Similarlly irrigation pumps of required capacity provided as shown on the plan.

SPECIFICATIONS

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

ROADS

Cost of Road has been taken in the estimate.

STREETLIGHTING

Provision of lighting on surrounding area has been made.

HORTICULTURE

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

RATES

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

For RECEPTIVE BUILDWELL LLP

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COST

The total cost of the scheme, including cost of all services works out to be Rs ~~637.93~~ 583.30 Lacs Including 3% contingencies and 49% departmental charges, price escalation & other unforseen charges. Cost of per Acres Rs ~~269.31~~ 246.25 Lacs.

RECEPTIVE BUILDWELL LLP.

(AUTHORIZED SIGNATORY)

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(I)	**DAILY WATER REQUIREMENT FOR COMMERCIAL & OFFICE BUILDING .**			
1	**Lower Ground + Upper Ground +Mezzanine Ground Floor** (9568.509) sqm @ 3 sqmt/ person	=	3190	Persons
2	**1st Floor** 4011.732 sq.m @ 6 sqmt/ person	=	669	Persons
4	**Total Population**	=	**3858**	**Persons**
a)	Shopkeepers @ 10% of Population	=	386	Persons
	@ 45 LPCD	=	17361.5625	Liters/ Day
b)	Visitors @ 90% of Population	=	3472	Persons
	@ 15 LPCD	=	52084.6875	Liters/ Day
5	**2nd Floor + Mezzanine**			
a)	Commercial 3489.519 sqm@1.8sqm per person	=	582	Persons
	@ 45 LPCD		26171	Liters/ Day
6	**3rd to 12th Floor**			
a)	Office Area 16767.355 sqm@10sqm per person	=	1677	person
	@ 45 LPCD	=	75453.10	Liters/ Day
8	Maintenance staff	=	25	Persons
	@ 45 LPCD	=	1125	Liters/ Day
9	Back Wash Filters - L.S.	=	3000	Liters/day
	Total water demand	=	**175196**	**Liters/day**
	SAY	=	**175**	**KLD**
	Horticulture & Road Work			
a)	Area under Green area 1437.89 sqmt	=	1437.89	SQMT
	@ ~~5~~ 6.18 Ltrs./Sqmt	=	8886 ~~7189~~	Liters
b)	Area under road + Paved area =9585.976-(5070.535+1437.89)=3078.086	=	0.75637	Acres
	@ ~~2~~5 K.L./Acre	=	3781.85 ~~18909.23~~	Liters
	Total Water Demand	=	12667.85 ~~26099~~	Liters
	Say	=	**~~27000~~**	**Liters**
			12.67 or 15KL	
	The demand of horiculture & road work will met from recirculates water after treatment at S.T.P.			
	Total water demand	=	175196	Liters/day

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	=	175.196	KLD
Say	=	176	KLD
Domestic water demand			
60% of AV/WD of (A)	=	105117	Liters/day
Domestic water demand (KLD)	=	105.12	KLD
Or Say	=	**106.00**	**KLD**
Flushing water demand			
40% of AV/WD	=	70078	Liters/day
Flushing water demand (KLD)	=	70.08	KLD
Or Say	=	**70.00**	**KLD**
Sewage Treatment Plant Capacity			
Average Sewerage Contribution Considering 80% of AV domestic water demand & 100% of AV/Flushing demand	=	154800	Liter / Day
Sewage Treatment Plant Capacity (KLD)	=	154.80	KLD
Or Say	=	**155.00**	**KLD**
Sewage scheme			
Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	482600	Liters
	=	107244	GPD
	=	0.199	Cusces

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(I)	**BOOSTING STATION FOR COMMERCIAL & OFFICE BUILDING**		
	Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day		
(a)	Total domestic water demand = KLD	=	106.00
(b)	Number of borewells ~~226~~ 106/(18 x 16)	=	0.37
	Add 10% extra	=	0.04
	Total	=	0.40
	Say	=	**1.00**

So, it is proposed to provide ~~Two~~ One **No. (1W+~~1S~~)** (One working & ~~One~~ standby)). Moreover, the water demand for horticulture purposes is to met from recirculated water after treatment at STP and ultimate water supply is to provided by HUDA.

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COMMERCIAL & OFFICE BUILDING

(I)		**Pumping Machinery for Boosting Station**			
		Gross working Head	=	50.0	Meters
		Average Fall in S.L.	=	5.0	Meters
		Depression Head	=	5.0	Meters
		Friction loss in main + Postive head	=	10.0	Meters
		Total	=	70.0	Meters
		Or Say	=	**70.0**	**Meters**
		Pump HP = 18000 x 70 x 100 / 60 x 60 x 75 x 70	=	~~6.67~~ 7.77	H.P.
		Or Say	=	~~**7.00**~~ **10.0**	**H.P.**
		It is proposed to provide 2 Nos. of 7HP moters 70 Mtr head (1 Working & 1 standby)			
(II)		**Plumbing Machinery for Domestic & ~~Flushing Tank~~**			
	a)	Total Domestic Water Demand	=	105117	Liters
		Day Storage (Equal to Half day)	=	52.56	KLD
		Or Say	=	~~**115.0**~~ 60.0	KLD
		Fire Tank provided as per N.B.C. Norms	=	**350.00**	**KLD**
		Hence it is proposed to construct an underground tank of ~~376~~ 410 KLD having ~~188~~ 30 KLD for treated water, ~~188~~ 30 KLD as raw water, and 350 KLD for fire fighting purpose as per location shown on plan ~~i.e. Total 726 K.L.D~~. and 45KLD Cap. F. water Tank Nearby Total = 455KLD			
(III)		**Boosting Machinery**			
	a)	For Under Ground Tank			
		Total water demand (Domestic)	=	115.00	KLD
		L.P.M. for 6 hour pumping	=	319.44	LPM
		Or Say	=	**320.00**	**LPM**
		Gross Working Head			
	-	Suction lift	=	3.00	Meters
	-	Delivery head	=	5.00	Meters
	-	Frictional loss in Mains & Specials+ Positive head	=	~~5.0~~ 9.50	Meters
	-	Clear head required (totel building height)	=	~~70~~ 22.8	Meters
		Total	=	~~40.3~~	Meters
		Or Say	=	**BS** ~~**45.0**~~	**Meters**
		Pump HP = 320 x ~~45~~ BS x 100 / 60 x 75 x 70	=	~~4.57~~ 14.81	H.P.
		Or Say	=	~~**5.00**~~ **15.0**	**H.P.**
		It is proposed to provide 2 nos. of motors of ~~5~~ 15.0 HP sets of 320 LPM discharge at ~~45~~ BS M head (One pumps working and One as standby for domestic supply & generator set of same capacity in case of electric failure) for domestice purpose.			

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b)		Flushing water supply requirement			
	(ii)	Flushing water supply demand	=	70078	liters/day
		Flushing water demand (KLD)	=	70.08	KLD
		Or Say	=	**151.00**	**KLD**
		L.P.M. for @ 6 hour pumping	=	419.44	LPM
		Say	=	420.00	LPM
		Pump HP = 151 x 45 x 100 / 60 x 75 x 70	=	6.00	H.P.
		Or Say	=	**6.00**	**H.P.**
		It is proposed to provide 2 nos. of motors 6 HP sets of 420 LPM discharge at 45 m head (One pump working &one pump stand by & generator set of same capacity in case of electric failure.			
(V)		**Irrigation Pumping**			
		Water Demand of Horticulture + Road Area	=	27000	LPD
		8 Hours Pumping	=	56.25	LPM
		Say	=	60	LPM
		Head	=	35	Mtr.
		Pump HP = 60 x 35 x 100 / 60 x 75 x 70	=	0.67	H.P.
		Or Say	=	**1.00**	**H.P.**
		It is proposed to provide 2 Nos. of motors of 1.0 HP sets of 60 LPM discharge at 35 M head (One pump are working and one as standby & generator set of same capacity in case of electric failure.)			

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COMMERCIAL & OFFICE BUILDING

(VI) PUMPS FOR FIRE PROTECTION

S. No.	Parameters	Location	Pump sets			
			Water curtain	Jockey	Main	Diesel
1	Discharge in lpm	Pump Room	2280 lpm	180 lpm	2850 lpm	2850 lpm
2	Head in metre		55	80/115	80/115	80/115
3	HP		47	8	122	122
4	Quantity in nos.		1	2	2	1

(VII) GENERATING SETS

S. No	Equipment	QTY		HP	Total HP	
1	Boosting Station	1		~~10~~	~~7.0~~ 10.0	
2	For Jockey Pump	2		8	16.0	
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1		~~5+6+1~~ 15+12.50	~~12.00~~ 27.50	
	Total				~~35.0~~ 53.50	
					~~26.11~~	KW 101.9
	Disversity 0.8 & Power factor 0.8		63.50 x 0.746 x 1.50		~~40.80~~	KVA 63.50
	Or Say			71.05	~~45.00~~	KVA
					75.0	
	It is proposed to add ~~45~~ 75 KVA capacity for above said machinery to the main DG set.					

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FINAL ABSTRACT OF COST

Sub Work	Description	Amount (Rs.) in Lacs
I	Water Supply Scheme	277.31 ~~517.10~~
II	Sewerage Scheme	66.05 ~~38.17~~
III	Storm Water Drainage	48.23 ~~19.20~~
IV	Road	93.70 ~~31.82~~
V	Street Lighting	9.08 ~~6.36~~
VI	Horticulture	2.87 ~~0.59~~
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after Ist 5 year & IInd 5 years of mtc	86.06 ~~25.48~~
	Total (in Lacs)	~~637.93~~
	Cost of Per Acre (in Lacs)	583.30 ~~269.31~~

Rs. 583.30 lacs / 2.36875 Acre = @ 246.25 lacs Per Acre

Executive Engineer
HSVP Division No. V
Gurugram

Checked subject to Comments
In forwarding letter No. 194631
Dt. 30/06/2022 and notes
Attached with the estimate

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

Director
Town & Country Planning
Haryana, Chandigarh

Superintending Engineer,
HSVP, Circle-I, Gurugram

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

C.E.I-No. 194631
Dated: 30/06/2026
Annexure-A

SUB:- **Approval of revised service plan estimate for Commercial Colony for an area measuring 2.36875 acres (Licence No. 48 of 2022 dated 18.04.2022) in Sector-89, Gurugram Manesar Urban Complex being developed by Receptive Buildwell LLP.**

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.

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RECEPTIVE BUILDWELL LLP.

(AUTHORIZED SIGNATORY)

Sub Work No.I — Water Supply

Sub Head	Description	Amount (Rs.). In lacs
1	Head Works	~~98.88~~ 74.43
2	Pumping Machinery	~~267.04~~ 27.23
3	Rising Main	~~9.82~~ 11.65
4	Distribution System (Dom + Flushing)	~~12.14~~ 17.92
5	Fire Fighting	~~118.46~~ 132.20
6	Irrigation	~~10.75~~ 13.84
	Say (In Lacs)	~~517.10~~ 277.31 Lac

C.o.t to final abstract of cost

For RECEPTIVE BUILDWELL LLP

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Sub Work No-1						**Water Supply**		
Sub Head No-01						**Head Works**		
Sl No	**DESCRIPTION**		**Qty**		**Rate**		**AMOUNT (In Lacs.)**	
1	Boring and installing 200 mm i/d tubewell with reverse rotary rig complete with pipe and strainer to depth of about 150 m in all respect 2 Nos. @ Rs. 1000000/- each		~~2~~.00		1000000	Rs.	~~20.00~~ 15.0	
2	Providing Boosting arrangement with chamber by pumps (5.00 HP) at 48 M head, 2 Nos. @ Rs. 50,000/- each		~~2~~ (1+1)		~~50000~~ 2.0	Rs.	~~1.00~~ 2.0	
3	Providing Boosting arrangement by pumps ~~6~~ HP, capacity 420 LPM at 25 M head, 2 Nos. each & @ Rs. 150,000/- each (For Domestic) complete with panel, foundation etc.	15.0 HP	(1+1) 2	x	~~150000~~ 3.0	Rs.	~~3.00~~ 6.0	
4	Provision for carriage of materials and other unforseen items (LS)				50000	Rs.	0.50	
5	Construction of U.G. tanks of total cap. ~~720~~ KL @ ~~Rs. 5500~~KL (60KL + 350KL + 45KL) (Dom + Fire + Flushing)		~~720~~ 455	x	5500	Rs.	~~39.93~~ 25.03	
	TOTAL					Rs.	~~64.43~~ 48.53	
	Add 3% contingencies					Rs.	~~1.93~~ 1.45	
	TOTAL					Rs.	~~66.36~~ 49.98	
	Add 49% Department charges, Price Esclation & other unforseen Charges.					Rs.	~~32.52~~ 24.49	
	TOTAL COST					Rs.	98.88	74.47

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Sub Work No-1						**Water Supply**		
Sub Work No-02						**Pumping Machinery**		
Sl No	**DESCRIPTION**		**Qty**		**Rate**		**AMOUNT (In Lacs.)**	
1	Provision for diesel engine genset each for standby arrangements for T.W. of booster pump complete with gear head arrangement. - ~~(2 x 910 kVA & 1 x 750 kVA) KVA @ 9600000+7500000~~ /-. 75	KVA	75KVA	x	~~17100000~~ 1500000	Rs.	~~171.00~~ 11.25	
2	Providing for disinfection plant complete. 1 No. @ 50,000/-		1	(LS)	50000	Rs.	~~0.50~~ 1.00	
3	Provision for making foundations and erection of Pumping machinery @ Rs. ~~50000/-~~		1	x	~~50000~~ (LS)	Rs.	~~0.50~~ 1.00	
4	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.) for Rs. ~~50000/-~~		1	x	~~50000~~ (LS)	Rs.	0.50	
5	Provision for electric services connection including electric fitting for tube wells & boosting chamber etc. 1 set (L.S.) Rs. ~~100000/-~~		1	x	~~100000~~ (LS)	Rs.	~~1.00~~ 2.50	
6	Provision for carriage of material and unforeseen item. L.S. for Building Rs. ~~50000/-~~		1	x	~~50000~~ (LS)	Rs.	0.50	
	TOTAL					**Rs.**	~~474.00~~	17.75
	Add 3% contingencies					**Rs.**	~~5.22~~	0.53
	TOTAL					**Rs.**	~~479.22~~	18.28
	Add 49% Department charges, Price Esclation & other unforseen Charges.					**Rs.**	~~87.82~~	8.95
	TOTAL COST					**Rs.**	~~267.04~~	27.23

For RECEPTIVE BUILDWELL LLP

Authorised Signatory

GIAN P. MATHUR
ARCHITECT
B. Arch.., M.C.A. I.I.A
CA No. 80/5769

V CONSULTING
B-50, Soami Nagar, New Delhi-110017

PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 2.36875 ACRES (LICENECE NO.48 DATED 18.04.2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY RECEPTIVE BUILDWELL LLP.

Sub Work No-1						Water Supply	
Sub Work No-03						Rising Main from HSVP	
Sl No	DESCRIPTION		Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing & testing 100 mm dia. G.I. pipe lines including cost of excavation complete in all respects.		200	@	~~1400~~ 1475	Rs.	~~2.80~~ 2.95
2	Providing and fixing 100 mm dia. sluice valves including cost of surface boxes and masonary chambers etc., complete in all respects.		1	@	~~75000~~ 12000	Rs.	~~0.75~~ 0.12
3	Providing and Fixing indicating plates for sluice valves, Air valves & fire hydrant.		1	@	~~10000~~ 2.000	Rs.	~~0.10~~ 0.02
4	Provision for carriage of material & other foreseen items etc., L.S.		1	@	50000	Rs.	0.50
5	Provision for making connection with HUDA main (L.S.) 1 job1 complete in all respect		1	@	175000 (1.75)	Rs.	~~1.75~~ 2.5
6	Provision for cutting road and making good the same (L.S.) 1 job		1	@	~~50000~~	Rs.	~~0.50~~ 2.0
	TOTAL					Rs.	~~6.40~~ 7.59 Lacs
	Add 3% contingencies					Rs.	~~0.19~~ 0.23 Lacs
	TOTAL					Rs.	~~6.59~~ 7.82 Lacs
	Add 49% Department charges, Price Esclation & other unforseen Charges.					Rs.	~~3.23~~ 3.83 Lacs
	TOTAL COST					Rs.	~~9.82~~ 11.65 Lacs

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Material Statement and design statement of HUDA Rising Mains

S. No.	Name of line	Dia. in mm	Length in m from municipal to U.G.T.
1	Municiple Supply To UGT.	100	100
2	Tanker Water Supply	100	100
	TOTAL	200	200

Sub Work No-1 — **Water Supply**

Sub Head No-04 — **Distribution system** (Dom + Flushing)

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing & testing GI pipes including cost of excavation complete as per ISI marked. (Dom + Flushing)			1475/ ~~975~~		10.66
1.1	100 mm I/D (341 + 382)	723	@		Rs.	~~7.05~~
2	Providing and Fixing sluice valves including cost of brick masonry chamber complete in all respect.					
2.1	80 mm I/D	0	@	6000	Rs.	0.00
2.2	100 mm I/D	2	@	8000	Rs.	0.24 ~~0.16~~
2.3	150 mm I/D	0	@	10000	Rs.	0.00
3	Providing and Fixing air valves and scour valves including cost of brick masonry chamber complete.	2	@	~~10000~~ 14000/	Rs.	~~0.20~~ 0.28
4	Provision for carriage of material & other foreseen items etc., (L.S). 1 Job including cutting of raod and making the same.	1	@	50000	Rs.	0.50
	TOTAL				**Rs.**	11.68 ~~7.91~~
	Add 3% contingencies				**Rs.**	0.35 ~~0.24~~
	TOTAL				**Rs.**	12.03 ~~8.15~~
	Add 49% Department charges, Price Esclation & other unforseen Charges.				**Rs.**	5.89 ~~3.99~~
	TOTAL COST				**Rs.**	~~12.14~~ 17.92 lacs

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S. No.	Description	300 mm	200 mm	150 mm	100 mm	80 mm	40mm	65 mm	50 mm
(A)	Domestic								
1	UGT 1 - W1	-	-		24	-	-	-	-
2	W1-W2	-	-		67	-	-	-	-
3	W2-W3				48				
4	W3-W4				30				
5	W4-W3A				8				
6	W3A-W2A				17				
7	W2A-W1A				43				
8	W1A-W3A				45				
10	W5-W6				59				
	TOTAL				341				
(B)	Flushing								
1	STP1-F1	-	-		8		-	-	-
2	F1-F2	-	-		85		-	-	-
3	F2-F3				36				
4	F3-F4				84				
5	F4-F5				50				
6	F5-F6				31				
11	F2A-F1A				44				
12	F1A-F3A				44				
	TOTAL				382				
	GRAND TOTAL	0	0	0	723	0	0	0	0

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DOMESTIC WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self				Additional				AV/WD	Domestic Water demand @ commercial 60% KLD	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity mt/sec	Lose of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start			Remarks
			Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Offices @ 45 LPCD	Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Offices @ 45 LPCD	KLD							HL (Mts)	GL (Mts)	TH (Mts)	
1	UGT 1 - W1	24					Staff =455 person =20475 litre	1211 persons = 84770 litre	3648 persons = 54720 litres	140 persons = 6300 litres	374.00	224.40	673.20	100	-	-	-	355.00	300.00	55.00	Ground Level= +300 U.G.T. Bed Level=290 Add Building Head 2B+LG+UG + 12=61.8 mtrs Add Suction Head=3.0 mtrs Delivery Head=5.0 Positive Head=3.0 mtrs Friction Lose=4.0 mtrs Head Level=355
2	W1-W2	67	Staff = 55 person =2475 litre	145 persons = 10150 litre	445 persons =6675 litres	140 persons = 6300 litres	Staff =400 person =18000litre	1066 persons = 74620 litre	3203persons =48045litres	280 persons = 12600 litres	368.00	220.80	662.40	100	0.75	1.8626	1.2479	353.75	300.00	53.75	
3	W2-W3	48	Staff =40 person =1800 litre	118 persons = 8260 litre	300 persons =4500litres	280 persons = 12600 litres	Staff = 360 person =16200 litre	948 persons =66360 litre	2903 persons = 43545litres	420 persons = 18900 litres	359.00	215.40	646.20	100	0.75	1.7810	0.8549	352.90	300.00	52.90	
4	W3-W4	30	Staff = 30 person =1350 litre	80 persons = 5600 litre	250 persons = 3750 litres	420 persons = 18900 litres	Staff =330 person =14850litre	868persons = 60760 litre	2653 persons = 39795litres	560 persons = 25200 litres	342.00	205.20	615.60	100	0.75	1.6312	0.4894	352.41	300.00	52.41	
5	W4-W3A	8	Staff =10 person =450 litre	30 persons = 2100 litre	100 persons = 1500 litres	560 persons = 25200 litres	Staff =320 person =14400 litre	838 persons = 58660 litre	2553 persons = 38295litres	700 persons = 31500 litres	329.00	0.60	1.80	100	0.75	0.0000	0.0000	352.41	300.00	52.41	
6	W3A-W2A	17	Staff = 20 person =900 litre	65 persons = 4550 litre	200 persons = 3000 litres	700 persons = 31500 litres	Staff =300 person =13500litre	773 persons = 54110 litre	2353 persons = 35295litres	840 persons = 37800 litres	293.00	175.80	527.40	100	0.75	1.2330	0.2096	352.20	300.00	52.20	
7	W2A-W1A	43	Staff = 27 person =1215litre	113 persons = 7910 litre	300 persons =4500litres	840 persons = 37800 litres	Staff = 273 person =12285 litre	660 persons = 46200 litre	2053 persons = 30795 litres	980 persons = 44100 litres	265.00	159.00	477.00	100	0.75	1.0280	0.4421	351.76	300.00	51.76	
8	W1A-W3A	45	Staff =35 pers=1575 litre	100 persons = 7000 litre	273 persons =4095 litres	980 persons = 44100 litres	Staff =238 person =10710litre	560 persons = 39200 litre	1780 persons = 26700 litres	1120 persons = 50400 litres	225.00	135.00	405.00	100	0.75	0.7645	0.3440	351.41	300.00	51.41	
9	W4-W5	79	Staff = 67person =3015 litre	135 persons = 7350 litre	565 persons =8475 litres	1120 persons = 50400 litres	Staff = 171person =7695 litre	425persons = 29750 litre	1215 persons = 18225 litres	1260 persons = 56700 litres	205.00	123.00	369.00	100	0.75	0.6460	0.5103	351.25	300.00	51.25	
10	W5-W6	59	Staff = 50 person =2250 litre	115 persons = 8050 litre	300 persons =4500litres	1260 persons = 56700 litres	Staff = 121person =5445 litre	310 persons = 21700 litre	915persons = 13725 litres	1400 persons =63000 litres	180.00	108.00	324.00	100	0.75	0.5105	0.3012	351.11	300.00	51.11	
11	W6-W7	73	Staff = 62 person =2790 litre	145 persons = 10150 litre	445 persons =6675 litres	1400 persons =63000 litres	Staff = 59 person =2655 litre	165 persons = 11550 litre	470 persons =7050 litres	1540 persons =69300 litres	173.00	103.80	311.40	100	0.75	0.4751	0.3468	350.90	300.00	50.90	
12	W7-W8	39	Staff =37 person =1665 litre	100 persons = 7000 litre	270 persons =4050 litres	1540 persons =69300 litres	Staff = 22 person =990 litre	65 persons = 4550 litre	200 persons = 3000 litres	1680persons =75600 litres	166.00	99.60	298.80	100	0.75	0.4409	0.1719	350.94	300.00	50.94	
13	W8-W1	20	Staff = 22 person =990 litre	65 persons = 4550 litre	200 persons = 3000 litres	1680persons =75600 litres	-	-	-		145.00	87.00	261.00	100	0.75	0.3452	0.0690	350.83	300.00	50.83	

NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.

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Authorised Signatory

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FLUSHING WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self				Additional				AV/WD	Flushing Water demand @ 40% commercial K.L.D.	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity mt/sec	Lose of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start			Remarks
			Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Offices @ 45 LPCD	Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Offices @ 45 LPCD	KLD							HL (Mts)	GL (Mts)	TH (Mts)	
1	STP1-F1	8					Staff =455 person =20475 litre	1211 persons = 84770 litre	3648 persons = 54720 litres	140 persons = 6300 litres	374.00	149.600	448.80	100	0.75	0.9207	0.0737	355.00	300.00	55.00	Ground Level= +300 U.G.T. Bed Level=290 Add Building Head 2B+LG+UG + 12=61.8 mtrs Add Suction Head=3.0 mtrs Delivery Head=5.0 Positive Head=3.0 mtrs Friction Lose=4.0
2	F1-F2	85	Staff = 55 person =2475 litre	145 persons = 10150 litre	445 persons =6675 litres	140 persons = 6300 litres	Staff =400 person =18000litre	1066 persons = 74620 litre	3203persons =48045litres	280 persons = 12600 litres	368.00	147.200	441.60	100	0.75	0.8941	0.7600	354.24	300.00	54.24	
3	F2-F3	36	Staff =40 person =1800 litre	118 persons = 8260 litre	300 persons =4500litres	280 persons = 12600 litres	Staff = 360 person =16200 litre	948 persons =66360 litre	2903 persons = 43545litres	420 persons = 18900 litres	359.00	143.600	430.80	100	0.75	0.8549	0.3078	353.93	300.00	53.93	
4	F3-F4	84	Staff = 30 person =1350 litre	80 persons = 5600 litre	250 persons = 3750 litres	420 persons = 18900 litres	Staff =330 person =14850litre	868persons = 60760 litre	2653persons = 39795litres	560 persons = 25200 litres	342.00	136.800	410.40	100	0.75	0.7831	0.6578	353.27	300.00	53.27	
5	F4-F5	50	Staff =10 person =450 litre	30 persons = 2100 litre	100 persons = 1500 litres	560 persons = 25200 litres	Staff =320 person =14400 litre	838 persons = 58660 litre	2553persons = 38295litres	700 persons = 31500 litres	329.00	131.600	394.80	100	0.75	0.7300	0.3650	352.91	300.00	52.91	
6	F5-F6	31	Staff = 20 person =900 litre	65 persons = 4550 litre	200 persons = 3000 litres	700 persons = 31500 litres	Staff =300 person =13500litre	773 persons = 54110 litre	2353 persons = 35295litres	840 persons = 37800 litres	293.00	117.200	351.60	100	0.75	0.5919	0.1835	352.73	300.00	52.73	
7	F6-F7	78	Staff = 27 person =1215litre	113 persons = 7910 litre	300 persons =4500litres	840 persons = 37800 litres	Staff = 273 person =12285 litre	660 persons = 46200 litre	2053 persons = 30795 litres	980 persons = 44100 litres	265.00	106.000	318.00	100	0.75	0.4935	0.3849	352.52	300.00	52.52	
8	F7-F1	55	Staff =35 pers=1575 litre	100 persons = 7000 litre	273 persons =4095 litres	980 persons = 44100 litres	Staff =238 person =10710litre	560 persons = 39200 litre	1780 persons = 26700 litres	1120 persons = 50400 litres	225.00	90.000	270.00	100	0.75	0.3670	0.2018	353.07	300.00	53.07	
9	F6-F3A	8	Staff = 67person =3015 litre	135 persons = 7350 litre	565 persons =8475 litres	1120 persons = 50400 litres	Staff = 171person =7695 litre	425persons = 29750 litre	1215 persons = 18225 litres	1260 persons = 56700 litres	205.00	82.000	246.00	100	0.75	0.3101	0.0248	352.88	300.00	52.88	
10	F3A-F2A	18	Staff = 50 person =2250 litre	115 persons = 8050 litre	300 persons =4500litres	1260 persons = 56700 litres	Staff = 121person =5445 litre	310 persons = 21700 litre	915persons = 13725 litres	1400 persons =63000 litres	180.00	72.000	216.00	100	0.75	0.2450	0.0441	352.87	300.00	52.87	
11	F2A-F1A	44	Staff = 62 person =2790 litre	145 persons = 10150 litre	445 persons =6675 litres	1400 persons =63000 litres	Staff = 59 person =2655 litre	165 persons = 11550 litre	470 persons =7050 litres	1540 persons =69300 litres	173.00	69.200	207.60	100	0.75	0.2281	0.1004	352.63	300.00	52.63	
12	F1A-F3A	44	Staff =37 person =1665 litre	100 persons = 7000 litre	270 persons =4050 litres	1540 persons =69300 litres	Staff = 22 person =990 litre	65 persons = 4550 litre	200 persons = 3000 litres	1680persons =75600 litres	166.00	66.400	199.20	100	0.75	0.2116	0.0931	352.53	300.00	52.53	

NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.

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Sub Work No-1					**Water Supply**	
Sub Work No-05					**Fire fighting**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Providing, laying jointing & testing M.S. pipe lines for rising main including cost of fitting, valves, connection etc., complete in all respects.					14.25
	150 mm I/D for Ring Main	570	@	2500 1150.00	Rs.	~~6.56~~
	100 mm I/D for Tanker Inlet	9	@	2151 ~~950.00~~	Rs.	~~0.09~~
	80 mm I/D for Yard Hydarnt pipe	31	@	1800 ~~900.00~~	Rs.	~~0.28~~ 0.56
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects.					
	- 150 mm dia.	1	@	14000.00		~~0.14~~
	- 100 mm dia.	1	@	10000.00		~~0.10~~ 0.12
	- 80 mm dia.	11	@	8000.00		~~0.88~~ 1.10
3	Providing and fixing fire Hydrant with accessories.	11	@	10000.00	Rs.	~~1.10~~ 1.65
4	Providing Fire Diesel pumps of 122 HP, capacity 2850 LPM at 80/115 M head, 1 Nos. each & @ Rs. 18,50,000/- each complete with panel, foundation etc.	1	@	1850000.00		18.50
5	Providing Fire Main pumps of 122 HP, capacity 22850 LPM at 80/115 M head, 2 Nos. each & @ Rs. 15,00,000/- each complete with panel, foundation etc.	2	@	1500000.00		30.00
6	Providing Fire Jockey pumps of 8 HP, capacity 180 LPM at 80/115 M head, 2 Nos. each & @ Rs. 5,00,000/- each complete with panel, foundation etc.	2	@	500000.00		10.00
7	Providing Water curtain pumps of 47 HP, capacity 2280 LPM at 55 M head, 1 Nos. each & @ Rs. 9,00,000/- each complete with panel, foundation etc.	1	@	900000.00		9.00
8	Providing for carriage of material (L.S.) 1 jobs.	1	@	50000.00	Rs.	0.50
9	Providing and fixing Indicating plate.	6	@	2000.00	Rs.	~~0.06~~ 0.12
	TOTAL				**Rs.**	~~77.29~~ 86.14 las
	Add 3% contingencies				**Rs.**	~~2.32~~ 2.58 las
	TOTAL				**Rs.**	~~79.52~~ 88.72 las
	Add 49% Department charges, Price Esclation & other unforseen Charges.				**Rs.**	~~38.96~~ 43.48 las
	TOTAL COST				**Rs.**	~~118.48~~ 132.20 las

Material Statement of Fire ring – MS – 150mm dia (FOR COMMERCIAL & OFFICE BUILDING)

S. No.	Location	200 mm dia pipe	150 mm dia pipe	100 mm dia pipe	80 mm dia pipe	Fire Hydrant
1	UGT to Fire Ring	-	10	-	-	-
2	Fire Ring Pipe	-		-	-	-
3	Tanker inlet connection	-		9	-	-
4	Fire Brigade 4 way	-	10	-	-	-
5	Fire Brigade 2 way	-	10	-	-	-
6	Yard Hydrants = 11 Nos. x 2 Meters +15 Mtr Extra	-	540		31	11
	Total	0	570	9	31	11

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	Fire Hydrant System					
1	Valves 150mm dia			1	Nos.	
2	Valves 100mm dia			1	No.	
3	Valves 80mm dia			11	Nos.	
4	Fire Hydrants			11	Nos.	
5	Fire Brigade Connections 4 Way			1	No.	
6	Fire Brigade Connections 2 Way			1	No.	

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Sub Work No-1 (FOR COMMERCIAL & OFFICE BUILDING) — **Water Supply**

Sub Work No-06 — **Irrigation**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing and testing uPVC pipe line confirming to I.S 4985 including cost of excavation etc., complete in all respects.					
	20 mm O/D for Garden Hydrants	27	@	250	Rs.	0.07
	75 mm O/D UPVC Pipe for Ring Main	0	@	550	Rs.	0.00
	90 mm O/D from STP to Ring Main	560	@	1250 ~~750~~	Rs.	~~4.20~~ 7.00
2	Providing and fixing Irrigation hydrant valve complete in all respect.	18	@	5000 ~~4500~~	Rs.	~~0.81~~ 0.90
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 20 mm	18	@	250	Rs.	0.05
5	Providing & fixing sluice valvle compelte with chamber.					
	- 100 mm dia.	1	@	6000	Rs.	0.06
6	Providing and fixing Irrigation pump 2 nos., 1.0 HP, 60 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	~~65000~~ 0.20	Rs.	~~1.30~~ 0.40
	TOTAL				Rs.	~~7.00~~ 9.02
	Add 3% contingencies				Rs.	~~0.21~~ 0.27
	TOTAL				Rs.	~~7.21~~ 9.29
	Add 49% Department charges, Price Esclation & other unforseen Charges.				Rs.	~~3.53~~ 4.55
	TOTAL COST				Rs.	~~10.75~~ 13.84

Material statement of Irrigation System (FOR COMMERCIAL & OFFICE BUILDING)

S. No.	Line Name	90 mm	75 mm OD	50 mm OD	20 mm OD	Irrigation Hydrants
1	Pump Room to Ring main	15				
2	Irrigation Ring	545				
3	GARDEN HYDRANT				27	18
	Total	560	0	0	27	18

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PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 2.36875 ACRES (LICENECE NO.48 DATED 18.04.2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY RECEPTIVE BUILDWELL LLP.

Sub Work No-II					Sewerage Scheme	
Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, jointing, cutting and testing S.W.R. PVC pipe including all bends fitting, clamps etc. Complete in all respect running in basement ceiling.			1700		4.28
	200mm dia	252	@	~~1200.00~~	Rs.	~~3.02~~
	150mm dia	0	@	700.00	Rs.	0.00
	100mm dia	0	@	500.00	Rs.	0.00
2	Provision for lighting and watching L.S.	1	@	50000.00	Rs.	0.50
3	Provision for timbering and shuttering L.S.	1	@	50000.00	Rs.	0.50
4	Provision of 150 mm dia line form STP to HSVP main by pumping.	145	@	~~1000.00~~ 2040	Rs.	~~1.45~~ 2.96
5	Providing Boosting arrangement by pumps ~~4~~ 12.50 HP, capacity ~~420~~ 250 LPM at ~~45~~ 35 M head, 2 Nos. each & @ Rs. ~~100,000~~/- each (For Flushing) complete with panel, foundation etc.	2 (1+1)	@	~~100000.00~~ 2.50 lac 160001	Rs.	~~2.00~~ 5.2 lac
6	Provision for making STP (KLD)	155	@	~~10000.00~~	Rs.	~~15.50~~ 24.80
7	Provision for carriage of maternal (L.S.)	1	@	~~40000.00~~	Rs.	~~0.40~~ 1.00
8	Provision of cutting road & making it good as same in original condition - 1 job	1	@	~~50000.00~~	Rs.	~~0.50~~ 2.00
9	Providing Sewage with HSVP Connectivity	1	@	~~100000.00~~	Rs.	~~1~~ 00
	TOTAL				Rs.	~~24.87~~ 43.64 lacs
	Add 3% contingencies				Rs.	~~0.75~~ 1.29 lacs
	TOTAL				Rs.	~~25.62~~ 44.33 lacs
	Add 49% Department charges, price esclation, other for unforseen charges.				Rs.	~~12.55~~ 21.72 lacs
	TOTAL COST				Rs.	~~38.17~~ 66.05 lacs

For RECEPTIVE BUILDWELL LLP

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(Hydraulic Design Sewerage Scheme)

Sl. No.	Name of Line	Length in Meter	Self				Additional				Average Daily Water Demand	Average Discharge 80% of Domestic + 90% of flushing	Sub Soil Infiltration @ 10% Of AV/ W.D	Peak Discharge @ 3 Times of AV Discharge including Sub Soil infiltration	Design of Pipe			Gradient	Drop	Level at Start		Level at End	
			Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Offices Visitor @ 45 LPCD	Shopkeepers Staff @ 45 LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Offices Visitor @ 45 LPCD					Size of pipe (dia)	Capacity in cusec	Velocity			G.L	I.L		
		Metre	LPD	LPD	LPD	LPD	LPD	LPD	LPD	LPD	KLD	KLD	LPD	Cusecs	mm	m	ft/sec		Mtr.	Mtr.	Mtr.	G.L (Mtr)	I.L (Mtr)
1	S1 - S2	23	Staff = 55 person =2475 litre	155 persons = 10850 litre	535 persons = 8025 litres	168 persons = 6300 litres	-	-	-		65.00	61.750	6.50	0.079	200.000	0.458	0.750	1:190	0.12	300.00	298.70	1.05	298.58
2	S2-S3	33	Staff =60 person =2700 litre	148 persons = 10360litre	496 persons = 7440litres	168 persons = 6300 litres	Staff = 115 person =5175 litre	303 persons = 21210 litre	1031 persons =15465 litres	336 persons = 15120 litres	120.00	114.000	12.00	0.146	200.000	0.458	0.750	1:190	0.17	300.00	298.58	1.05	298.41
3	S3-S4	57	Staff = 115 person =5175 litre	303 persons = 21210 litre	1031 persons =15465 litres	168 persons = 6300 litres	Staff = 115 person =5175litre	303 persons =21210 litre	1031persons = 15465litres	336 persons = 15120 litres	145.00	137.750	14.50	0.176	200.000	0.458	0.750	1:190	0.30	300.00	298.41	1.05	298.11
4	S4-S5	9	Staff =51 peRson =2295 litre	101persons = 7070 litre	238 persons = 3570 litres	168 persons = 6300 litres	Staff =175 person =7875 litre	555persons 38850= litre	1564 persons 23460= litres	336 persons = 15120 litres	189.00	179.550	18.90	0.229	200.000	0.458	0.750	1:190	0.05	300.00	298.11	1.05	298.06
5	S6A-S6	9	Staff =50 person =2250 litre	100 persons = 7000 litre	248 persons = 3720litres	168 persons = 6300 litres	-	-	-	336 persons = 15120 litres	235.00	223.250	23.50	0.285	200.000	0.458	0.750	1:190	0.05	300.00	298.06	1.05	298.01
6	S6-S7	8	Staff = 49 person =2205litre	101 persons = 7070 litre	247 persons = 3705litres	168 persons = 6300 litres	Staff =50 person =2250 litre	100 persons = 7000 litre	248 persons = 3720litres	336 persons = 15120 litres	255.00	242.250	25.50	0.310	200.000	0.458	0.750	1:190	0.04	300.00	298.01	1.05	297.97
7	S7-S8	60	Staff =70 person =3150 litre	251 persons = 17570 litre	586 persons =8790 litres	168 persons = 6300 litres	Staff = 99 person =4455 litre	201 persons =14070litre	495 persons = 7425 litres	336 persons = 15120 litres	301.00	285.950	30.10	0.365	200.000	0.458	0.750	1:190	0.32	300.00	297.97	1.05	297.65
8	S8-S5	39	Staff =60 person =2700 litre	103 persons = 7210 litre	545 persons =8175litres	168 persons = 6300 litres	Staff =169 person =7605 litre	452 persons = 31640 litre	1081 persons =16215 litres	336 persons = 15120 litres	316.00	300.200	31.60	0.384	200.000	0.458	0.750	1:190	0.21	300.00	297.65	1.05	297.45
9	S5-STP	3	Staff =455 person =20475 litre	1211 persons = 84770 litre	3648 persons = 54720 litres	168 persons = 6300 litres				336 persons = 15120 litres	332.00	315.400	33.20	0.403	200.000	0.458	0.750	1:190	0.02	300.00	297.45	1.05	297.43

Note:- 1. The Man hole shall be constructed as per HUDA/ N.B.C Norms
2. LEVEL HAVE BEEN TAKEN WITH REFERNCE TO ROAD LEVEL=1050MM

For RECEPTIVE BUILDWELL LLP

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Material statement of Sewerage System – As per drawing sheet								
S. No.	Name of Pipe Line	Length of Pipe in MM						
		500 mm	450 mm	400 mm	350 mm	100 mm	150 mm	200 mm
1	S1 - S2	-	-	-	-			24
2	S2-S3	-	-	-	-			37
3	S3-S4							63
4	S4-S5							9
5	S6A-S6							9
6	S6-S7							8
7	S7-S8							60
8	S8-S5							39
9	**S5-STP**							3
	TOTAL							252

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Sub Work No-III — **Storm water drain**

S. No.	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, lowering, laying and jointing R.C.C NP-3 pipes and specials into trenches including manholes, chambers etc., excavation, back filling and disposal of surplus earth complete in			2500		7.43
	400 mm I/D Avg. depth upto 2.0 M.	297	@	~~1350~~	Rs.	~~4.01~~
	300 mm I/D Avg. depth upto 2.0 M.	0	@	1100	Rs.	0.00
	250 mm I/D Avg. depth upto 2.0 M.	0				
2	Provision for Road Gullies L.S.	LS			Rs.	~~0.50~~ 1.00
3	Provision for lighting and watching	LS			Rs.	0.50
4	Provision for timbering and shoring L.S.	LS			Rs.	~~0.50~~ 1.00
5	Provision for carriage of material & other foreseen items etc., L.S.	LS			Rs.	2 0.50
6	Provision for Rain water harvesting arrangements for 2.36875 Acres @ 1.50 Lac / Acres.	4.0000	@	350000	Rs.	~~6.00~~ 14.0
7	Provision for temporary connection with HUDA				Rs.	~~0.50~~ 2.00
8	TOTAL Prov. for temporary disposal arrangement till HSVP services are provided (L.S.)				Rs.	~~12.51~~ 31.43
	Add 3% contingencies				Rs.	~~0.38~~ 0.94
	TOTAL				Rs.	~~12.88~~ 32.37
	Add 49% Department charges, price esclation, other for unforseen charges.				Rs.	~~6.31~~ 15.86
	TOTAL				Rs.	~~19.20~~ 48.23

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STORM WATER DRAIN

S. No	Name of Drain	250mm dia RCC pipe	300mm dia pipe	400mm dia RCC pipe
	Rain Water Harvesting			
1	D1-D2			41
2	D2-D3			61
3	D3 -R.PIT1			18
4	R.PIT 1 - D4			29
5	D4 - D5			50
6	D6- D7			18
7	D7- D5			38
8	D -R.PIT 2			5
9	D1A-R.PIT-3			32
10	D2-R.PIT-4			5
	TOTAL	0	0	297

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Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times m^{2/3} \times s^{1/2}$ in F.P.S System

Sl. No.	Name of Line	Length in Meter	Catchment Area in sqmt		Total Area (Sqmt)	Discharge in Cusec (1 Acre = 1 Cusec)	Proposed dia of pipe (mm)	Velocity (mt/sec)	Design Capacity of Drain (Cusecs)	Gradient	Drop (Mtr.)	Level at Start			Level at End		
			Self	Additional								G.L (Mtr.)	I.L (Mtr.)	Depth (Mtr.)	G.L (Mtr.)	I.L (Mtr.)	Depth (Mtr.)
RAIN WATER HARVESTING																	
1	D1-D2	41	1658	0	1658	0.410	400	0.753	1.680	1:500	0.08	300.00	298.70	1.30	0.15	298.62	-298.47
2	D2-D3	61	1381	1658	3039	0.751	400	0.753	1.680	1:500	0.12	300.00	298.62	1.38	0.15	298.50	-298.35
3	D3 -R.PIT1	18	242	3039	3281	0.811	400	0.753	1.680	1:500	0.04	300.00	298.50	1.50	0.15	298.46	-298.31
4	R.PIT 1 - D4	29	1450	3281	4731	1.169	400	0.753	1.680	1:500	0.06	300.00	298.70	1.30	0.15	298.64	-298.49
5	D4 - D5	50	2080	4731	6811	1.683	400	0.753	1.680	1:500	0.10	300.00	298.64	1.36	0.15	298.54	-298.39
6	D6- D7	18	1487	6811	8298	2.050	400	0.753	1.680	1:500	0.04	300.00	298.54	1.46	0.15	298.51	-298.36
7	D7- D5	38	787	8298	9085	2.245	400	0.753	1.680	1:500	0.08	300.00	298.51	1.49	0.15	298.43	-298.28
8	D -R.PIT 2	5	45	9085	9130	2.256	400	0.753	1.680	1:500	0.01	300.00	298.43	1.57	0.15	298.42	-298.27
9	D1A-R.PIT-3	32	506	9130	9636	2.381	400	0.753	1.680	1:500	0.06	300.00	298.42	1.58	0.15	298.36	-298.21
10	D2-R.PIT-4	5	25	9636	9661	2.387	400	0.753	1.680	1:500	0.01	300.00	298.36	1.64	0.15	298.35	-298.20

NOTE:- 1. STORM WATER LINE SHALL BE LAID AS PER NBC/HUDA NORMS.
2. LEVEL HAVE BEEN TAKEN WITH REFERNCE TO ROAD LEVEL=1050M

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SUB WORK NO. - IV					Road Work	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs)**
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acres)			1.75 lac		4.15
	Area = 2.36875 Acre	2.369	@	~~100000~~	Rs.	~~2.37~~
2	Provision for Granular sub base 100mm, 150 mm thick stone aggragate, 50 mm thick B.M., 20 mm thick ~~pre mix carpet with seal coat~~ BC	2215 2500	@	~~500~~ 1750	Rs.	43.75 ~~11.08~~
3	~~Provison of Paved path of C.C. 1~~:2:4	~~380~~	@	~~300~~	~~Rs.~~	~~1.14~~
4	Provision for Kerbs & channels of CC 1:2:4	380	@	~~350~~ 700	Rs.	~~1.33~~ 2.66
5	Provision for making approach to each block for C.C. pavements L.S.		@	50000	Rs.	~~0.50~~ 2.50
6	Provision of guide maps at selected place (L.S.)		@	50000	Rs.	~~0.50~~ 1.0
7	Provision for Traffic Lights arrangement - L.S.		@	~~30000~~	Rs.	~~0.30~~ 2.4
8	Provision for Demarcating Durgies - L.S.		@	50000	Rs.	0.50
9	Provision for Plot indicator - L.S.		@	50000	Rs.	0.50
10	Provision for Parking Arrangment, L.S.		@	150000	Rs.	1.50
11	Provision of carriage of material and unforseen items - L.S.		@	~~50000~~	Rs.	0.50
	TOTAL				**Rs.**	~~20.21~~ 61.60
	Add 3% contingencies				**Rs.**	~~0.61~~ 1.83
	TOTAL				**Rs.**	~~20.82~~ 62.89
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~10.20~~ 30.81
	TOTAL				**Rs.**	~~31.02~~ 93.70 lacs

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Road Work

S. No.	Name of Road	Length of Road (in Mtrs.)	Road Width	Metalled Width (Mtrs.)	Area in Sqm.
	A	B	C	D	B x D
1	Road	360		6	2160.00
	Total	**360**			2160.00
	Add 10 % for curves				216.00
	Total				2,376.00
	Add for surface plaza/ parking				-
	Total	10 Nos x 2.50 x 5.0 m = 125 Sqm			**2,376.00**
	Say				~~2,215.00~~

	Total Length of road	~~360~~ 360	
	Add 10% curves	~~36~~ 36	
	Total Length	~~396~~ 374	
	Say	**380**	**Mtrs.**

	No. of CAR Parking = 0 Nos.	0	Nos.
	Surface Plaza Area =2X5X3	0	Sqmts.
	CC foot paths on both side road		
	CC foot paths on One side = length of road	380	Mtrs.

125.0
2501 Sqm
Say 2500 Sqm

62.50 + 29 + 65 + 103.50 + 38 + 43 = 341 mtr
Add 10% for curves
34 mtr
374 m
Say 380 mtr

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Sub Work No-V					Street Lighting	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs)**
1	Providing street lighting on roads as per standard specifications on HVPN			2.50 lacs		5.92 lacs
	Area = 2.36875 Acre	2.369	@	~~175000~~	Rs.	~~4.15~~
	TOTAL				**Rs.**	~~4.15~~
	Add 3% contingencies				**Rs.**	~~0.12~~ 0.18
	TOTAL				**Rs.**	~~4.27~~ 6.10 lacs
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~2.09~~ 2.98 lacs
	TOTAL				**Rs.**	~~6.36~~ 9.08 lacs

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Sub Work No-V1						Plantation & Road side trees
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs)**
1	Development of Lawn Area :-					
	a) Trenching the ordinary soil upto depth of 60 cm. including removal and packing of serviceable material and disposing at a lead of 50 M. and making up the trenched area to proper level 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 trenched area.					
	c) Grassing with "grass" including watering and maintenance of lawns free from weeds and fit for moving in rows 7.50 cm. in either direction including for hedges and grill and barred wire fencing around park and green belts (As per HSVP norms)					0.71
	Area =0.355 Acres	0.355	@	100000	Rs.	~~0.36~~
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	380				
	Trees @ 12 M. c/c	32				
	Say (1x 50) = 50 Or Say	50				
	Cost of One Tree :-					
	Excavation (Rs.) ~~30/-~~ 60.0					
	Manure (Rs.) ~~40/-~~ 100.0					
	Tree Plants (Rs.) ~~80/-~~ 150.0					
	Tree Guards (Rs.) ~~600/-~~ 2000.0					
	Total Cost (each) 2310			2310		1.16
	Cost of Total trees	50	@	~~64~~	Rs.	~~0.03~~
	TOTAL				**Rs.**	~~0.39~~ 1.87
	Add 3% contingencies				**Rs.**	~~0.01~~ 0.06
	TOTAL				**Rs.**	~~0.40~~ 1.93
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~0.20~~ 0.94
	TOTAL				**Rs.**	~~0.59~~
						2.87 lacs

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SUB WORK NO. VII:				MTC. CHARGES AND RESURFACING OF ROADS.		
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs)**
1	Provision for maintenance charges for water supply, sewerage, storm water, drainage, roads, street light, Hort., etc. complete including operation & establishment charges as per HSVP norms after completion.			8.00		18.95
	Area = 2.36875 Acre	2.36875	@	~~280000~~	Rs.	~~6.63~~
2	Provision for resurfacing of roads after first five years of maintenance i.e.20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	~~2215~~ 2500	@	~~250~~ 660	Rs.	~~5.54~~ 16.50
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	~~2215~~ 2500	@	~~200~~ 825	Rs.	~~4.43~~ 20.63
	TOTAL				**Rs.**	~~16.60~~ 56.08
	Add 3% contingencies				**Rs.**	~~0.50~~ 1.68
	TOTAL				**Rs.**	~~17.10~~ 57.76
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~8.38~~ 28.30
	TOTAL				**Rs.**	~~25.48~~ 86.06 Lac

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