

**EXTERNAL DEVELOPMENT WORKS
DESIGN AND COST ESTIMATES**

FOR

**APPROVAL OF SERVICE ESTIMATE OF
REVISED BUILDING PLAN OF
COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019)
IN SECTOR-84, GURUGRAM MENESAR
URBAN COMPLEX BEING DEVELOPED BY
RAMPRASTHA TOWERS PVT. LTD. AND
OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS PVT.
LTD.**

For AMEYA COMMERCIAL PROJECTS PVT. LTD.



Authorised Signatory



**DEVELOPED BY:
RAMPRASTHA TOWERS PVT. LTD. AND
OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING
PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84,
GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED
BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN**

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT REVISED BUILDING PLAN FOR REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES (LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS 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. Further, it has also started sharing the growing residential 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 Manesar Urban Complex Being Developed by RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD. REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES (LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX

WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Boosting station/ GMDA 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 GMDA supply, which will feed overhead tanks on the roof of the buildings. The water supply system has been designed as per Hazen Williams

DESIGN

The scheme has been designed for population of approx 4734 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 GMDA 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 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 conforming 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 50 so that it can be serve the B+G + 4 floors construction envisaged in the plan. Minimum pipe dia. for distribution is kept as 100

RISING MAIN

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

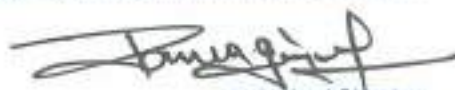
SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to GMDA 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. 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 / GMDA.

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.

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COST

The total cost of the scheme, including cost of all services works out to be Rs ~~567.95~~ ^{756.97} Lacs
Including 3% contingencies and 49% departmental charges, price escalation & other
unforeseen charges. Cost of per Acres Rs ~~223.8~~ ^{296.85} Lacs.

~~223.8~~ ^{296.85}

**RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.65 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
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FINAL ABSTRACT OF COST for Total of Block A+ Block B

Sub Work	Description	Amount (Rs.) in Lacs
I	Water Supply Scheme	367.58
II	Sewerage Scheme	34.39
III	Storm Water Drainage	24.85
IV	Road	78.22
V	Street Lighting	3.90
VI	Horticulture	3.95
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after 1st 5 year & IInd 5 years of mtc	55.15
	Total (in Lacs)	567.95
	Cost of Per Acre (in Lacs)	223.80
	2.55 Acre	570.72

RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.

**Executive Engineer
HSVP Division No V
Gurugram**

**Superintending Engineer,
HSVP Circle-I, Gurugram**

Checked subject to Comments
In forwarding letter No. 117433
Dt. 06/05/2024 and notes
Attached with the estimate

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

**Director
Town & Country Planning
Haryana, Chandigarh**

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(I) DAILY WATER REQUIREMENT

A) Block-A + Block B

a) Ground Floor (Shops)	=	1907 Persons
4160.845+1560.27=5721.11 sqm @ 3 sqm/ person		
b) Shops at First Floor	=	828 Persons
3551.814+1415.48=4967.294 sqm @ 6 sqm/ person		
c) Shops at Second Floor	=	754 Persons
3116.633+1407.66=4524.29 sqm @ 6 sqm/ person		
d) Shops at Third Floor	=	166 Persons
995.413 sqm @ 6 sqm/ person		
e) Total Population	=	3655 Persons
e) Shopkeepers @ 10% of Population	=	365 Persons
@ 45 LPCD	=	16446.9225 Liters/ Day
f) Visitors @ 90% of Population	=	3289 Persons
@ 15 LPCD	=	49340.7675 Liters/ Day
g) Auditorium at Third Floor	=	750 Persons
Audi-1,2,3,4		
Visitors @ 15 LPCD	=	11250.00 Liters/ Day
Staff (30 nos) @ 45 LPCD	=	1350.00 Liters/ Day
h) Restaurant at Third floor		
total area = 265 sqm @ 1.8 sqm per person	=	147 person
Visitors @ 90% of Population @ 70 LPCD	=	9275.00 Liters/ Day
Restaurant staff @ 10 % of Population @ 45 LPCD	=	662.50 Liters/ Day
i) Food court at Third floor		
total area = 265 sqm @ 1.8 sqm per person	=	147 person
Visitors @ 90% of Population @ 35 LPCD	=	4637.50 Liters/ Day
Restaurant staff @ 10 % of Population @ 45 LPCD	=	662.50 Liters/ Day
j) Water required for Kitchen & Laundry - L.S.		10000 Liters/day

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k) Maintenance staff	=	35 Persons
@ 45 LPCD	=	1575 Liters/ Day
l) Back Wash Filters - L.S.	=	6000 Liters/day

Total water demand (Block-A+Block B)	=	111200 Liters/day
SAY	=	111 KLD

Horticulture & Road Work

a) Area under Green area 640 sqmt	=	640 SQMM
^{6.17} @ 6 Ltrs./Sqmt	=	³⁹⁴⁸ 3840 Liters
b) Area under road + Paved area = 4800+1410 sqm	=	1.53485 Acres
@ 25 K.L./Acre	=	38371.23 Liters
Total Water Demand	=	⁴²³¹⁹ 42211 Liters
Say	=	42211 ⁴²³²⁰ Liters

The demand of horticulture & road work will met from recirculates water after treatment at S.T.P.

Total water demand (Block-A+Block B)	=	111200 Liters/day
	=	111.200 KLD
Say	=	111 KLD

Domestic water demand

60% of AV/WD of (A)	=	66720 Liters/day
Domestic water demand (KLD)	=	66.72 KLD
Or Say	=	67.00 KLD

Flushing water demand

40% of AV/WD	=	44480 Liters/day
Flushing water demand (KLD)	=	44.48 KLD
Or Say (Block-A+Block B)	=	45.00 KLD

Sewage Treatment Plant Capacity

Average Sewerage Contribution Considering 80% of AV domestic water demand & 100% of AV/Flushing demand	=	98600 Liter / Day
Sewage Treatment Plant Capacity (KLD)	=	98.60 KLD
Or Say (Block A - 77 KLD +Block B - 21 KLD)	=	98.00 KLD

Sewage scheme (Block-A+Block B)

Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	305100 Liters
	=	67800 GPD
	=	0.126 Cusces

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(I) DAILY WATER REQUIREMENT			
A) Block-A			
a)	Ground Floor (Shops) 4160.845 sqm @ 3 sqmt/ person	=	1387 Persons
b)	Shops at First Floor 3551.814 sqm @ 6 sqmt/ person	=	592 Persons
c)	Shops at Second Floor 3116.633 sqm @ 6 sqmt/ person	=	519 Persons
d)	Total Population	=	2498 Persons
e)	Shopkeepers @ 10% of Population	=	250 Persons
	@ 45 LPCD	=	11241 Liters/ Day
f)	Visitors @ 90% of Population	=	2248 Persons
	@ 15 LPCD	=	33723 Liters/ Day
g)	Auditorium at Third Floor Audi-1,2,3,4	=	750 Persons
	Visitors @ 15 LPCD	=	11250.00 Liters/ Day
	Staff (30 nos) @ 45 LPCD	=	1350.00 Liters/ Day
h)	Restaurant at Third floor total area = 265 sqm @ 1.8 sqm per person	=	147 person
	Visitors @ 90% of Population @ 70 LPCD	=	9275.00 Liters/ Day
	Restaurant staff @ 10 % of Population @ 45 LPCD	=	662.50 Liters/ Day
i)	Food court at Third floor total area = 265 sqm @ 1.8 sqm per person	=	147 person
	Visitors @ 90% of Population @ 35 LPCD	=	4637.50 Liters/ Day
	Restaurant staff @ 10 % of Population @ 45 LPCD	=	662.50 Liters/ Day
j)	Water required for Kitchen & Laundry - L.S.	=	10000 Liters/day
k)	Maintenance staff @ 45 LPCD	=	35 Persons 1575 Liters/ Day
l)	Back Wash Filters - L.S.	=	3000 Liters/day
	Total water demand (Block-A)	=	87377 Liters/Day

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SAY	=	87 KLD
Horticulture & Road Work		
a) Area under Green area = 640+665 sqmt	=	1305 SQMM
@ 6 Ltrs./Sqmt	=	7830 Liters
b) Area under road + Paved area = 4800 sqm	=	1.18636 Acres
@ 25 K.L./Acre	=	29658.92 Liters
Total Water Demand	=	37489 Liters
Say	=	37489 Liters
The demand of horticulture & road work will met from recirculates water after treatment at S.T.P.		
Total water demand	=	87377 Liters/day
	=	87.377 KLD
Say	=	87 KLD
Domestic water demand		
60% of AV/WD of (A)	=	52426 Liters/day
Domestic water demand (KLD)	=	52.43 KLD
Or Say	=	52.00 KLD
Flushing water demand		
40% of AV/WD	=	34951 Liters/day
Flushing water demand (KLD)	=	34.95 KLD
Or Say	=	35.00 KLD
Sewage Treatment Plant Capacity		
Average Sewerage Contribution Considering 80% of AV domestic water demand & 100% of AV/Flushing demand	=	76600 Liter / Day
Sewage Treatment Plant Capacity (KLD)	=	76.60 KLD
Or Say (Block-A)	=	77.00 KLD
Sewage scheme (Block-A)		
Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	239700 Liters
	=	53267 GPD
	=	0.099 Cusces

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(I) BOOSTING STATION			
Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day			
(a) Total domestic water demand = KLD	=		52.00
(b) Number of borewells ⁵² 35/(18 x 16)	=		0.18
Add 10% extra	=		0.02
Total	=		0.20
Say	=		1.00
So, it is proposed to provide One No. (1W) (One working). 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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(I) Pumping Machinery for Boosting Station			
Gross working Head	=	18.0	Meters
Average Fall in S.L.	=	5.0	Meters
Depression Head	=	5.0	Meters
Friction loss in main + Positive head	=	10.0	Meters
Total	=	38.0	Meters
Or Say	=	40.0	Meters
Pump HP = $\frac{18000 \times 40 \times 100}{60 \times 60 \times 75 \times 60}$			
	=	3.84	H.P.
Or Say	=	5.00	H.P.
It is proposed to provide 2 Nos. of 5HP motors 40 Mtr head (1 Working & 1 standby)			
(II) Plumbing Machinery for Domestic & Flushing Tank			
a) Total Domestic Water Demand	=	52000	Liters
Day Storage (Equal to one day)	=	52.00	KLD
Or Say	=	52.0	KLD
Fire Tank provided as per N.B.C. Norms	=	350.00	KLD
Hence it is proposed to construct an underground tank of 60 KLD having 30 KLD for treated water, 30 KLD as raw water, and 350 KLD for fire fighting purpose as per location shown on plan i.e. Total 410 K.L.D.			
(III) Boosting Machinery			
a) For Under Ground Tank			
Total water demand (Domestic)	=	52.00	KLD
L.P.M. for 6 hour pumping	=	144.44	LPM
Or Say	=	150.00	LPM
Gross Working Head			
- Suction lift	=	3.00	Meters
- Delivery head	=	5.00	Meters
- Frictional loss in Mains & Specials+ Positive head	=	9.50	Meters
- Clear head required	=	32.0	Meters
Total	=	49.5	Meters
Or Say	=	50.0	Meters
Pump HP = $\frac{150 \times 50 \times 100}{60 \times 75 \times 60}$			
	=	2.78	H.P.
Or Say	=	3.00	H.P.
It is proposed to provide 2 nos. of motors of 3 HP sets of 150 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.			

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b)	Flushing water supply requirement			
(ii)	Flushing water supply demand	=	34951	liters/day
	Flushing water demand (KLD)	=	34.95	KLD
	Or Say	=	35.00	KLD
	L.P.M. for @ 6 hour pumping			
		=	97.22	LPM
	Say	=	100.00	LPM
	Pump HP = $\frac{100 \times 50 \times 100}{60 \times 75 \times 40}$	=	1.55	H.P.
	Or Say	=	2.00	H.P.
	It is proposed to provide 2 nos. of motors 2 HP sets of 100 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			
			317.15	
	Water Demand of Horticulture + Road Area	=	37489	LPD
	8 Hours Pumping	=	78.10	LPM
	Say	=	80	70 LPM
	Head	=	35	Mtr.
	Pump HP = $\frac{80 \times 35 \times 100}{60 \times 75 \times 70}$	=	0.78	H.P.
	Or Say	=	1.00	H.P.
	It is proposed to provide 2 Nos. of motors of 1.0 HP sets of 70 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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(VI) PUMPS FOR FIRE PROTECTION						
S. No.	Parameters	Location	Pump sets			
			Water curtain	Jockey	Main	Diesel
1	Discharge in lpm	Pump Room	2600 lpm	180 lpm	2850 lpm	2850 lpm
2	Head in metre		50	80	80	80
3	HP		50	5	70	70
4	Quantity in nos.		1	2	2	1
(VII) GENERATING SETS						
S. No	Equipment	QTY		HP	Total HP	
1	Boosting Station	1		5	5.0	
2	For Jockey Pump	2		10 5	20.0	
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1		3+2+1	6.0	
	Total				31.0	
				15.66	29.13	KW
	Diversity 0.8 & Power factor 0.8			23.49	36.13	KVA
	Or Say				40.00	KVA
					25	
It is proposed to add 40 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	214.82
		<u>218.41</u>
II	Sewerage Scheme	21.95
		<u>33.62</u>
III	Storm Water Drainage	43.79
		<u>29.82</u>
IV	Road	32.14
		<u>71.42</u>
V	Street Lighting	2.63
		<u>6.33</u>
VI	Horticulture	2.58
		<u>2.59</u>
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after 1st 5 year & IInd 5 years of mtc	21.70
		<u>66.30</u>
	Total (in Lacs)	309.49
	Cost of Per Acre (in Lacs)	428.49

RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.

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Sub Work No.1						Water Supply
Sub Head	Description					Amount (Rs.), In lacs
1	Head Works					54.39 71.65
2	Pumping Machinery					11.13 13.43
3	Rising Main					6.45 6.18
4	Distribution System (Dom. & Flushing)					12.06 18.55
5	Fire Fighting					123.01 101.98
6	Irrigation					6.62 7.19
	Say (In Lacs)					214.82 218.41

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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 1 Nos. @ Rs. 500000/- each.	1	1500000		Rs.	15.00	
2	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.						
2.1	100 mm dia. D.I. Pipe	50	x	1475	Rs.	0.74	
3	Providing Boosting arrangement by pumps (5.00 HP) (capacity 300 lpm at 40 M head, 1 Nos. @ Rs. 50,000/- each (for Tube Well)	1		100000	Rs.	1.00	
4	Providing Boosting arrangement by pumps 3.0 HP, capacity 150 LPM at 50 M head, 1 Nos. each & @ Rs. 1,50,000/- each (For UGT) complete with panel, foundation etc.	1+1 2	x	150000 0.75	Rs.	1.50	
5	Provision for carriage of materials and other unforeseen items				Rs.	0.50	
6	Construction of U.G. tanks of total cap. 80 KL @ Rs. 6000KL P. Water Tank	80 KL	x	6000 5500	Rs.	4.80 4.40	
7	Provision for borewell chamber of size 1.5 x 1.5 m For Housing borewell 1 Nos. @ Rs. 50,000/- each	1	x	50000 (6.2)	Rs.	0.50 1.00	
4	Construction of U.G. tanks of total cap. 410 KL @ Rs. 4000KL incl. 350 KL for fire	410 KL	x	4000 5500	Rs.	16.40 22.50	
TOTAL						Rs.	36.44
Add 3% contingencies						Rs.	1.06
TOTAL						Rs.	36.50
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	17.89
TOTAL COST						Rs.	54.39
Material Statement of Borewells Rising Mains							
S. No.	Name of line	Length of 100 mm dia. pipe	Length of 100 mm dia. pipe	Length of 150 mm dia. pipe	Length of 200 mm dia. pipe		
1	B.W. to UGT	50					
	Total	50	0	0	0		

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Ramprastha
Authorised Signatory



**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

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. - 1 No. 30 KVA @ 450000/-	1	x	450000 (L.S.)	Rs.	4.50 3.75	
2	Providing for disinfection plant complete. 1 No. @ 50,000/-	1	x	50000 (L.S.)	Rs.	0.50 1.00	
3	Providing and installing pumping set of following capacities for Fire protections including Valve & NRV and Specials inside Boosting Chamber. 180 lpm Jockey Pump for hydrant 1 No. @ Rs.200,000/- Each	0	x	200000	Rs.	0.00	
	180 lpm Jockey Pump for sprinkler 1 No. @ Rs.200,000/- Each	0	x	200000	Rs.	0.00	
	Main Fire Pump 2850 lpm 1 No. @ Rs.500,000/- Each	0	x	500000	Rs.	0.00	
	Sprinkler Pump 2850 lpm 1 Nos. @ Rs.5,00,000/- Each	0	x	500000	Rs.	0.00	
	Water Curtain 2600 lpm 1 Nos. @ Rs.4,50,000/- Each	0	x	450000	Rs.	0.00	
	Diesel Fire Pump 2850 lpm 1 Nos. @ Rs.7,50,000 Rs. Each	0	x	750000	Rs.	0.00	
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 2.50	
7	Provision for carriage of material and unforeseen item, L.S. for Building Rs. 50000/-	1	x	50000	Rs.	0.50	
TOTAL						Rs.	8.757.25
Add 3% contingencies						Rs.	0.260.22
TOTAL						Rs.	9.017.47
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	4.422.66
TOTAL COST						Rs.	14.13 17.43

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

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. D.I. pipe lines including cost of excavation complete in all respects.	60	@	1000 1475/-	Rs.	0.60 0.89	
2	Providing and fixing 100 mm dia. sluice valves including cost of surface boxes and masonry 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	@	20000	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 (L.S.)	Rs.	1.75 2.00	
6	Provision for cutting road and making good the same (L.S.) 1 job	1	@	50000	Rs.	0.50	
TOTAL						Rs.	4.03 4.20
Add 3% contingencies						Rs.	0.12 0.13
TOTAL						Rs.	4.15 4.33
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	2.03 2.12
TOTAL COST						Rs.	6.18 6.45

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	60 m

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
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COMMERCIAL PROJECTS 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 80 pipes including cost of excavation complete as per ISI marked.						
	(Dom. + Flushing)						
1.1	100 mm I/D		726	@	1425	Rs.	10.71 7.08
1.2	150 mm I/D		0	@	1225	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		2	@	12000	Rs.	0.24 0.16
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		2	@	2000	Rs.	0.02
5	Provision for carriage of material & other foreseen items etc., (L.S). 1 Job including cutting of road and making the same.		1	@	50000 (L.S.)	Rs.	0.50 1.00
TOTAL						Rs.	12.99 7.86
Add 3% contingencies						Rs.	0.36 0.24
TOTAL						Rs.	12.45 8.09
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	6.10 3.97
TOTAL COST						Rs.	18.55 12.06

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

S. No.	Description	300 mm	200 mm	150 mm	100 mm	80 mm	40mm	65 mm	50 mm
(A) Domestic									
1	UGT-Domestic water supply line	-	-		15	-	-	-	-
2	Domestic water supply Ring	-	-	-	348				
	TOTAL	0	0	0	363	0	0	0	0
(A) Flushing									
1	STP-Flushing water supply line	-	-	0	15	-	-	-	-
2	Flushing water supply Ring	-	-	-	348				
	TOTAL	0	0	0	363	0	0	0	0
	GRAND TOTAL	0	0	0	726	0	0	0	0

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Ramagiri
Authorised Signatory



APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
DOMESTIC WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Staff		Additional				AV/WD	Domestic Water demand @ commercial 50% KLD	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity m/sec	Loss of Head in 1000 M (mts)	Loss of Head in the line (mts)	Level in start			Remarks
			Shopkeepers + Food Court Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Shop & Audit Visitor @ 15 LPCD	Shopkeepers, Food Court, Restaurant, and audit Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Shop & Audit Visitor @ 15 LPCD								HL (Mts)	GL (Mts)	TH (Mts)	
1	AT - UGT	-	-	-	-	Staff ~339 person = 15237 ltr	300 persons = 14123 ltr	2942 persons = 57136 ltr	86.496	51.90	155.69	-	-	-	-	27.70	1.05	26.65	(Ground Level = +1.05 U.G.T. Bed Level = -2.45 Add Building Head B+G = 3 = 27.7 mts Add Suction Head = 3.0 mts Delivery Head = 5.0 Positive Head = 3.0 mts Friction Loss = 4.0 mts Head Level = 27.7
2	UGT-WSI	15	-	-	-	Staff ~339 person = 15237 ltr	300 persons = 14123 ltr	2942 persons = 57136 ltr	86.496	51.90	155.69	100	0.75	0.1365	0.0263	27.60	1.05	26.53	
3	Domestic water supply Ring	548	Staff ~339 person = 15237 ltr	300 persons = 14123 ltr	2942 persons = 57136 ltr	-	-	-	86.496	51.90	155.69	100	0.75	0.1365	0.4715	27.21	1.05	26.16	

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

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
FLUSHING WATER SUPPLY - HYDRAULIC DESIGN**

S. No	Ref of line	Length in mts	Self		Additional		AVWD	Flushing Water demand @ 40% commercial K.L.D.	Peak Demand @ 3 times of AVWD	Dia of Pipe (mm)	Velocity m/sec	Loss of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start			Remarks
			Shopkeepers + Food Court Staff @ 45LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Shop & Audi Visitor @ 15 LPCD	Shopkeepers + Food Court, Restaurant and audi Staff @ 45LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Shop & Audi Visitor @ 15 LPCD	KLD					HL (Mts)	GL (Mts)	TH (Mts)	
1	AT S.T.P.		-	-	-	Staff =339 person =15237 ltr	300 persons = 14123 ltr	2942 persons = 57136 ltr	86 496	34 598	103.80	0.75	-	27.79	1.05	26.65	Ground Level= +1.05 U.G.T. Bed Level=-3.45 Add Building Head B+S=27.7 mts Add Suction Head=3.0 mts Delivery Head=5.0 Positive Head=3.0 mts Friction Loss=4.0 mts Head Level=27.7
2	STP-4WS1	15	-	-	-	Staff =339 person =15237 ltr	300 persons = 14123 ltr	2942 persons = 57136 ltr	86 496	34 598	103.80	0.75	0.0650	27.69	1.05	26.64	
3	Flushing water supply Ring	348	Staff =339 person =15237 ltr	300 persons = 14123 ltr	2942 persons = 57136 ltr	-	-	-	86 496	34 598	103.80	0.75	0.2263	27.40	1.05	26.41	

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.

FOR AMEYA COMMERCIAL PROJECTS PVT. LTD.
Ramesh
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**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS 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.					8.18
	150 mm I/D for Ring Main	401	@	2040/-1150.00	Rs.	4.61
	100 mm I/D for Tanker Inlet	20	@	1475/-950.00	Rs.	0.19
	80 mm I/D for Yard Hydrant pipe	20	@	1000/-900.00	Rs.	0.18
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects					0.20
	- 150 mm dia.	3	@	13000.00		0.43
	- 100 mm dia.	1	@	10000.00		0.10
	- 80 mm dia.	8	@	18000.00		0.64
3	Providing and fixing fire Hydrant with accessories	8	@	15000.00	Rs.	0.80
						1.20
4	Providing Fire Diesel pumps of 70 HP, capacity 2850 LPM at 70 M head, 1 Nos. each & @ Rs. 20,50,000/- each complete with panel, foundation etc.	1	@	2050000.00 14.00		20.50 14.00
5	Providing Fire Main pumps of 70 HP, capacity 2850 LPM at 70 M head, 1 Nos. each & @ Rs. 16,00,000/- each complete with panel, foundation etc.	2	@	1600000.00		32.00 28.00
6	Providing Fire Jockey pumps of 5 HP, capacity 180 LPM at 70 M head, 1 Nos. each & @ Rs. 5,00,000/- each complete with panel, foundation etc.	2	@	500000.00		10.00 4.00
7	Providing Water curtain pumps of 40 HP, capacity 2850 LPM at 50 M head, 1 Nos. each & @ Rs. 10,50,000/- each complete with panel, foundation etc.	1	@	1050000.00 8.00		10.50 8.00
8	Providing for carriage of material (L.S.) 1 jobs	1	@	50000.00	Rs.	0.50
9	Providing and fixing Indicating plate	10	@	2000.00	Rs.	0.20
TOTAL					Rs.	80.54
Add 3% contingencies					Rs.	2.42
TOTAL					Rs.	82.96
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	40.65
TOTAL COST					Rs.	123.61

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	-	15	-	-	-
2	Fire Ring Pipe	-	346	-	-	-
3	Tanker inlet connection	-	-	20	-	-
4	Fire Brigade 4 way	-	20	-	-	-

**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
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AMEYA COMMERCIAL PROJECTS PVT. LTD.**

5	Fire Brigade 2 way	-	20	-	-	-
6	Yard Hydrants = 16 Nos. x 2 Meters	-	-	-	20	7
	Total	0	401	20	20	7
Fire Hydrant System						
1	Valves 150mm dia				3 Nos.	
2	Valves 100mm dia				1 No.	
3	Valves 80mm dia				8 Nos.	
4	Fire Hydrants				8 Nos.	
5	Fire Brigade Connections 4 Way				1 No.	
6	Fire Brigade Connections 2 Way				1 No.	

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS 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	30	@	200	Rs.	0.06
	75 mm O/D UPVC Pipe for Ring Main	0	@	550	Rs.	0.00
	90 mm O/D from STP to Ring Main	374	@	650	Rs.	2.43
2	Providing and fixing Irrigation hydrant valve complete in all respect.	14	@	2000	Rs.	0.28
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 20 mm	14	@	250	Rs.	0.04
5	Providing & fixing sluice valve complete with chamber.					
	- 100 mm dia.	1	@	8000	Rs.	0.08
6	Providing and fixing Irrigation pump 2 nos., 1.0 HP, 50 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	5000	Rs.	1.00
	TOTAL				Rs.	4.69
	Add 3% contingencies				Rs.	0.14
	TOTAL				Rs.	4.83
	Add 49% Department charges, Price Escalation & other unforeseen Charges.				Rs.	2.37
	TOTAL COST				Rs.	7.19
	Material statement of Irrigation System					
S. No.	Line Name	90 mm	75 mm OD	50 mm OD	20 mm OD	Irrigation Hydrants
1	Pump Room to G1	25				
2	Irrigation Ring	349				
3	GARDEN HYDRANT				30	14
	Total	374	0	0	30	14

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS PVT. LTD.**

Sub Work No-II					Sewerage Scheme	
SI 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.					
	200mm dia	245	@	1700/ 900.00	Rs.	4.17 2.21
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 D.S APG	50	@	1000.00 2040/	Rs.	0.50 1.02
5	Providing Boosting arrangement by pumps 1 HP, capacity 100 LPM at 50 M head, 1 Nos. each & @ Rs. 100,000/- each (For Flushing) complete with panel, foundation etc.	(1+1) 2	@	100000.00 2.50 lacs	Rs.	4.00 0.50
6	Provision for making STP (KLD)	77 la	@	16000.00	Rs.	12.32 7.70
7	Provision for carriage of material (L.S.)	1	@	40000.00	Rs.	0.40
8	Provision of cutting road & making it good as same in original condition - 1 job	1	@	50000.00	Rs.	0.50
9	Providing Sewage with HSVP (connection)	1	@	200000.00	Rs.	2.00
TOTAL					Rs.	14.31 1.91
Add 3% contingencies					Rs.	0.43 0.66
TOTAL					Rs.	14.73 2.57
Add 49% Department charges, price escalation, other for unforeseen charges.					Rs.	7.22 11.05
TOTAL COST					Rs.	21.95 33.62

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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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	100 mm	150 mm	200 mm
1	S1-S2	-	-	-	-			83
2	S2-S3	-	-	-	-			75
3	S3-S4	-	-	-	-			32
4	S5-S4	-	-	-	-			50
5	S4-STP	-	-	-	-			5
	Total					0	0	245

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND
OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.**

(Hydraulic Design Sewerage Scheme)																					
Sl. No.	Name of Line	Length in Meter	Self			Additional				Average Daily Water Demand	Average Discharge 80% of Domestic + 50% of Flushing	Sub Soil Infiltration @ 10% Of A.W. W.D.	Peak Discharge @ 3 Times of AV Discharge Including Sub Soil Infiltration	Design of Pipe			Level at Start		Level at End		
			Shopkeepers + Food Court Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 75 LPCD	Shop & Audi Visitor @ 15 LPCD	Shopkeepers + Food Court, Restaurant, and audi Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD @ 15 LPCD	Shop & Audi Visitor & Backwash @ 15 LPCD	Size of pipe (dia)					Capacity in cumec	Velocity	Drop	G.L.	LL			
		Metre	LPCD	LPCD	LPCD	LPCD	LPCD	LPCD	MLD	MLD	LPCD	Cumecs	mm	m	ft/sec	Mtr.	Mtr.	Mtr.	G.L. (MM)	LL (MM)	
1	S1-S2	83	Staff =330 person =14850 ltr	200 persons = 7000 ltr	900 persons = 13500 litres	-	-	-	35.35	30.048	3.54	0.030	200,000	0.458	0.750	1:250	0.44	1.05	-0.25	1.05	-0.09
2	S2-S3	75	Staff =350 person =17550 ltr	250 persons = 8750 ltr	1900 persons = 28500 litres	-	-	-	54.80	46.580	5.45	0.080	200,000	0.458	0.750	1:250	0.39	1.05	-0.69	1.05	-1.08
3	S3-S4	33	Staff =420 person =18900 ltr	270 persons = 9450 ltr	2102 persons = 31530 litres	-	-	-	59.88	50.628	5.99	0.065	200,000	0.458	0.750	1:250	0.17	1.05	-1.08	1.05	-1.25
4	S4-S4	50	Staff =100 person =4725 ltr	130 persons = 4650 ltr	550 persons = 8250 litres	-	-	-	26.48	22.504	2.65	0.038	200,000	0.458	0.750	1:250	0.26	1.05	-0.25	1.05	-0.51
5	S4-S1P	5	Staff =525 person =23625 ltr	400 persons = 28000 ltr	2652 persons = 39760 litres	-	-	-	91.41	77.694	9.14	0.100	200,000	0.458	0.750	1:350	0.03	1.05	-1.25	1.05	-1.28

Note:- 1. The Man hole shall be constructed as per HUDA/N.B.C. Norms
2. LEVEL HAVE BEEN TAKEN WITH REFERENCE TO ROAD LEVEL=100MM

FOR AMEYA COMMERCIAL PROJECTS PVT. LTD.

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COLONY 2.55 ACRES (LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS 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 400 mm I/D Avg. depth upto 2.0 M.	297	@ 2500	Rs.	7.43	
2	Provision for Road Gullies L.S. <i>300mm pipe</i>	LS		Rs.	0.50	
3	Provision for lighting and watching <i>connection</i>	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 1.66 Acres (Block-A) @ 1.50 Lac / Acres	1.6600	@ 350000	Rs.	2.48	
7	Provision for temporary connection with HUDA <i>main</i>			Rs.	0.50	
8	<i>Pay for Temporary disposal arrangement</i>			Rs.	3.00	
TOTAL <i>Bill MRP services are provide. (L-1)</i>				Rs.	3.00	
Add 3% contingencies				Rs.	-0.27	19.43
TOTAL				Rs.	-0.25	0.58
Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	4.58	20.01
TOTAL				Rs.	13.79	29.81

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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<u>APPROVAL OF DETAILED ESTIMATE OF REQUIRED BORING DEPTH OF COMMERCIAL</u> COLONY 2.55 ACRES <u>(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR</u> <u>URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND</u> <u>OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.</u>						
STORM WATER DRAIN						
S. No	Name of Drain	400mm dia RCC pipe	450mm dia pipe	500mm dia RCC pipe		
Rain Water Harvesting						
1	D1-D2	148				
2	D3-D4	74				
3	D4-D2	65				
4	D2-RWH	5				
5	RWH- Oflow	5				
	TOTAL	297	0	0		

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT.**

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 (m/sec)	Design Capacity of Drain (Cusecs)	Gradient (Mtr.)	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	148	3443	0	3443	0.851	400	0.75	1.680	1:350	0.42	1.05	-0.25	1.30	0.15	-0.67	0.52
2	D3-D4	74	1722	3443	5165	1.276	400	0.75	1.680	1:350	0.21	1.05	-0.67	1.72	0.15	-0.88	1.03
2	D4-D2	65	1512	5165	6677	1.650	400	0.75	1.680	1:350	0.19	1.05	-0.88	1.93	0.15	-1.07	1.22
2	D2-RWH	5		10120	10120	2.501	400	0.75	1.680	1:350	0.01	1.05	-0.25	1.30	0.15	-0.26	0.41
4	RWH-Orrow	5		10120	10120	2.501	400	0.75	1.680	1:350	0.01	0.15	-0.25	0.41	0.15	-0.26	0.43
NOTE:- 1. STORM WATER LINE SHALL BE LAID AS PER NBC/HUDA NORMS. 2. LEVEL HAVE BEEN TAKEN WITH REFERENCE TO ROAD LEVEL=1050MM																	

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
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AMEYA COMMERCIAL PROJECTS PVT. LTD.

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)					
	Area = 1.65 Acre (Block-A)	1.650	@	100000	Rs.	2.69+65
2	Provision for Granular sub base 100mm, 150 mm thick stone aggregate, 50 mm thick B.M., 30 mm thick pre-mix carpet with seal coat	2445 2020	@	500 15000	Rs.	40.58 30.30
3	Provision of Paved path of C.C. 1:2:4	680	@	1000	Rs.	6.80+04
4	Provision for Kerbs & channels of CC 1:2:4	340 680	@	350 600	Rs.	2.04+38
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.	1.00+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 Arrangement, L.S.		@	150000	Rs.	1.50
11	Provision of carriage of material and unforeseen items - L.S.		@	150000	Rs.	0.50
TOTAL					Rs.	20.95+46.53
Add 3% contingencies					Rs.	0.63+1.40
TOTAL					Rs.	21.57+47.93
Add 49% Department charges, price escalation, other for unforeseen charges.					Rs.	10.57+23.49
TOTAL					Rs.	32.14+71.42

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
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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 No.A	306		6	1836.00
	Total	306			1836.00
	Add 10 % for curves				183.60
	Total				2,019.60
	Add for surface plaza/ parking				3,840.00
	Total				5,859.60
	Say				2,115.00
					2020
	Total Length of road	306			
	Add 10% curves	30.6			
	Total Length	336.6			
	Say	340	Mtrs.		
	No. of CAR Parking = 384 Nos.	384	Nos.		
	Surface Plaza Area = 2X5X3	3840	Sqmts.		Parking in basement
	CC foot paths on both side road				
	CC foot paths on both side = 2m x length of road	680	Mtrs.		

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
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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 = 1.65 Acre (Block-A)	1.650	@ 2500000	Rs.	4.13	
	TOTAL			Rs.	4.65	
	Add 3% contingencies			Rs.	0.05	
	TOTAL			Rs.	4.70	
	Add 49% Department charges, price escalation, other for unforeseen			Rs.	0.83	
	TOTAL			Rs.	5.53	

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
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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 "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)					
	Area = 1.65 Acre (Block-A)	(L.S.) 1.65	@ 100000	Rs.	1.65	
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	340				
	Trees @ 12 M. c/c	28				
	Say (1x 28) = 28 Or Say	30				
	Cost of One Tree :-					
	Excavation (Rs.) 30/-	60.00				
	Manure (Rs.) 40/-	100.00				
	Tree Plants (Rs.) 80/-	150.00				
	Tree Guards (Rs.) 600/-	2000.00				
	Total Cost (each)	2310				
	Cost of Total trees	30	@	2310 -64	Rs.	0.69
	TOTAL				Rs.	1.67
	Add 3% contingencies				Rs.	0.05
	TOTAL				Rs.	1.72
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	0.85
	TOTAL				Rs.	2.56

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
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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.					
	Area = 1.65 Acre (Block-A)	1.65	@	8.00 280000	Rs.	13.204.62
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)	2415 2020	@	250 6601	Rs.	5.29 13.33
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	2415 2020	@	200 8257	Rs.	4.23 16.67
TOTAL					Rs.	44.14 43.20
Add 3% contingencies					Rs.	0.42 1.30
TOTAL					Rs.	44.56 44.50
Add 49% Department charges, price escalation, other for unforeseen					Rs.	7.14 21.80
TOTAL					Rs.	21.70
						66.30

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES

(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.

(I) DAILY WATER REQUIREMENT			
A) Block-B			
a)	Ground Floor (Shops) 1560.27 sqm @ 3 sqmt/ person	=	520 Persons
b)	Shops at First Floor 1415.48 sqm @ 6 sqmt/ person	=	236 Persons
c)	Shops at Second Floor 1407.66 sqm @ 6 sqmt/ person	=	235 Persons
d)	Shops at Third Floor 995.413 sqm @ 6 sqmt/ person	=	166 Persons
e)	Total of Block-B	=	1157 Persons
e)	Shopkeepers @ 10% of Population	=	116 Persons
	@ 45 LPCD	=	5204.31975 Liters/ Day
f)	Visitors @ 90% of Population	=	1041 Persons
	@ 15 LPCD	=	15612.95925 Liters/ Day
l)	Back Wash Filters - L.S.	=	3000 Liters/day
	Total water demand (Block-B)	=	23817 Liters/day
	SAY	=	24 KLD
Horticulture & Road Work			
a)	Area under Green area 665 sqmt	=	665 SQMM
	@ 6 ¹⁷ Ltrs./Sqmt	=	^{4143.05} 3990 Liters
b)	Area under road + Paved area = 1410 sqm	=	0.34849 Acres
	@ 25 K.L./Acre	=	8712.31 Liters
	Total Water Demand	=	^{12915.36} 12702 Liters
	Say	=	13000 Liters
The demand of horticulture & road work will met from recirculates water after treatment at S.T.P.			
	Total water demand	=	23817 Liters/day
		=	23.817 KLD

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES

(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.

Say	=	23	KLD
<u>Domestic water demand</u>			
60% of AV/WD of (A)	=	14290	Liters/day
Domestic water demand (KLD)	=	14.29	KLD
<u>Flushing water demand</u>			
40% of AV/WD	=	9527	Liters/day
Flushing water demand (KLD)	=	9.53	KLD
<u>Sewage Treatment Plant Capacity</u>			
Average Sewerage Contribution Considering 80% of AV domestic water demand & 100% of AV/Flushing demand	=	20959.20552	Liter / Day
Sewage Treatment Plant Capacity (KLD)	=	20.96	KLD
Or Say (Block-2)	=	21.00	KLD
<u>Sewage scheme (Block-B)</u>			
Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	65300	Liters
	=	14511	GPD
	=	0.027	Cusces

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF
COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM
MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS
PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL
PROJECTS PVT. LTD.**

(I) BOOSTING STATION			
Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day			
(a) Total domestic water demand = KLD	=		14.29
(b) Number of borewells $35/(18 \times 16)$	=		0.05
Add 10% extra	=		0.00
Total	=		0.05
Say	=		1.00
So, it is proposed to provide ^{one} Two 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.			

For AMEYA COMMERCIAL PROJECTS PVT. LTD.


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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
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(I) Pumping Machinery for Boosting Station			
Gross working Head	=	18.0	Meters
Average Fall in S.L.	=	5.0	Meters
Depression Head	=	5.0	Meters
Friction loss in main + Positive head	=	10.0	Meters
Total	=	38.0	Meters
Or Say	=	40.0	Meters
Pump HP = $\frac{18000 \times 40 \times 100}{60 \times 60 \times 75 \times 10}$			
	=	4.44	H.P.
Or Say	=	5.00	H.P.
It is proposed to provide 2 Nos. of 5HP motors 40 Mtr head (1 Working & 1 standby)			
(II) Plumbing Machinery for Domestic & Flushing Tank			
a) Total Domestic Water Demand	=	14290	Liters
Day Storage (Equal to one day)	=	14.29	KLD
Or Say	=	15.0	KLD
Fire Tank provided as per N.B.C. Norms	=	280.00	KLD
Hence it is proposed to construct an underground tank of 50 KLD having 25 KLD for treated water, 25 KLD as raw water, and 220 KLD for fire fighting purpose as per location shown on plan i.e. Total 270 K.L.D.			
(III) Boosting Machinery			
a) For Under Ground Tank			
Total water demand (Domestic)	=	14.29	KLD
L.P.M. for 6 hour pumping	=	39.70	LPM
Or Say	=	50.00	LPM
Gross Working Head			
- Suction lift	=	3.00	Meters
- Delivery head	=	5.00	Meters
- Frictional loss in Mains & Specials+ Positive head	=	9.50	Meters
- Clear head required	=	25.0	Meters
Total	=	42.5	Meters
Or Say	=	50.0	Meters
Pump HP = $\frac{50 \times 50 \times 100}{60 \times 75 \times 10}$			
	=	0.92	H.P.
Or Say	=	1.00	H.P.
It is proposed to provide 2 nos. of motors of 1 HP sets of 50 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.			

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES

(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.

b)	Flushing water supply requirement			
(ii)	Flushing water supply demand @40%	=	9527	liters/day
	Flushing water demand (KLD)	=	9.53	KLD
	Or Say	=	10.00	KLD
	L.P.M. for @ 6 hour pumping			
		=	27.78	LPM
	Say	=	50.00	LPM
	Pump HP = $\frac{50 \times 50 \times 100}{60 \times 75 \times 60}$	=	0.92 0.79	H.P.
	Or Say	=	1.00	H.P.
	It is proposed to provide 2 nos. of motors 1 HP sets of 50 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			
	Water Demand of Horticulture + Road Area	=	13000	LPD
	8 Hours Pumping	=	27.08	LPM
	Say	=	25	LPM
	Head	=	35	Mtr.
	Pump HP = $\frac{25 \times 35 \times 100}{60 \times 75 \times 60}$	=	0.28 0.32	H.P.
	Or Say	=	1.00	H.P.
	It is proposed to provide 2 Nos. of motors of 1.0 HP sets of 25 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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(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
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(VI) PUMPS FOR FIRE PROTECTION						
S. No.	Parameters	Location	Pump sets			
			Water curtain	Jockey	Main	Diesel
1	Discharge in lpm	Pump Room	950 lpm	180 lpm	2280 lpm	2280 lpm
2	Head in metre		50	70	70	70
3	HP		40	5	60	60
4	Quantity in nos.		1	2	2	1
(VII) GENERATING SETS						
S. No	Equipment	QTY		HP	Total HP	
1	Boosting Station	1		5	5.0	
2	For Jockey Pump	2		5	10.0	
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1		1+1+1	3.0	
	Total				18.0	
					13.43	KW
	Diversity 0.8 & Power factor 0.8				20.98	KVA
	Or Say				25.00	KVA
It is proposed to add 25 KVA capacity for above said machinery to the main DG set.						

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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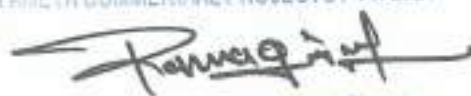


**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

FINAL ABSTRACT OF COST (for Block-B)

Sub Work	Description	Amount (Rs.) in Lacs
I	Water Supply Scheme	162.64
		177.70
II	Sewerage Scheme	12.43
		20.65
III	Storm Water Drainage	11.07
		21.87
IV	Road	46.67
		56.25
V	Street Lighting	4.37
		3.42
VI	Horticulture	4.39
		2.83
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after 1st 5 year & 11th 5 years of mto	33.46
		46.36
	Total (in Lacs) for Block-B	268.42
	Cost of Per Acre (in Lacs)	290.86
		328.46
RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.		
(AUTHORIZED SIGNATORY)		

For AMEYA COMMERCIAL PROJECTS PVT. LTD.


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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
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Sub Work No.1						Water Supply	
Sub Head	Description					Amount (Rs.) In lacs	
1	Head Works					40.16	
2	Pumping Machinery					52.60	
3	Rising Main					8.06	
4	Distribution System (Dorm. & Flushing)					9.20	
5	Fire Fighting					6.26	
6	Irrigation					4.76	
	Say (In Lacs)					11.31	
						16.13	
						81.90	
						89.28	
						5.69	
						6.46	
						182.64	
						177.70	

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
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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 1 Nos. @ Rs. 500000/- each.	1	500000	Rs. 5.00	
2	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.				
2.1	100 mm dia. D.I. Pipe	25	x 1475	Rs. 0.37	
3	Providing Boosting arrangement by pumps (5.00 HP) (capacity 300 lpm at 40 M head, 1 Nos. @ Rs. 50,000/- each (for Tube Well)	1	100000	Rs. 1.00	
4	Providing Boosting arrangement by pumps 1.0 HP, capacity 50 LPM at 50 M head, 1 Nos. each & @ Rs. 50,000/- each (For UGT) complete with panel, foundation etc.	1 2	x 150000 0.25	Rs. 1.50 0.50	
5	Provision for carriage of materials and other unforeseen items			Rs. 0.50	
6	Construction of U.G. tanks of total cap. 25 KL @ Rs. 6000KL <i>Flushing Water Tanks</i>	25 2.5	x 6000 5500	Rs. 1.38 1.50	
7	Provision for borewell chamber of size 1.5 x 1.5 m For Housing borewell 1 Nos. @ Rs. 50,000/- each	1	x 50000	Rs. 0.50	
4	Construction of U.G. tanks of total cap. 270 KL @ Rs. 4000KL <i>STW</i>	270	x 4000 5500	Rs. 14.85 10.80	
TOTAL				Rs. 34.27 26.17	
Add 3% contingencies				Rs. 1.03 0.79	
TOTAL				Rs. 35.30 26.95	
Add 49% Department charges, Price Escalation & other unforeseen Charges.				Rs. 17.30 13.21	
TOTAL COST				Rs. 52.60 40.16	
Material Statement of Borewells Rising Mains					
S. No.	Name of line	Length of 100 mm dia. pipe	Length of 100 mm dia. pipe	Length of 150 mm dia. pipe	Length of 200 mm dia. pipe
1	B.W. to UGT	25			
Total		25	0	0	0

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Ramgopal
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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

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. - 1 No. 25 KVA @ 250000/-	1	x	250000	Rs.	2.50
2	Providing for disinfection plant complete. 1 No. @ 50000/-	1	x	50000	Rs.	0.50
3	Providing and installing pumping set of following capacities for Fire protections Including Valve & NRV and Specials inside Boosting Chamber. 180 lpm Jockey Pump for hydrant 1 No. @ Rs.200,000/- Each Main Fire Pump 2280 lpm 1 No. @ Rs.500,000/- Each Diesel Fire Pump 2280 lpm 1 Nos. @ Rs. 7,50,000 Rs. Each	0	x	200000	Rs.	0.00
		0	x	500000	Rs.	0.00
		0	x	750000	Rs.	0.00
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. 75000/-	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.	6.46
Add 3% contingencies					Rs.	0.18
TOTAL					Rs.	6.64
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	3.26
TOTAL COST					Rs.	9.90

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Ramagiri
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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.56 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

Sub Work No-1

Water Supply

Sub Work No-03

Rising Main from HSVP

SI No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)
1	Providing, laying, jointing & testing 100 mm dia. UP pipe lines including cost of excavation complete in all respects.	15 @	1000 1475	Rs. 0.15 0.22
2	Providing and fixing 100 mm dia. sluice valves including cost of surface boxes and masonry 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 2000	Rs. 0.10 0.02
4	Provision for carriage of material & other foreseen items etc., L.S.	1 @	50000	Rs. 0.50 0.25
5	Provision for making connection with HUDA main (L.S.) 1 job1 complete in all respect	1 @	175000	Rs. 1.75 2.00
6	Provision for cutting road and making good the same (L.S.) 1 job	1 @	50000 (1.0)	Rs. 0.50
TOTAL				Rs. 3.11 3.75
Add 3% contingencies				Rs. 0.09 0.11
TOTAL				Rs. 3.20 3.86
Add 49% Department charges, Price Escalation & other unforeseen Charges.				Rs. 1.56 1.89
TOTAL COST				Rs. 4.76 5.75

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	100	15

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
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COMMERCIAL PROJECTS PVT. LTD.**

Sub Work No-1						Water Supply	
Sub Head No-04						Distribution system	
Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)	
1	Providing, laying, jointing & testing DI pipes including cost of excavation complete as per ISI marked. <i>(Down + Flushing)</i>						
1.1	100 mm I/D	614	@	975 1475	Rs.	9.06	6.99
1.2	150 mm I/D	0	@	1225	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	2	@	10000 18000	Rs.	0.24	0.16
2.2	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	Rs.	0.20	
4	Providing and Fixing indicating plates for sluice valves	2	@	2000 2000	Rs.	0.02	
5	Provision for carriage of material & other foreseen items etc., (L.S). 1 Job including cutting of road and making the same.	2	@	50000	Rs.	1.00	
TOTAL						Rs.	10.54 7.37
Add 3% contingencies						Rs.	0.32 0.22
TOTAL						Rs.	10.86 7.59
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	5.31 3.72
TOTAL COST						Rs.	16.17 11.31

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING
DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH AMEYA
COMMERCIAL PROJECTS PVT. LTD.**

S. No.	Description	300 mm	200 mm	150 mm	100 mm	80 mm	40mm	65 mm	50 mm
(A) Domestic									
1	UGT-Domestic water supply line	-	-	-	15	-	-	-	-
2	Domestic water supply ring	-	-	-	292	-	-	-	-
	TOTAL	0	0	0	307	0	0	0	0
(A) Flushing									
1	STP-Flushing water supply line	-	-	-	15	-	-	-	-
2	Flushing water supply ring	-	-	-	292	-	-	-	-
	TOTAL	0	0	0	307	0	0	0	0
	GRAND TOTAL	0	0	0	614	0	0	0	0

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASHTHA TOWERS PVT. LTD. AND OTHERS IN
COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.**

DOMESTIC WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self		Additional		AVWD	Domestic Water demand @ commercial 65% KLD	Peak Demand @ 3 time of AVWD	Dia of Pipe (mm)	Velocity m/sec	Loss of Head in 1000 M (m/s)	Loss of head in this line (mts)	Level in start			Remarks
			Shopkeepers, Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Visitor & Backwash @ 15 LPCD	Shopkeepers, Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Visitor & Backwash @ 15 LPCD	KLD					HL (Mts)	CL (Mts)	TH (Mts)	
1	AT - UGT	-	-	-	-	Staff = 116 person = 5220 ltr	-	1041 persons = 15615 ltr	20.835	12.50	37.50	-	-	41.05	1.05	40.00	Ground Level = +1.05 U.G.T. Bed Level = -7.45 Add Building Head 28+G+L=1.05 mtr Add Suction Head=3.0 mtr Delivery Head=5.0 Positive Head=3.0 mtr Friction Loss=4.0 mtr Head Level=1.05
2	UGT-WS1	15	-	-	-	Staff = 116 person = 5220 ltr	-	1041 persons = 15615 ltr	20.835	12.50	37.50	0.0015	0.0062	41.05	1.05	40.00	
3	Domestic Ring	292	Staff = 116 person = 5220 ltr	-	1041 persons = 15615 ltr	-	-	-	20.835	12.50	37.50	0.0103	0.0361	41.02	1.05	39.97	

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



For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Pamraj
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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN
COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.**

FLUSHING WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self		Additional		AVWD	Flushing Water demand @ 40% commercial K.L.D.	Peak Demand @ 3 time of AVWD	Dia of Pipe (mm)	Velocity m/sec	Loss of Head in 1000 M (mts)	Loss of Head in the line (mts)	Level in start			Remarks
			Shopkeepers, Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 75 LPCD	Visitor & Backwash @ 15 LPCD	Shopkeepers, Staff @ 45 LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 75 LPCD	Visitor & Backwash @ 15 LPCD	KLD					HL (Mts)	GL (Mts)	TH (Mts)	
1	AT & T.P.		-	-	-	Staff = 100 person = 4574 ltr	-	973 persons = 17620 ltr	22,480	8,996	26.99	-	-	41.06	1.05	40.00	Ground Level = +1.05 U.G.T. Bed Level = -7.45 Add Building Head 20 = 64 = +1.05 mtr Add Suction Head = 3.0 mtr Delivery Head = 5.0 Positive Head = 3.0 mtr Friction Loss = 0 mtr Head Level = +1.05
2	STP-FWB-1	15	-	-	-	Staff = 100 person = 4574 ltr	-	973 persons = 17620 ltr	22,480	8,996	26.99	0.0057	0.0069	41.06	1.05	40.00	
3	Flushing Ring	202	Staff = 116 person = 5220 ltr	-	1041 persons = 15516 ltr	-	-	-	22,490	8,996	26.99	0.0057	0.0166	41.03	1.05	39.98	

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



For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Rajiv
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**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS 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.					6.81
	150 mm I/D for Ring Main	334	@	20401150.00	Rs	3.84
	100 mm I/D for Tanker Inlet	20	@	14751950.00	Rs	0.38
	80 mm I/D for Yard Hydrant pipe	15	@	10001900.00	Rs.	0.15
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects					0.60
	- 150 mm dia.	4	@	150000.00		0.42
	- 100 mm dia.	1	@	10000.00		0.12
	- 80 mm dia.	6	@	10000.00		0.48
3	Providing and fixing fire Hydrant with accessories	6	@	15000.00	Rs.	0.60
						0.90
4	Providing Fire Diesel pumps of 60 HP, capacity 2280 LPM at 70 M head, 1 Nos. each & @ Rs. 12,50,000/- each complete with panel, foundation etc.	1	@	1250000.00		12.50
5	Providing Fire Main pumps of 60 HP, capacity 2280 LPM at 70 M head, 1 Nos. each & @ Rs. 10,00,000/- each complete with panel, foundation etc.	2	@	1000000.00		20.00
						25.00
6	Providing Fire Jockey pumps of 5 HP, capacity 180 LPM at 70 M head, 1 Nos. each & @ Rs. 4,00,000/- each complete with panel, foundation etc.	2	@	400000.00		4.00
7	Providing Water curtain pumps of 10 HP, capacity 950 LPM at 50 M head, 1 Nos. each & @ Rs. 6,50,000/- each complete with panel, foundation etc.	1	@	650000.00		6.50
8	Providing for carriage of material (L.S.) 1 jobs	1	@	50000.00	Rs.	0.50
9	Providing and fixing Indicating plate	10	@	2000.00	Rs.	0.20
TOTAL					Rs.	53.37
Add 3% contingencies					Rs.	1.60
TOTAL					Rs.	54.97
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	26.93
TOTAL COST					Rs.	81.90
						89.28
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	-	15	-	-	-
2	Fire Ring Pipe	-	289	-	-	-
3	Tanker inlet connection	-	-	20	-	-
4	Fire Brigade 4 way	-	15	-	-	-
5	Fire Brigade 2 way	-	15	-	-	-

**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
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AMEYA COMMERCIAL PROJECTS PVT. LTD.**

6	Yard Hydrants	-	-	-	15	6
	Total	0	334	20	15	6
	Fire Hydrant System					
1	Valves 150mm dia				3 Nos.	
2	Valves 100mm dia				1 No.	
3	Valves 80mm dia				6 Nos.	
4	Fire Hydrants				6 Nos.	
5	Fire Brigade Connections 4 Way				1 No.	
6	Fire Brigade Connections 2 Way				1 No.	

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**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS 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	17	@	200	Rs.	0.03
	75 mm O/D UPVC Pipe for Ring Main	5	@	550	Rs.	0.03
	90 mm O/D from STP to Ring Main	303	@	650	Rs.	1.97
2	Providing and fixing Irrigation hydrant valve complete in all respect.	11	@	1000	Rs.	0.11
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 20 mm	11	@	250	Rs.	0.03
5	Providing & fixing sluice valve complete with chamber.					
	- 100 mm dia.	1	@	10000	Rs.	0.01
6	Providing and fixing Irrigation pump 2 nos., 1.0 HP, 25 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	35000	Rs.	0.70
TOTAL					Rs.	3.56
Add 3% contingencies					Rs.	0.11
TOTAL					Rs.	3.67
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	1.80
TOTAL COST					Rs.	5.46
Material statement of Irrigation System						
S. No.	Line Name	90 mm	75 mm OD	50 mm OD	20 mm OD	Irrigation Hydrants
1	Pump Room to G1	12				
2	Irrigation Ring	291	5			
3	GARDEN HYDRANT				17	11
	Total	303	5	0	17	11

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

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**(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX
BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND OTHERS IN COLLABORATION WITH
AMEYA COMMERCIAL PROJECTS PVT. LTD.**

Sub Work No-II					Sewerage Scheme	
SI 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.					
	200mm dia	228	@	1700/-	Rs.	3.89
2	Provision for lighting and watching L.S	1	@	50000.00	Rs.	2.05
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 D-3 PIPG	70	@	1000.00	Rs.	0.70
5	Providing Boosting arrangement by pumps 1 HP, capacity 50 LPM at 50 M head, 1 Nos. each & @ Rs. 35,000/- each (For Flushing) complete with panel, foundation etc.	1	@	25000.00	Rs.	1.43
6	Provision for making STP (KLD)	21	@	10000.00	Rs.	0.56
7	Provision for carriage of material (L.S.)	1	@	40000.00	Rs.	0.35
8	Provision of cutting road & making it good as same in original condition - 1 job	1	@	50000.00	Rs.	3.36
9	Providing Sewage with HSVP (Connection)	1	@	900000.00	Rs.	2.10
TOTAL					Rs.	8.10
Add 3% contingencies					Rs.	0.24
TOTAL					Rs.	8.36
Add 49% Department charges, price escalation, other for unforeseen charges.					Rs.	4.09
TOTAL COST					Rs.	12.43

20.05

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Ramprastha
Authorised Signatory



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	100 mm	150 mm	200 mm
1	S1-S2	-	-	-	-			89
2	S2-S3	-	-	-	-	-		79
3	S4-S3	-	-	-	-	-		50
4	S3-STP	-	-	-	-	-		10
	Total					0	0	228

For AMEYA COMMERCIAL PROJECTS PVT. LTD.


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**APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES
(LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND
OTHERS IN COLLABORATION WITH AMEYA COMMERCIAL PROJECTS PVT. LTD.**

(Hydraulic Design Sewerage Scheme)																					
Sl. No.	Name of Line	Length in Meter	Sewer				Additional				Peak Discharge @ 3 Times of Avg Discharge including Sub Soil infiltration	Design of Pipe				Level at Start			Level at End		
			Shopkeepers + Food Court Staff @ 48LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Shop & Audi Visitor @ 15 LPCD	Shopkeepers + Food Court, Restaurant, and audi Staff @ 48LPCD	Food & Beverage Staff @ 35 LPCD & Restaurant @ 70 LPCD	Shop & Audi Visitor & Backwash @ 15 LPCD	Average Daily Water Demand	Average Discharge 85% of Domestic + 90% of flushing		Sub Soil Infiltration @ 10% of A.W. W.D.	Rate	Capacity in cumec	Velocity	Gradient	Drop	G.L.		I.L.	
		Metro	LFD	LFD	LFD	LFD	LFD	LFD	KLD	KLD	LFD	Cumec	m	m/sec	Mtr.	Mtr.	Mtr.	G.L. (Mtr)	I.L. (Mtr)		
1	S1-S2	60	Staff =58 person =2610 ltr	-	521 persons = 7808 litres	-	-	-	10.42	8.857	1.04	0.011	200.000	0.458	0.750	1.250	0.41	1.05	-0.25	1.05	-0.72
2	S2-S3	70	Staff =18 person =610 ltr	-	156 persons = 2340 litres	-	-	-	3.15	2.678	0.32	0.003	200.000	0.458	0.750	1.250	0.42	1.05	-0.72	1.05	-1.13
3	S4-S3	50	Staff =6 person =270 ltr	-	52 persons = 780 litres	-	-	-	1.06	0.893	0.11	0.001	200.000	0.458	0.750	1.200	0.26	1.05	-0.25	1.05	-0.51
4	S3-STP	10	Staff =116 person =5220 ltr	-	1041 persons = 15615 litres	-	-	-	20.84	17.710	2.06	0.023	200.000	0.458	0.750	1.250	0.05	1.05	-1.13	1.05	-1.19

Note: 1. The Man hole shall be constructed as per HUDA/ N.B.C Norms
2. LEVEL HAVE BEEN TAKEN WITH REFERENCE TO ROAD LEVEL=195MM

For AMEYA COMMERCIAL PROJECTS PVT. LTD.

Pamgind
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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES (LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND						
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 400 mm I/D Avg. depth upto 2.0 M.	250	@	25001 1350	Rs.	6.25 3.38
	450 mm I/D Avg. depth upto 2.0 M.	0	@	1550	Rs.	0.00
2	Provision for Road Gullies L.S. with 300 dia pipe	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
5	Provision for carriage of material & other foreseen items etc., L.S.	LS			Rs.	0.50
6	Provision for Rain water harvesting arrangements for 0.89 Acres (Block-B) @ 4.50 Lac./Acres.	0.8900 1000	@	350000	Rs.	1.34 3.30
7	Provision for temporary connection with HUDA				Rs.	0.50 3.00
TOTAL					Rs.	7.21 14.25
Add 3% contingencies					Rs.	0.22 0.42
TOTAL					Rs.	7.43 14.67
Add 49% Department charges, price escalation, other for unforeseen charges.					Rs.	3.64 7.20
TOTAL					Rs.	11.07 21.87

For AMEYA COMMERCIAL PROJECTS PVT. LTD.


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APPROVAL OF SERVICE ESTIMATE OF REVISED BUILDING PLAN OF COMMERCIAL COLONY 2.55 ACRES (LICENCE NO 44 OF 2019 DATED 05-03-2019) IN SECTOR-84, GURUGRAM MENESAR URBAN COMPLEX BEING DEVELOPED BY RAMPRASTHA TOWERS PVT. LTD. AND						
STORM WATER DRAIN						
S. No	Name of Drain	400mm dia RCC pipe	450mm dia pipe	500mm dia RCC pipe		
Rain Water Harvesting - 1						
1	D1-D2	143				
2	D3-D2	92				
6	D3- RWH	5				
7	RWH1-Oflow	10				
	TOTAL	250	0	0		

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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 (m/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																	
1	D1-D2	143	2192	0	2192	0.542	400	0.75	1.680	1:350	0.41	1.05	0.15	0.90	1.05	-0.26	1.31
2	D3-D2	92	1410		1410	0.348	400	0.75	1.680	1:350	0.26	1.05	0.15	0.90	1.05	-0.11	1.16
3	D3-RWH	5	0	3602	3602	0.890	400	0.75	1.680	1:350	0.01	1.05	-0.26	1.31	1.05	-0.27	1.32
4	RWH-overflow	10		3602	3602	0.890	400	0.75	1.680	1:350	0.03	1.05	-0.27	1.32	1.05	-0.30	1.35
NOTE:- 1. STORM WATER LINE SHALL BE LAID AS PER NBC/HUDA NORMS. 2. LEVEL HAVE BEEN TAKEN WITH REFERENCE TO ROAD LEVEL=1950MM																	

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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)					1.56
	Area = 0.89 Acre (Block-B)	0.890	@	100000	Rs.	0.89
2	Provision for Granular sub base 200mm, 150 mm thick stone aggregate, 50 mm thick B.M., 30 mm thick pre-mix carpet with seal coat	4290 1535	@	500 1500	Rs.	21.45 2.33
3	Provision of Paved path of C.C. 1:2:4	520	@	1000	Rs.	5.20 1.56
4	Provision for Kerbs & channels of CC 1:2:4	250 520	@	250 600	Rs.	1.56 1.82
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 (6.5)	Rs.	1.95 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 Arrangement, L.S.		@	150000	Rs.	1.50
11	Provision of carriage of material and unforeseen items - L.S.		@	50000	Rs.	0.50
TOTAL					Rs.	30.02 36.65
Add 3% contingencies					Rs.	0.90 1.10
TOTAL					Rs.	30.92 37.75
Add 49% Department charges, price escalation, other for unforeseen charges.					Rs.	15.15 18.50
TOTAL					Rs.	46.07 56.25

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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 No.A	235		6	1410.00
	Total	235			1410.00
	Add 10 % for curves				141.00
	Total				1,551.00
	Add for surface plaza/ parking				-
	Total				1,551.00
	Say				4,290.00
	Total Length of road	235			
	Add 10% curves	23.5			
	Total Length	258.5			
	Say	260	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 both side =2m x length of road	520	Mtrs.		

Say 1551 Sqm

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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 = 0.89 Acre (Block-B)	0.890	@	2600000	Rs.	2.32 0.89
	TOTAL				Rs.	0.89
	Add 3% contingencies				Rs.	0.03
	TOTAL				Rs.	0.92 2.29
	Add 49% Department charges, price escalation, other for unforeseen				Rs.	0.45 1.13
	TOTAL				Rs.	1.37 3.42

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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 "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)					
	Area = 0.89 Acre (Block-B)	0.89	@ 150000	Rs.	1.34	0.89
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	260				
	Trees @ 12 M. c/c	22				
	Say (1x 22) = 35 Or Say	22				
	Cost of One Tree :-					
	Excavation (Rs.) 30/-					
	Manure (Rs.) 40/-					
	Tree Plants (Rs.) 80/-					
	Tree Guards (Rs.) 500/-					
	Total Cost (each)					
	Cost of Total trees	22	@ 64	Rs.	0.51	0.01
	TOTAL		2310	Rs.	0.90	1.89
	Add 3% contingencies			Rs.	0.03	
	TOTAL			Rs.	0.93	1.90
	Add 49% Department charges, price escalation, other for unforeseen charges.			Rs.	0.46	0.93
	TOTAL			Rs.	1.39	2.83

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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 HSVP norms after completion.					
	Area = 0.89 Acre (Block-B)	0.89	@	8.00 280000	Rs.	7.12 2.49
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)	4290 1555	@	250 660	Rs.	10.73 10.26
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	4290 1555	@	200 825	Rs.	12.83 8.58
TOTAL					Rs.	21.80 30.21
Add 3% contingencies					Rs.	0.65 0.91
TOTAL					Rs.	22.45 31.12
Add 49% Department charges, price escalation, other for unforeseen					Rs.	11.00 15.26
TOTAL					Rs.	33.45 46.36

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