PROJECT - AAFFORDABLE GROUP HOUSING COLONY ON LAND MEASURING 5.7875 ACRES (LICENSE NO. 43 OF 2021) IN THE REVENUE ESTATE OF VILLAGE ULLAWAS,SECTOR 62, DIST.							
Design Calculation							
A)	**Requirement of Water :-**						
	No. of Apartments	800					
	Population @ 5 Persons Per Apartment	800	x	5.00	=	4000	Person
		Total Population			=	4000	Person
	Daily Requirement @ 172.50 (150 + 15% uncounted W/S) Lit. / Head / day	4000	x	172.50	=	690000	Lit.
				Say (A)		690.00	KL
i	Community building With Crèche						
	Population @ 1.4 Sqm. Per Person for 190.678x2	381.35	/	1.4		272.39	Person
	Daily requirement @ 45 lpcd	272.39	x	45		12257.68	Lit.
	Total Water Requirement					12530.07	Lit.
					Say	**12.53**	KL
ii	Commercial	Sqm					
	Population @ 3 Sqm. Per Person for Stilt Floor	2013.617	/	3.00	=	671	Person
	Population @ 6 Sqm. Per Person for Upper Floor	2453.725	/	6.00	=	409	Person
	20% Staff / Shopkeepers @ 45 lpcd	178	x	45.00	=	8010	Lit.
	80% Visitors @ 15 lpcd	864	x	15.00	=	12960	Lit.
		Total Water Requirement			=	22.050	Lit.
					Say	**23.50**	KL
iii	Maintenance Staff (Such as Gardener, ESS Staff, Security Guards etc.)				=	200	Person
	Water Requirement 45 Lit. / day	200	x	45	=	9000	Lit.
					Say	**9.00**	KL
iv	Filter Back Wash L.S.					15.00	KL
					Say	**15**	**KL**
v	Floating Population 10% of Population	4000	x	10%	=	400	Person
	Daily requirement @ 15 lpcd	400	x	15.00	=	5993	Lit.
		Total Water Requirement			=	5993	Lit.
					Say	**6.00**	KL
	Total Commercial Water Requirement Per Day (i+ii+iii+iv)				=	66.03	KL
	Total Commercial Daily Water Requirement			**Say (B)**		**66**	**KL**

B)	**Horticulture & Road Side Plantation**						
i	Area under Green Area (Sqm.)	3195					
	Water Requirement 6.18 Litre/Sqm./day	3195	x	6.18	=	19745	Lit.
		Total			=	19745	Lit.
					Say	20.00	KL
ii	Area under road & paved Area (Acre)	2.66					
	Water Requirement 5 KL/Acre/day	2.66	x	5.00	=	13	KL
					Say	13.00	KL
	Total Treated Water Requirement (i + ii)				=	33.00	KL
				Say (C)		**33**	**KL**
	The demand of Horticulture & Road work will meet from recirculated water after treatment at S.T.P.						
C)	Total Water demand (A+B)					756	KL
					Say	**756.00**	**KL**
	Domestic Water demand						
	65% of (A) + 35% of (B=i+ii+iii+v) + 100% of (B=iv)					481	KL
					Say	481	KL
	Flushing Water demand						
	35% of (A) + 65% of (B=i+ii+iii+v)					275	KL
					Say	275	KL
D)	**Sewage Treatment Plant Capacity**						
	Average Sewerage Contribution Considering 75% of AV domestic water demand & 75% of AV flushing demand				=	567	KL
					Say	**570**	**KL**
E)	**Tube wells :-**						
	Assuming working hours of Tube Well					16	Hours
	Assuming discharge / hour of each Tube Well					27.00	KL/Hour
	Total domestic water demand					481	KL
	No. of Tube wells required = 481 / 16 x 27					1.11	Nos.
	Add 10% Stand bye					0.11	Nos.
					Total	1.23	Nos.
					Say	**2**	Nos.
	It is proposed to provide 2 nos. Tube wells. (1 Working + 1 Standby). Moreover, the water demand for horticulture purposes is to meet from recirculated water after treatment at STP and ultimate water supply is to be provided by HUDA.						

F)	**Pumping Machinery for Tube wells :-**						
	Gross working head					45	M.
	Average fall in spring level					5.00	M.
	Depression head					5.00	M.
	Friction loss in main + Positive Head					10.00	M.
					Total	65.00	M.
					Say	70	M.
	BHP = (27000 x 70 x 1) / (60 x 60 x 75 x 0.60)					11.67	HP
					Say	**12.0**	HP
G)	**Under Ground Tank :-**						
	Daily Water Requirement					481	KL
	Taking16 hours storage = 481 x 16 / 24					320.91	KL
					Say	**320**	KL
	Fire Tank provided as per NBC Norms					200	KL
	It is proposed to provide an UGT of capacity 500 KL. Having 150 KL for treated water, 150 KL for Raw water and 200 KL for Fire						
H)	**Boosting Machinery :-**						
	Daily Water Requirement					300	KL
	Assuming working hours					8	Hours
	By providing one set of pumping at 8 Hrs of pumping.					1	Nos.
	The pumping capacity = 300 / 8					37.5	KL/Hr
	However, it is proposed to provide					630	LPM
	Gross Working Head :-						
	i) Suction lift					6.0	M.
	ii) Delivery head					5.0	M.
	iii) Friction loss in main & Specials + Positive head					8.0	M.
	iv) Clear head (OHT height)					81.9	M.
	v) Add 10% for wear / tear					8.2	M.
					Total	109.1	M.
					Say	110	M.
	HP = (630 x 110x 100) / (60 x 110 x 70)					25.66	HP
					Say	**26**	HP
	It is proposed to provide 2 Nos. of motors of 26 HP. (1 W + 1 S) sets of 630 LPM discharge at 110 Head for domestic supply						

I)	**Under Ground Flushing Water Tanks (From STP)**						
	Average Water demand					756	KL
	Flushing Water demand					275	KL
	Horticulture Water demand					33	KL
					Total	308	KL
	Assuming working hours					8	Hours
	By providing one set of pumping at 8 Hrs of pumping.					1	Nos.
	The pumping capacity = 308/ 8					38.5	KL/Hr
	However, it is proposed to provide					641	LPM
	Gross Working Head :-						
	i) Suction lift					6.0	M.
	ii) Delivery head					5.0	M.
	iii) Friction loss in main & Specials + Positive head					8.0	M.
	iv) Clear head (OHT height)					81.9	M.
	v) Add 10% for wear / tear					8.2	M.
					Total	109	M.
					Say	110	M.
	HP = (590 x 75x 100) / (60 x 75 x 70)					22.4	HP
					Say	23	HP
	It is proposed to provide 2 Nos. of motors of 23 HP. (1 W + 1 S) sets of 641 LPM discharge at 110 Head for flushing supply						
J)	**Capacity of Generator Set**						
	(i) Booster Machinery (For Domestic Water)	2	No.	26	HP	52	HP
	(ii) Tube Well	2	No No	12	HP	24	HP
	(iii) Booster Machinery (For Flushing Water)	2	No	23	HP	46	HP
	(iv) Lighting					8	HP
					Total	130	HP
	Total KVA =	130 x 0.746 x 1.5 =				145	KVA
					Say	**145.0**	**KVA**
	Hence, 145 KVA capacity D.G. Set to be added to provide Standby supply						

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FINAL ABSTRACT OF COST

Sl No		DESCRIPTION		AMOUNT (In Lacs.)
1	Sub Work No.I	Water Supply Scheme	Rs.	149.57
2	Sub Work No.II	Sewerage Scheme	Rs.	180.00
3	Sub Work No.III	Storm Water Drainage.	Rs.	55.00
4	Sub Work No.IV	Road	Rs.	108.33
5	Sub Work No.V	Street Lighting.	Rs.	17.76
6	Sub Work No.VI	Horticulture.	Rs.	16.20
7	Sub Work No.VII	Maintenance Charges for 10 Years including Resurfacing of Roads after Ist 5 year & IInd 5 years of mtc	Rs.	174.27
		TOTAL COST	**Rs.**	**701.12**
		Cost / Gross Area (In lacs. / Acre)	**Rs.**	**121.30**
				Lacs.

PROJECT - AAFFORDABLE GROUP HOUSING COLONY ON LAND MEASURING 5.7875 ACRES (LICENSE NO. 43 OF 2021) IN THE REVENUE ESTATE OF VILLAGE ULLAWAS,SECTOR 62,				
Sub Work No.I		**WATER SUPPLY ABSTRACT OF COST**		
Sl No		**DESCRIPTION**		**AMOUNT (In Lacs.)**
1	Sub Head No. I	Head Works	Rs.	50.81
2	Sub Head No. II	Pumping Machinery	Rs.	26.50
3	Sub Head No. III	Rising Mains	Rs.	2.82
4	Sub Head No. IV	Distribution System	Rs.	17.33
		TOTAL	**Rs.**	**97.46**
		Add 3% contingencies & P E charges	**Rs.**	**2.92**
		TOTAL	**Rs.**	**100.38**
		Add 49% Departmental, price escalation, unforeseen & adm charges	**Rs.**	**49.19**
		TOTAL COST	**Rs.**	**149.57**
				Lacs.

PROJECT - AAFFORDABLE GROUP HOUSING COLONY ON LAND MEASURING 5.7875 ACRES (LICENSE NO. 43 OF 2021) IN THE REVENUE ESTATE OF VILLAGE ULLAWAS,SECTOR 62, DIST. GURUGRAM -						
Sub Work No.I		**Water Supply**				
Sub Head No. I		**Head Works**				
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Boring and installing 200 mm i/d tubewell with reverse rotary rig complete with pipe and strainer to depth of about 45 m in all respect 2 Nos. @ Rs. 5,00,000/- each				Rs.	10.00
2	Provision for Rising Main connecting Bore well with Water main and Bye pass arrangement					
	80 mm dia. D.I. Pipe	101	@	1050	Rs.	1.06
3	Providing Boosting arrangement by pumps (26 HP) (capacity 630 lpm at 110 M head, 2 nos. @ Rs. 225000/- each (For UGT) complete with Panel, Foundation etc.				Rs.	4.50
4	Provision for carriage of materials and other unforseen items				Rs.	1.00
5	Construction of U.G. tanks of total cap. (500 KL) including 200 KL for Fire, 300 KL for Domestic @ Rs. 3500/ KL				Rs.	17.50
6	Provision for borewell chamber of size 1.5 x 1.5 x 1.5 m For Housing borewell 2 Nos. @ Rs.50000/- each				Rs.	1.00
7	Provision for footpath, lawn etc. at Tube Well site i/c water works				Rs.	2.00
8	Construction of boundary wall arround Tube Well				Rs.	1.00
9	Construction of boring chambers				Rs.	5.00
10	Provision for staff quarters for mtc staff				Rs.	7.75
	TOTAL				**Rs.**	**50.81**
						Lacs.

SYNERGY SHINE INFRA 62 GGN			
RISING MAIN (FROM BOREWLL TO UGT)			
S. No.	Node		
	From	To	80 mm dia.
1	B1	B2	75
2	B2	B3	4
3	B2	B4	4
4	B4	B5	4
5	B4	B6	6
6	B6	B7	4
	B4	B5	4
TOTAL LENGTH			101

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Sub Work No. I		**Water Supply**	
Sub Head No. II		**Pumping Machinery**	
Sl No	**DESCRIPTION**		**AMOUNT (In Lacs.)**
1	Providing and installing electricity driven Submersible pumping set capable of delivery about 27 KL / Hr. of water against a total Head of 70 M complete with motor and other accessories, 2 No @ 2,00,000/-	Rs.	4.00
2	Providing and installing electricity driven boosing pumping set capable of delivery about 450 LPM of water against a total Head of 70 M complete with motor and other accessories, 2 No @ 3,00,000/-	Rs.	6.00
3	Provision for diesel engine genset each for standby arrangements for T.W. of booster pump complete with gear head arrangement. - 1 No. 145 KVA	Rs.	11.50
4	Providing for chlorination plant complete. 1 No @ 50,000/-	Rs.	0.50
5	Provision for making foundations and erection of Pumping machinery.	Rs.	1.00
6	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.)	Rs.	1.50
7	Provision for electric services connection including electric fitting for tube wells & boosting chamber etc. 1 set (L.S.)	Rs.	1.00
8	Provision for carriage of material and unforeseen item. L.S.	Rs.	1.00
	TOTAL	**Rs.**	**26.50**
			Lacs.

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Sub Work No. I					**Water Supply**	
Sub Head No. III					**Rising Mains from HUDA**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Providing, laying, jointing & testing 80 mm dia. D.I pipe lines including cost of excavation complete in all respects.	95	@	1050	Rs.	1.00
2	Providing and fixing 80 mm dia. sluice valves including cost of surface boxes and masonary chambers etc., complete in all respects.	0	@	10000	Rs.	0.20
3	Providing and Fixing indicating plates for sluice valves, air valves and fire hydrants.	2	@	1000	Rs.	0.02
4	Provision for carriage of material and other unforeseen item. L.S.				Rs.	0.50
5	Provision for making connection with HUDA main (L.S.) 1 job				Rs.	0.50
6	Provision for cutting road, making good the same L.S.				Rs.	0.60
	TOTAL				**Rs.**	**2.82**
	SAY				**Rs.**	**2.82**
						Lacs.

Material statement of HUDA Rising Mains

Sl No	**Name of Line**	**Length of 80 mm dia. Pipe**	**Rate**	**AMOUNT (In Lacs.)**
1	M1 to M2	5		5
2	M2 to M3	90		90
	TOTAL			**95**

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Sub Work No. I					**Water Supply Dom.+Flushing**	
Sub Head No. IV					**Distribution system**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.					
	65 mm I/D	178	@	850	Rs.	1.51
	80 mm I/D	417	@	1050	Rs.	4.38
	100 mm I/D	262	@	1250	Rs.	3.28
2	Providing, laying, jointing and testing. PVC pipe line confirming to I.S 4985 including cost of excavation etc., complete in all respects					
	20 mm O/D	20	@	200	Rs.	0.04
	65 mm O/D	770	@	650	Rs.	5.01
	80 mm O/D	7	@	700	Rs.	0.05
3	Providing and Fixing sluice valves including cost of brick masonry chamber complete in all respect.					
	80 mm I/D	2	@	10000	Rs.	0.20
	100 mm I/D	1	@	12000	Rs.	0.12
4	Providing and Fixing Fire Hydrant complete with masonry chamber.				Rs.	1.00
5	Providing and Fixing air valves and scour valves including cost of brick masonry chamber complete.	2	@	10000	Rs.	0.20
6	Providing and Fixing indicating plates for valves	5	@	1000	Rs.	0.05
7	Provision for carriage of material & other foreseen items etc., (L.S). 1 jobs				Rs.	0.50
8	Provision for cutting road and making good the same (L.S.) 1 jobs				Rs.	0.50
9	Provision for Irrigation hydrants 20 / 25 mm				Rs.	0.50
	TOTAL				**Rs.**	**17.33**
	SAY				**Rs.**	**17.33**
						Lacs.

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Sub Work No. II					**Sewerage Scheme**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Providing, jointing, cutting and testing. S.W pipe class 'A' 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 2.0 M	558	@	1250	Rs.	6.98
	250 mm I/D Avg. depth upto 2.5 M	75	@	1700	Rs.	1.28
2	Provision for lighting and watching L.S				Rs.	0.50
3	Provision for timbering and shoring L.S.				Rs.	1.00
4	Provision for temporary connection with HUDA				Rs.	1.00
5	Providing Boosting arrangement by pumps for Flushing water supply (23 HP) (capacity 641 lpm at110 M head, 2 nos. @ Rs. 225000/- each (For UGT) complete with Panel, Foundation etc.				Rs.	4.50
6	Provision for making STP @ 570 KLD				Rs.	100.00
7	Provision for carriage of material & other foreseen items etc., (L.S). 1 jobs				Rs.	1.00
8	Provision for cutting road, making good the same in original condition (L.S.)				Rs.	1.00
	TOTAL				**Rs.**	**117.25**
	Add 3% contingencies & P E charges				**Rs.**	**3.52**
	TOTAL				**Rs.**	**120.77**
	Add 49% Departmental, price escalation, unforeseen & adm charges				**Rs.**	**59.18**
	TOTAL				**Rs.**	**179.94**
	SAY				**Rs.**	**180.00**
						Lacs.

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Sub Work No. III					**Drainage Scheme RCC Main Pipe Drain**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Providing, lowering, laying and jointing R.C.C NP-3 pipes and specials with cement joints in trenches including manholes, chambers etc., excavation, back filling and disposal of surplus earth complete in all respects.					
	400 mm I/D Avg. depth upto 1.5 M.	672	@	2500	Rs.	16.80
2	Provision for Road Gullies L.S. with pipe connection	LS			Rs.	1.50
3	Provision for lighting and watching				Rs.	0.50
4	Provision for timbering and shoring L.S.				Rs.	1.00
5	Provision for carriage of material & other foreseen items etc. the same (L.S.) 1 jobs				Rs.	0.50
6	Provision for Rain water harvesting arrangements 6 Nos. @ 2.0 lakh/each				Rs.	12.00
7	Provision for temporary connection with HUDA				Rs.	1.00
8	Provision for temporary disposal arrangement till HUDA services are provided (L.S.)				Rs.	1.50
9	Provision for cutting road, making good the same in original condition (L.S.)				Rs.	1.00
	TOTAL				**Rs.**	**35.80**
	Add 3% contingencies & P E charges				**Rs.**	**1.07**
	TOTAL				**Rs.**	**36.87**
	Add 49% Departmental, price escalation, unforeseen & adm charges				**Rs.**	**18.07**
	TOTAL				**Rs.**	**54.94**
	SAY				**Rs.**	**55.00**
						Lacs.

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Sub Work No. IV		**Roads Work**

	Width of Road	**Length of Road (in Mtrs.)**	**Metalled Width (Mtrs.)**	**Area in Sqm.**
	A	**B**	**C**	**B x C**
	6.0 M Wide	788	5.8	4570
				4570
			Add 10% curves	457.0
			Total Area	5027.4
			Say	**5050**
				Sqm.

	Total Length	788	
	Add 10% curves	78.8	
	Total Length	866.8	
	Say	**870**	
		Mts.	

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Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acre)	1.290	@	100000	Rs.	1.29
2	Construction of road of hardly by providing: Provision for Granular sub base 200 mm, 250 mm thick stone aggregate, 50 mm thick B.M. 40 mm thick pre mix carpet with seal coat	5200	@	1200	Rs.	62
3	Provision for Kerbs & channels of CC 1:2:4	900	@	600	Rs.	5
4	Provision of Guide map & other unforsean & indicator boards L.S				Rs.	0.50
5	Provision for traffic lights arrangement (L.S.)				Rs.	0.50
6	Provision for carriage of material & other foreseen items etc. the same (L.S.) 1 jobs				Rs.	0.50
	TOTAL				**Rs.**	**70.59**
	Add 3% contingencies & P E charges				**Rs.**	**2.12**
	TOTAL				**Rs.**	**72.71**
	Add 49% Departmental, price escalation, unforeseen & adm charges				**Rs.**	**35.63**
	TOTAL				**Rs.**	**108.33**
	SAY				**Rs.**	**108.33**
						Lacs.

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Estimate for Provision of Street Lighting

Sub Work No. V					**Street Lighting**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Providing street lighting on roads as per standard specifications on HVPN with LED.					
	Area = 5.78 Acre	5.780	@	200000	Rs.	11.56
	TOTAL				**Rs.**	**11.57**
	Add 3% contingencies & P E charges				**Rs.**	**0.35**
	TOTAL				**Rs.**	**11.92**
	Add 49% Departmental, price escalation, unforeseen & adm charges				**Rs.**	**5.84**
	TOTAL				**Rs.**	**17.76**
	SAY				**Rs.**	**17.76**
						Lacs.

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Sub Work No. VI					**Plantation & Road Side Trees**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Development of Lawn Area :-					
	a) Trenching the ordinary soil upto depth of 60 cm. including removal and packing of serviceable material and disposing at a lead of 50 M. and making up the trenched area to proper level by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure.					
	b) Rough dressing of trenched area.					
	c) Grassing with "doob grass" including watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in rows 7.50 cm. apart in either direction, including for hedges and grills and barred wire fencing around park and green					
	Area = 5.78 Acre	5.780	@	150000	Rs.	8.67
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	870				
	Trees @ 12 M. c/c	73				
	Say (2x73) = 145	145				
	Cost of One Tree :-					
	Excavation (Rs.) 60/-					
	Manure (Rs.) 90/-					
	Tree Plants (Rs.) 150/-					
	Tree Guards (Rs.) 1000/-					
	Total Cost (each)			1300		
	Cost of Total trees	145	@	1300	Rs.	1.89
	TOTAL				**Rs.**	**10.56**
	Add 3% contingencies & P E charges				**Rs.**	**0.32**
	TOTAL				**Rs.**	**10.87**
	Add 49% Departmental, price escalation, unforeseen & adm charges				**Rs.**	**5.33**
	TOTAL				**Rs.**	**16.20**
	SAY				**Rs.**	**16.20**
						Lacs.

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Sub Work No. VII					**MTC. Charges and Resurfacing of Roads**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs.)**
1	Provision for maintenance charges for water supply, sewerage, storm water, drainage, roads, street light, Hort., etc. complete including operation & establishment charges as per HUDA norms for 10 years completion.					
	Area = 5.78 Acre	5.780	@	750000	Rs.	43.35
2	Provision for resurfacing of roads after first five years of maintenance one layer of 100mm thick WBM compacted to 75 mm thick with 25mm thick premix carpet with seal coat. (Sqm)	5200	@	600	Rs.	31.20
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 25mm thick premix carpet with seal coat with mechanical paver. (Sqm)	5200	@	750	Rs.	39.00
	TOTAL				**Rs.**	**113.55**
	Add 3% contingencies & P E charges				**Rs.**	**3.41**
	TOTAL				**Rs.**	**116.96**
	Add 49% Departmental, price escalation, unforeseen & adm charges				**Rs.**	**57.31**
	TOTAL				**Rs.**	**174.27**
						Lacs.