

**EXTERNAL DEVELOPMENT WORKS
DESIGN AND COST ESTIMATES**

FOR

**REVISED BUILDING PLAN OF
COMMERCIAL COLONY MEASURING
10.4375 ACRES (LICENCE NO.56 OF 2013
DATED 10.07.2013) IN SECTOR -88 ,
GURUGRAM MANESAR URBAN COMPLEX
BEING DEVELOPED BY AMB INFRABUILD
PVT. LTD.**

**DEVELOPED BY:
M/S AMB INFRABUILD PVT. LTD.**

**REVISED BUILDING PLAN OF COMMERCIAL COLONY
MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED
10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN
COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT.
LTD.**

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

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. Developed by AMB INFRABUILD PVT. LTD has been developing REVISE BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Temp. Borewells/ HUDA 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 HUDA 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 3195 persons for Commercial Building. The rate of water supply per head / day has been taken as (Staff = 45 liters , Visitor & Auditorium = 15 liters , Restaurant = 70Litre , Food court & kisok = 35liters) as per HUDA 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.



**REVISED BUILDING PLAN OF COMMERCIAL COLONY
MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED
10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN
COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT.
LTD.**

UNDERGROUND STORAGE 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 will not contaminate.

BOOSTING STATION

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

DISTRIBUTION SYSTEM

The distribution system for this development has been designed to supply @ (Staff = 45 liters, Visitor=15Litre, Restaurant = 70Litre , Food court = 35liters) per head per day @ 3 times the average rate of flow on Hazen William formula. Necessary provision for laying CI/DI pipes confirming to relevant IS standard along with valves and special has been made in the project. The minimum terminal head at any point will be more than 55 so that it can be serve the floors construction envisaged in the plan. Minimum pipe dia. for distribution is kept as 100 mm dia.

RISING MAIN

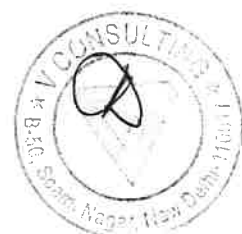
Raising main from HUDA water main or sector road to water work have also been proposed as provision has been made in this estimate.

SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to HUDA 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 provision for laying S.W./R.C.C. pipe sewer line, construction of required number of manholes etc. has been made in the estimate.

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.



**REVISED BUILDING PLAN OF COMMERCIAL COLONY
MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED
10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN
COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT.
LTD.**

STORM WATER DRAINAGE

Since the Master Scheme has been proposed with pipe drain, we proposed to lay pipe drains with required number of catch basins for disposal of storm water. 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 Building Code), fire tanks & required capacity pumps have been provided the plan as shown on the plan. Similarly 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 / HUDA.

ROADS

The roads in the colony have been planned as minimum 6 M wide. The following specification have been adopted which are reproduced below:

The specification of 6M wide roads:

1. GSB-100 mm in one layer.
2. WBM-150 mm in Three layer.
3. BM-50 mm thick.
4. MSS-20 mm thick.

The above construction shall be done on well compacted sub grade as per specifications. Complete work will be carried out as per MORTH specification, IRC guide lines or HUDA specification, which ever applicable.

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.



**REVISED BUILDING PLAN OF COMMERCIAL COLONY
MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED
10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN
COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT.
LTD.**

COST

The total cost of the scheme, including cost of all services works out to Rs 449.78 Lacs Including 3% contingencies and 49% departmental charges, price escalation & other unforeseen charges. Cost of per Acres Rs 43.9 Lacs.

M/S AMB INFRABUILD PVT. LTD.

(AUTHORIZED SIGNATORY)



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES
(LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR
URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.**

(I) DAILY WATER REQUIREMENT			
A)	Commercial		
a)	Shops at Upper basement+Ground floor 3850+15500 = 19350 sqm @ 3 sqmt/ person	=	6450 Persons
b)	Shops at 1st to 2nd Floor (13200+10850 =24050 sqm @ 6 sqmt/ person	=	4008.33 Persons
c)	Total	=	10458.33 Persons
a)	Shopkeepers @ 10% of Population @ 45 LPCD	=	1046 Persons 47070 Liters/ Day
b)	Visitors @ 90% of Population @ 15 LPCD	=	9413 Persons 141195 Liters/ Day
c)	Food Court 4000 sqm (Food Court) total area = 4000 sqm @ 1.8 sqm per person water requirement @ 35 LPCD	= = =	2222 person 77777.78 Liters/ Day
d)	1350+400=1750 sqm (Restaurant) total area = 1750 sqm @ 1.8 sqm per person Visitors @ 90% of Population @ 70 LPCD Restaurant staff @ 10 % of Population @ 45 LPCD	= = = =	1750.00 person 45500.00 Liters/ Day 3240.00 Liters/ Day
e)	650 sqm (Entertainment zone) total area = 650 sqm @ 1.4 sqm per person water @ 15 LPCD	= = =	464.29 person 6964.29 Liters/ Day
f)	Maintenance Staff (Such as Gardener, ESS Staff, Security Guards etc.) @ 45 LPCD	= =	100 Persons 4500 Liters/ Day
g)	Auditorium seats 1960 nos water @ 15 LPCD	= =	1960.00 person 29400.00 Liters/ Day
h)	Back Wash Filters - L.S.	=	20760 Liters/day



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES
(LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR
URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.**

	Service Staff for food court, Restaurant and auditorium	=	450	
	water @ 45 LPCD	=	20250.00	Liters/ Day
	Total water demand	=	396657.06	Liters/day
	SAY	=	400	KLD
C)	<u>Horticulture & Road Work</u>			
a)	Area under Green area 4632.463 sqmt	=	4632.463	SQMM
	@ 5 Ltrs./Sqmt	=	23162	Liters
b)	Area under road + Paved area =13696.728 sqm	=	3.38454	Acres
	@ 25 K.L./Acre	=	84613.51	Liters
	Total Water Demand	=	107776	Liters
	Say	=	107800	Liters
	The demand of horiculture & road work will met from recirculates water after treatment at S.T.P.			
	Total water demand	=	396657	Liters/day
		=	396.657	KLD
	Say	=	400	KLD
	<u>Domestic water demand</u>			
	60% of AV/WD of (A)	=	237994	Liters/day
	Domestic water demand (KLD)	=	237.99	KLD
	Or Say	=	238.00	KLD
	<u>Flushing water demand</u>			
	40% of AV/WD	=	158663	Liters/day
	Flushing water demand (KLD)	=	158.66	KLD
	Or Say	=	159.00	KLD
	<u>Sewage Treatment Plant Capacity</u>			
	Average Sewerage Contribution Considering 80% of AV domestic water demand & 80% of AV/Flushing demand	=	317600	Liter / Day
	Sewage Treatment Plant Capacity (KLD)	=	317.60	KLD
	Or Say	=	317.00	KLD
	Sewage scheme			



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES
(LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR
URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.**

	Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	991000	Liters
		=	220222	GPD
	say	=	0.408	Cusces



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

(I) BOREWELLS		
Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day		
(a) Total domestic water demand = KLD	=	238.00
(b) Number of borewells $35/(18 \times 16)$	=	0.83
Add 10% extra	=	0.08
Total	=	0.91
Say	=	1.00
So, it is proposed to provide Two No. (1W+1S) of tube well (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.		



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES
(LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR
URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.**

(I) Pumping Machinery for Borewell			
Gross working Head	=	18.0	Meters
Average Fall in S.L.	=	5.0	Meters
Depression Head	=	5.0	Meters
Friction loss in main + Postive head	=	<u>10.0</u>	<u>Meters</u>
Total	=	<u>38.0</u>	<u>Meters</u>
Or Say	=	40.0	Meters
Pump HP = $\frac{18000 \times 40 \times 100}{60 \times 60 \times 75 \times 70}$	=	3.81	H.P.
Or Say	=	5.00	H.P.
It is proposed to provide 2 Nos. of 5HP moters 40 Mtr head (1 Working & 1 standby)			
(II) Plumbing Machinery for Domestic & Flushing Tank			
a) Total Domestic Water Demand	=	237994	Liters
Day Storage (Equal to one day)	=	237.99	KLD
Or Say	=	240.0	KLD
Fire Tank provided as per N.B.C. Norms	=	550.00	KLD
Hence it is proposed to construct an underground tank of 1250 KLD having 200 KLD for treated water, 200 KLD as raw water,soft -300kl and 550 KLD for fire fighting purpose as per location shown on plan i.e. Total 1250 K.L.D.			
(III) Boosting Machinery			
a) For Under Ground Tank			
Total water demand (Domestic)	=	238.00	KLD
L.P.M. for 6 hour pumping	=	661.11	LPM
Or Say	=	660.00	LPM
Gross Working Head			
- Suction lift	=	3.00	Meters
- Delivery head	=	5.00	Meters
- Frictional loss in Mains & Specials+ Positive head	=	7.00	Meters
- Clear head required	=	<u>33.0</u>	<u>Meters</u>
Total	=	48.0	Meters
Or Say	=	50.0	Meters
Pump HP = $\frac{660 \times 50 \times 100}{60 \times 75 \times 70}$	=	10.48	H.P.
Or Say	=	11.00	H.P.
It is proposed to provide 2 nos. of motors of 11.0 HP sets of 660 LPM discharge at 50 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.			



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES
(LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR
URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.**

b)	Flushing water supply requirement			
(i)	AV water demand	=	396657	liters/day
(ii)	Flushing water supply demand @40%	=	158663	liters/day
	Flushing water demand (KLD)	=	158.66	KLD
	Or Say	=	160.00	KLD
	L.P.M. for @ 6 hour pumping			
		=	444.44	LPM
	Say	=	450.00	LPM
	Pump HP = $\frac{450 \times 50 \times 100}{60 \times 75 \times 70}$	=	7.14	H.P.
	Or Say	=	7.50	H.P.
	It is proposed to provide 2 nos. of motors 7.5 HP sets of 450 LPM discharge at 50 m head (One pump working & one pump stand by & generator set of same capacity in case of electric failure.)			
(V)	Irrigation Pumping			
a)	Plot Area	=	10.4375	Acres
		=	42239.00	Sqmt
	Water Demand of Horticulture + Road Area	=	107800	LPD
	8 Hours Pumping	=	224.58	LPM
	Say	=	230	LPM
	Head	=	35	Mtr.
	Pump HP = $\frac{230 \times 35 \times 100}{60 \times 75 \times 70}$	=	2.56	H.P.
	Or Say	=	3.00	H.P.
	It is proposed to provide 2 Nos. of motors of 3.0 HP sets of 230 LPM discharge at 35 M head (One pump are working and one as standby & generator set of same capacity in case of electric failure.)			



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

(VI) PUMPS FOR FIRE PROTECTION					
S. No.	Parameters	Location	Pump sets		
			Jockey	Main	Diesel
1	Discharge in lpm	Pump Room	180 lpm	2850 lpm	2850 lpm
2	Head in metre		95	95	95
3	HP		6	100	100
4	Quantity in nos.		2	2	1
(VII) GENERATING SETS					
S. No	Equipment	QTY	HP	Total HP	
1	Borewells	1	5	5.0	
2	For Jockey Pump	2	6	12.7	
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1	11+7.5+3	31.5	
	Total			49.2	
				36.68	KW
	Disversity 0.8 & Power factor 0.8			57.31	KVA
	Or Say			60.00	KVA
It is proposed to add 60 KVA capacity for above said machinery to the main DG set.					



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

FINAL ABSTRACT OF COST

Sub Work	Description	Amount (Rs.) in Lacs
I	Water Supply Scheme	214.46
II	Sewerage Scheme	79.33
III	Storm Water Drainage	42.09
IV	Road	35.86
V	Street Lighting	16.02
VI	Horticulture	2.23
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after Ist 5 year & IInd 5 years of mtc	59.80
	Total (in Lacs)	449.78
	Cost of Per Acre (in Lacs) = 10.4375	43.09

M/S AMB INFRABUILD PVT. LTD.

(AUTHORIZED SIGNATORY)



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.							
Sub Work No.1						Water Supply	
Sub Head	Description					Amount (Rs.). In lacs	
1	Head Works					98.99	
2	Pumping Machinery					16.50	
3	Rising Main					7.52	
4	Distribution System					43.97	
5	Fire Fighting					32.17	
6	Irrigation					15.31	
	Say (In Lacs)					214.46	



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013
DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB
INFRABUILD PVT. LTD.**

Sub Work No-1						Water Supply	
Sub Head No-01						Head Works	
SI 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 80 m in all respect 3 Nos. @ Rs. 300000/- each.	2	300000		Rs.	6.00	
2	Provision for Rising Main connecting Bore well with water main and by-pass arrangement.						
2.1	80 mm dia. G.I. Pipe	40	x 750		Rs.	0.30	
2.2	100 mm dia. G.I. Pipe	0	x 900		Rs.	0.00	
3	Providing Boosting arrangement by pumps (5.00 HP) (capacity 300 lpm at 40 M head, 3 Nos. @ Rs. 50,000/- each (for Tube Well)	2	50000		Rs.	1.00	
4	Providing Boosting arrangement by pumps 11.0 HP, capacity 660 LPM at 50 M head, 2 Nos. each & @ Rs. 3,00,000/- each (For UGT) complete with panel, foundation etc.	2	x 300000		Rs.	6.00	
5	Provision for carriage of materials and other unforeseen items (LS)				Rs.	0.50	
6	Construction of U.G. tanks of total cap. 1250 KL @ Rs. 4000KL	1250	x 4000		Rs.	50.00	
7	Provision for borewell chamber of size 1.5 x 1.5 m For Housing borewell 2 Nos. @ Rs. 35,000/- each	2	x 35000		Rs.	0.70	
TOTAL						Rs. 64.50	
Add 3% contingencies						Rs. 1.94	
TOTAL						Rs. 66.44	
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs. 32.55	
TOTAL COST						Rs. 98.99	
Material Statement of Borewells Rising Mains							
S. No.	Name of line			Length of 80 mm dia. pipe	Length of 100 mm dia. pipe	Length of 150 mm dia. pipe	Length of 200 mm dia. pipe
1	B.W. No. 1 to A			25			
2	A to UGT			15			
	Total			40	0	0	0



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013
DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB
INFRABUILD PVT. LTD.**

Sub Work No-1						Water Supply	
Sub Work No-02						Pumping Machinery	
SI No	DESCRIPTION		Qty		Rate		AMOUNT (In Lacs.)
1	Providing and installing electricity driven Submersible pumping set capable of delivery about 18 KL / Hr. of water against a total Head of 40 M complete with motor and other accessories, 3 No @ 1,00,000/-		2	x	100000	Rs.	2.00
2	Provision for diesel engine genset each for standby arrangements for T.W. of booster pump complete with gear head arrangement. - 1 No.60 KVA @ 500000 /-		1	x	600000	Rs.	6.00
3	Providing for chlorination plant complete. 1 No. @ 50,000/-		1	x	50000	Rs.	0.50
4	Provision for making foundations and erection of Pumping machinery @ Rs. 50000/		1	x	50000	Rs.	0.50
5	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.) for Rs. 50000/		1	x	50000	Rs.	0.50
6	Provision for electric services connection including electric fitting for tube wells & boosting chamber etc. 1 set (L.S.) Rs. 100000/		1	x	75000	Rs.	0.75
7	Provision for carriage of material and unforeseen item. L.S. for Building Rs. 50000/		1	x	50000	Rs.	0.50
TOTAL						Rs.	10.75
Add 3% contingencies						Rs.	0.32
TOTAL						Rs.	11.07
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	5.43
TOTAL COST						Rs.	16.50



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

Sub Work No-1

Water Supply

Sub Work No-03

Rising Main from HUDA

SI No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)
1	Providing, laying, jointing & testing 80 mm dia. G.I. pipe lines including cost of excavation complete in all respects.	130	@ 1000	Rs. 1.30
2	Providing and fixing 80 mm dia. sluice valves including cost of surface boxes and masonry chambers etc., complete in all respects.	1	@ 75000	Rs. 0.75
3	Providing and Fixing indicating plates for sluice valves, Air valves & fire hydrant.	1	@ 10000	Rs. 0.10
4	Provision for carriage of material & other foreseen items etc., I. S	1	@ 50000	Rs. 0.50
5	Provision for making connection with HUDA main (L.S.) 1 job1 complete in all respect	1	@ 175000	Rs. 1.75
6	Provision for cutting road and making good the same (L.S.) 1 job	1	@ 50000	Rs. 0.50
TOTAL				Rs. 4.90
Add 3% contingencies				Rs. 0.15
TOTAL				Rs. 5.05
Add 49% Department charges, Price Escalation & other unforeseen Charges.				Rs. 2.47
TOTAL COST				Rs. 7.52

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	Municipal Main To UGT	80	130



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.							
Sub Work No-1						Water Supply	
Sub Head No-04						Distribution system	
SI No	DESCRIPTION		Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.						
1.1	100 mm I/D		2300	@	1200	Rs.	27.60
1.2	150 mm I/D		0	@	1450	Rs.	0.00
2	Providing and Fixing sluice valves including cost of brick masonry chamber complete in all respect.						
2.1	100 mm I/D		5	@	8000	Rs.	0.40
2.2	150 mm I/D			@	10000	Rs.	0.00
3	Providing and Fixing air valves and scour valves including cost of brick masonry chamber complete.		1	@	10000	Rs.	0.10
4	Providing and Fixing indicating plates for sluice valves		5	@	1000	Rs.	0.05
5	Provision for carriage of material & other foreseen items etc., (L.S). 1 Job including cutting of road and making the same.		1	@	50000	Rs.	0.50
TOTAL						Rs.	28.65
Add 3% contingencies						Rs.	0.86
TOTAL						Rs.	29.51
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	14.46
TOTAL COST						Rs.	43.97



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.									
S. No.	Description	300 mm	200 mm	150 mm	100 mm	BRANCHES 100 mm	80 mm	65 mm	50 mm
(A)	Domestic								
1	UGT-W1	-	-	-	575	-	-	-	-
2	UGT-W1	-	-	-	575	-	-	-	-
	TOTAL	0	0	0	1150	0	0	0	0
(A)	Flushing								
1	STP-F1	-	-	-	575	-	-	-	-
2	STP-F2	-	-	-	575	-	-	-	-
	TOTAL	0	0	0	1150	0	0	0	0
	GRAND TOTAL	0	0	0	2300	0	0	0	0



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

DOMESTIC WATER SUPPLY - HYDRAULIC DESIGN																			
S. No	Ref of line	Length in mts	Self		Shopkeepers + Food Court Staff @ 45LPCD	Shop Visitor & Food Court Visitor @ 15LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Food & Beverage Staff @ 35 LPCD + Restaurant @ 70 LPCD	KLD	Domestic Water demand @ 60% KLD of AV/WD	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity mt/sec	Loss of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start			Remarks
			Shopkeepers staff @ 45LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD												HL (Mts)	GL (Mts)	TH (Mts)	
1	AT - UGT	-	-	-	-	-	-	60 % of (Shop keeper =47070+1411 95 litre) 60 % of (Food Court 49 77777 Lts Restaurant 48740+6964+4 500 Ltr+Audi- 59400lirs+Back wash- 20760+Staff- 20250 ltrs) 1/2 of 60 % of (Food Court 49 77777 Lts Restaurant 48740+6964+4 500 Ltr+Audi- 59400lirs+Back wash- 20760+Staff- 20250 ltrs)	237.790	237.79	713.38	-	-	-	-	0.00	0.00	0.00	Suction head-3.0 m Delivery head-5.0 m Friction loss -7.0 m Clear head req-33 m Total=48 m Say=50 meter.
2	UGT-W1	575	-	-	-	-	-	1/2 of 60 % of (Shop keeper =47070+1411 95 litre) 1/2 of 60 % of (Food Court 49 77777 Lts Restaurant 48740+6964+4 500 Ltr+Audi- 59400lirs+Back wash- 20760+Staff- 20250 ltrs)	118.895	118.90	356.68	100	0.75	0.50	0.29	-0.29	0.00	-0.29	
3	UGT-W1	575	-	-	-	-	-	1/2 of 60 % of (Shop keeper =47070+1411 95 litre) 1/2 of 60 % of (Food Court 49 77777 Lts Restaurant 48740+6964+4 500 Ltr+Audi- 59400lirs+Back wash- 20760+Staff- 20250 ltrs)	118.895	118.90	356.68	100	0.75	0.50	0.29	-0.58	0.00	-0.58	

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

**NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.
2. Levels have been taken with Reference to Road Level = 00**



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88, GURUGRAM MANESAR

FLUSHING WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self			Additional	AV/WD	Flushing Water demand @ 40% K.L.D.	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity mt/sec	Loss of Head in 1000 M (mts)	Level in start			Remarks
			Shopkeepers staff @ 45LPCD	Floating Population @ 10% of Population @ 15 LPCD	Shop Visitor & Food Court Visitor @ 15LPCD	Shopkeepers + Food Court Staff @ 45LPCD							HL (Mts)	GL (Mts)	TH (Mts)	
1	AT - STP	-	-	-	-	40 % of (Shop keeper =47070+1411 95 litre) 40 % of (Food Court 49 77777 48740+6964+4 500 Ltr+Audi-59400lirs+Back wash-20760+Staff-20250 lirs) 1/2 of 40 % of 77777 Ltr (Food Court 49 Restaurant 48740+6964+4 500 Ltr+Audi-59400lirs+Back wash-20760+Staff-20250 lirs)	158.663	237.79	713.38	-	-	-	0.00	0.00	0.00	Suction head-3.0 m Delivery head-5.0 m Friction loss -7.0 m Clear head req-33 m Total=48 m Say=50 meter.
2	STP-F1	575	-	-	-	1/2 of 40 % of (Shop keeper =47070+1411 95 litre) 1/2 of 40 % of 77777 Ltr (Food Court 49 Restaurant 48740+6964+4 500 Ltr+Audi-59400lirs+Back wash-20760+Staff-20250 lirs)	79.332	79.33	237.99	100	0.75	0.50	-0.29	0.00	-0.29	
3	STP-F2	575	-	-	-	1/2 of 40 % of (Shop keeper =47070+1411 95 litre) 1/2 of 40 % of 77777 Ltr (Food Court 49 Restaurant 48740+6964+4 500 Ltr+Audi-59400lirs+Back wash-20760+Staff-20250 lirs)	79.332	79.33	237.99	100	0.75	0.50	-0.58	0.00	-0.58	

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

2. Levels have been taken with Reference to Road Level = 00

3



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

Sub Work No-1					Water Supply	
Sub Work No-05					Fire fighting	
SI 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.					
	150 mm I/D for Ring Main	1210	@	1200.00	Rs.	14.52
	100 mm I/D for Tanker Inlet	15	@	1000.00	Rs.	0.15
	80 mm I/D for Yard Hydrant pipe	52	@	950.00	Rs.	0.49
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects					
	- 150 mm dia.	3	@	14000.00		0.42
	- 100 mm dia.	1	@	10000.00		0.10
	- 80 mm dia.	26	@	8000.00		2.08
3	Providing and fixing fire Hydrant with accessories	26	@	10000.00	Rs.	2.60
4	Providing for carriage of material (L.S.) 1 jobs	1	@	50000.00	Rs.	0.50
5	Providing and fixing Indicating plate	10	@	1000.00	Rs.	0.10
	TOTAL				Rs.	20.96
	Add 3% contingencies				Rs.	0.63
	TOTAL				Rs.	21.59
	Add 49% Department charges, Price Escalation & other unforeseen Charges.				Rs.	10.58
	TOTAL COST				Rs.	32.17
Material Statement of Fire ring – MS – 150mm dia						
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	-	20	-	-	-
2	Fire Ring Pipe	-	1150	-	-	-
3	Tanker inlet connection	-	-	26	-	-
4	Fire Brigade 4 way	-	20	-	-	-
5	Fire Brigade 2 way	-	20	-	-	-
6	Yard Hydrants = 26 Nos. x 2 Meters	-	-	-	52	26
	Total	0	1210	26	52	26
Fire Hydrant System						
1	Valves 150mm dia				3 Nos.	
2	Valves 100mm dia				1 No.	
3	Valves 80mm dia				26 Nos.	
4	Fire Hydrants				26 Nos.	
5	Fire Brigade Connections 4 Way				1 No.	
6	Fire Brigade Connections 2 Way				1 No.	



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

Sub Work No-1					Water Supply	
Sub Work No-06					Irrigation	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing and testing uPVC pipe line conforming to I.S 4985 including cost of excavation etc., complete in all respects.					
	20 mm O/D for Garden Hydrants	88	@	200	Rs.	0.18
	63 mm O/D UPVC Pipe for Ring Main	1150	@	500	Rs.	5.75
	75 mm O/D from STP to Ring Main		@	650	Rs.	0.00
2	Providing and fixing Irrigation hydrant valve complete in all respect.	44	@	2000	Rs.	0.88
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 20 mm	44	@	250	Rs.	0.11
5	Providing & fixing sluice valve complete with chamber.					
	- 75 mm dia.	44	@	4500	Rs.	1.98
	- 100 mm dia.	1	@	8000	Rs.	0.08
6	Providing and fixing Irrigation pump 2 nos., 2.0 HP, 50 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	25000	Rs.	0.50
TOTAL					Rs.	9.98
Add 3% contingencies					Rs.	0.30
TOTAL					Rs.	10.28
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	5.03
TOTAL COST					Rs.	15.31
Material statement of Irrigation System						
S. No.	Line Name	75 mm	63 mm OD	50 mm OD	20 mm OD	Irrigation Hydrants
1	Pump Room to G1	20				
2	Irrigation Ring		1150			
3	GARDEN HYDRANT (12 Nos x 2 M)				88	44
	Total	20	1150	0	88	44



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

Sub Work No-II					Sewerage Scheme	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, jointing, cutting and testing S.W pipe class 'A' / S.W.R. PVC and lowering into trenches including cost of excavation, bed concrete, cost of manhole etc., complete in all respects.					
	200 mm I/D Avg. depth upto 0 - 4.00 M (S.W. Pipe)	0	@	1100.00	Rs.	0.00
	250 mm I/D Avg. depth upto 0 - 4.00 M (S.W. Pipe)	1024	@	1200.00	Rs.	12.29
2	Provision for lighting and watching L.S	1.00	@	50000.00	Rs.	0.50
3	Provision for timbering and shuttering L.S.	1.00	@	50000.00	Rs.	0.50
4	Provision of 150 mm dia liine form STP to HUDA main by pumping	50	@	1000.00	Rs.	0.50
5	Providing boosting arrangement by 2 nos. pump for flushing water supply 7.5 HP capacity 450 L.P.M., 50 Meter Head	2	@	200000.00	Rs.	4.00
6	Provision for making STP (KLD)	317	@	10000.00	Rs.	31.70
7	Provision for making RCC grease trap 1000 x 1800mm complete	1.00	@	30000.00	Rs.	0.30
8	Provision for carriage of maternal (L.S.)	1.00	@	40000.00	Rs.	0.40
9	Provision of cutting road & making it good as same in original condition - 1 job	1.00	@	50000.00	Rs.	0.50
9	Providing Sewage with HUDA	1	@	100000.00	Rs.	1.00
	TOTAL				Rs.	51.69
	Add 3% contingencies				Rs.	1.55
	TOTAL				Rs.	53.24
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	26.09
	TOTAL COST				Rs.	79.33



Material statement of Sewerage System – As per drawing sheet

S. No.	Name of Pipe Line		Length of Pipe in M						
			500 mm	450 mm	400 mm	350 mm	300 mm	250 mm	200 mm
1	S1-S3		-	-	-	-	-	502	
2	S2-S3		-	-	-	-	-	502	
3	S3-STP		-	-	-	-	-	20	
	Total		0	0	0	0	0	1024	0



**REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM
MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.**

(Hydraulic Design Sewerage Scheme)

(Hydraulic Design Sewerage Scheme)																						
Sl. No.	Name of Line	Length in Meter	Self			Additional			Average Daily Water Demand	Average Discharge 80% of Domestic + 80% of flushing	Sub Soil Infiltration @ 10% Of AVI 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 + office staff @ 45LPD	Food & beverage staff @ 35 LPD	shop visitor, cinema visitor @ 15LPD	shopkeepers + office staff @ 45LPD	Food & beverage staff @ 35 LPD	shop visitor, cinema visitor @ 15LPD					Size of pipe (dia)	Capacity in cusec	Velocity			G.L	I.L			
		Mtr.	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-S3	502	50 % of total Commercial ,Food Court & Restaurant =200000 Lts						200.000	160.00	20.00	0.206	250.000	0.458	0.750		1:190	2.64	0.00	-0.90	0.00	-3.54
2	S2-S3	502	50 % of total Commercial ,Food Court & Restaurant =200000 Lts						200.000	160.00	20.00	0.206	250.000	0.458	0.750		1:190	2.64	0.00	-0.90	0.00	-3.54
3	S3-STP	20				LINE = S1-S2 50 % of total Commercial ,Food Court & Restaurant Area = 200000 Lts LINE = S3-S2 50 % of total Commercial ,Food Court & Restaurant Area = 200000Lts			400.000	320.00	40.00	0.412	250.000	0.659	0.750		1:190	0.11	0.00	-3.54	0.00	-3.65
Note:-	1	The Man hole shall be constructed as per HUDAJ N.B.C Norms																				
	2	All the level have been taken with Reference to road level =00																				



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.						
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 all respects.					
	400 mm I/D Avg. depth upto 2.0 M.	966	@	1500	Rs.	14.49
2	Provision for Road Gullies L.S.	LS			Rs.	0.50
3	Provision for lighting and watching	LS			Rs.	0.50
4	Provision for timbering and shoring L.S.	LS			Rs.	0.50
5	Provision for carriage of material & other foreseen items etc., L.S.	LS			Rs.	0.50
6	Provision for Rain water harvesting arrangements for 10.4375 Acres @ 1.50 Lac / Acres.	10.4	@	100000	Rs.	10.44
7	Provision for temporary connection with HUDA				Rs.	0.50
	TOTAL				Rs.	27.43
	Add 3% contingencies				Rs.	0.82
	TOTAL				Rs.	28.25
	Add 49% Department charges, price esclation, other for unforeseen charges.				Rs.	13.84
	TOTAL				Rs.	42.09



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM
MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

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.)
1	D1-D2	54	4000		4000	0.988	450	0.75	3.48	1:500	0.11	0.00	-0.90	0.90	0.00	-1.01	1.01
2	D2-RWH-1	5	200		4200	1.038	450	0.75	3.48	1:500	0.01	0.00	-1.01	1.01	0.00	-1.02	1.02
3	RWH-1-D4	83	4000		8200	2.026	450	0.75	3.48	1:500	0.17	0.00	-1.02	1.02	0.00	-1.18	1.18
4	D4-RWH-2	5	200		8400	2.076	450	0.75	3.48	1:500	0.01	0.00	-1.18	1.18	0.00	-1.19	1.19
5	D5-D6	64	4000		12400	3.064	450	0.75	3.48	1:500	0.13	0.00	-1.19	1.19	0.00	-1.32	1.32
6	D6-RWH-3	5	200		12600	3.113	450	0.75	3.48	1:500	0.01	0.00	-1.32	1.32	0.00	-1.33	1.33
7	RWH-3-O/F	5	200		12800	3.163	450	0.75	3.48	1:500	0.01	0.00	-1.33	1.33	0.00	-1.34	1.34
8	D7-D8	60	4000		16800	4.151	450	0.75	3.48	1:500	0.12	0.00	-1.34	1.34	0.00	-1.46	1.46
9	D8-RWH-4	5	200		17000	4.201	450	0.75	3.48	1:500	0.01	0.00	-1.46	1.46	0.00	-1.47	1.47
10	D9-D10	132	4000		21000	5.189	450	0.75	3.48	1:500	0.26	0.00	-1.47	1.47	0.00	-1.74	1.74
11	D10-RWH-5	5	200		21200	5.238	450	0.75	3.48	1:500	0.01	0.00	-1.74	1.74	0.00	-1.75	1.75
12	D11-D12	85	4000		25200	6.227	450	0.75	3.48	1:500	0.17	0.00	-1.75	1.75	0.00	-1.92	1.92
13	D12-RWH-6	5	200		25400	6.276	450	0.75	3.48	1:500	0.01	0.00	-1.92	1.92	0.00	-1.93	1.93
14	D13-D14	62	4000		29400	7.265	450	0.75	3.48	1:500	0.12	0.00	-1.93	1.93	0.00	-2.05	2.05
15	D14-RWH-7	5	200		29600	7.314	450	0.75	3.48	1:500	0.01	0.00	-2.05	2.05	0.00	-2.06	2.06
16	D15-D16	164	4000		33600	8.302	450	0.75	3.48	1:500	0.33	0.00	-2.06	2.06	0.00	-2.39	2.39
17	D16-RWH-8	5	200		33800	8.352	450	0.75	3.48	1:500	0.01	0.00	-2.39	2.39	0.00	-2.40	2.40



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM
MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

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

18	D17-D18	110	4000	37800	9.340	450	0.75	3.48	1:500	0.22	0.00	-2.40	2.40	0.00	-2.62	2.62
19	D18-RWH-9	5	200	38000	9.390	450	0.75	3.48	1:500	0.01	0.00	-2.62	2.62	0.00	-2.63	2.63
20	D19-D20	92	4000	42000	10.378	450	0.75	3.48	1:500	0.18	0.00	-2.63	2.63	0.00	-2.81	2.81
21	D20-RWH-10	5	200	42200	10.427	450	0.75	3.48	1:500	0.01	0.00	-2.81	2.81	0.00	-2.82	2.82
22	RWH-10- OVERFLOW	5	200	42400	10.477	450	0.75	3.48	1:500	0.01	0.00	-2.82	2.82	0.00	-2.83	2.83
		966														

NOTE:- 1. STORM WATER LINE SHALL BE LAID AS PER NBC/HUDA NORMS.
2. LEVEL HAVE BEEN TAKEN WITH REFERENCE TO ROAD LEVEL=00



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

SUB WORK NO. - IV						Road Work
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acres)					
	Area = 10.4375 Acre	10.43750	@	100000	Rs.	10.44
2	Provision for Granular sub base 100mm, 150 mm thick stone aggregate, 50 mm thick B.M., 20 mm thick pre mix corpet with seal coat	1700	@	500	Rs.	8.50
3	Provison of Paved path of C.C. 1:2:4	20	@	300	Rs.	0.06
4	Provision for Kerbs & channels of C.C. 1:2:4	20	@	350	Rs.	0.07
5	Provision for making approach to each block for C.C. pavements L.S.		@	50000	Rs.	0.50
6	Provision of guide maps at selected place (L.S.)		@	50000	Rs.	0.50
7	Provision for Traffic Lights arrangement - L.S.		@	30000	Rs.	0.30
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 unforeseen items - L.S.		@	50000	Rs.	0.50
	TOTAL				Rs.	23.37
	Add 3% contingencies				Rs.	0.70
	TOTAL				Rs.	24.07
	Add 49% Department charges, price esclation, other for unforeseen charges.				Rs.	11.79
	TOTAL				Rs.	35.86



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

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 No.A	1050		6	6300.00
	Total	1050			6300.00
	Add 10 % for curves				630.00
	Total				6,930.00
	Add for surface plaza/ parking				5,770.00
	Total				12,700.00
	Say				1,700.00
	Total Length of road	1050			
	Add 10% curves	105			
	Total Length	1155			
	Say	1155	Mtrs.		
	No. of CAR Parking = 577 Nos.	577	Nos.		
	Surface Plaza Area =2X5X577	5770	Sqmts.		
	Pave Path 1 Mtr on one side of Road = 20x1 =20	20	Mtrs.		



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

Sub Work No-V					Street Lighting	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing street lighting on roads as per standard specifications on HVPN					
	Area = 10.4375 Acre	10.438	@	100000	Rs.	10.44
	TOTAL				Rs.	10.44
	Add 3% contingencies				Rs.	0.31
	TOTAL				Rs.	10.75
	Add 49% Department charges, price esclation, other for unforeseen				Rs.	5.27
	TOTAL				Rs.	16.02



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

Sub Work No-V1					Plantation & Road side trees	
SI 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 "doob 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 HUDA norms)					
	Area = 01.1449 Acres	1.1449	@	100000	Rs.	1.14
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	1155				
	Trees					
	Or Say	482				
	Cost of One Tree :-					
	Excavation (Rs.) 30/-					
	Manure (Rs.) 40/-					
	Tree Plants (Rs.) 80/-					
	Tree Guards (Rs.) 600/-					
	Total Cost (each)					
	Cost of Total trees	482	@	64	Rs.	0.31
	TOTAL				Rs.	1.45
	Add 3% contingencies				Rs.	0.04
	TOTAL				Rs.	1.50
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	0.73
	TOTAL				Rs.	2.23



REVISED BUILDING PLAN OF COMMERCIAL COLONY MEASURING 10.4375 ACRES (LICENCE NO.56 OF 2013 DATED 10.07.2013) IN SECTOR -88 , GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY AMB INFRABUILD PVT. LTD.

SUB WORK NO. VII:				MTC. CHARGES AND RESURFACING OF ROADS.		
SI 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 HUDA norms after completion.					
	Area = 10.4375 Acre	10.438	@	300000	Rs.	31.31
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)	1700	@	250	Rs.	4.25
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	1700	@	200	Rs.	3.40
TOTAL					Rs.	38.96
Add 3% contingencies					Rs.	1.17
TOTAL					Rs.	40.13
Add 49% Department charges, price esclation, other for unforeseen					Rs.	19.66
TOTAL					Rs.	59.80

