

**EXTERNAL DEVELOPMENT WORKS
DESIGN
& COST ESTIMATES**

FOR

**ROPOSED BUILDING PLAN OF REIDENTIAL GROUP
HOUSING COLONY OVER AN AREA MEASURING 5.1375
ACRE (LICENSE NO. 62 OF 2025 DATED 01-05-2025) IN
SECTOR 103, GURUGRAM BEING DEVELOPED BY
BABBLER PROJECTS PVT. LTD. AND AIPL BHARAT
INFRASTRUCTURE PRIVATE LIMITED IN COLLABORATION
WITH AIPL BHARAT INFRASTRUCTURE PRIVATE LIMITED.**

IN

**SECTOR – 103,
AT GURUGRAM, HARYANA**

DEVELOPED BY

AIPL Bharat Infrastructure Pvt. Ltd.



Pooja Nikhar
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CA/2012/55585**

REPORT

1. Water Supply Source

The source of water supply shall be HUDA water supply connection. It has been proposed to construct underground tank will be filled up from the riser and then pumped to the overhead water tank of each tower.

2. Pumping Equipment

It has been proposed to install pumping set as described with standby of equal capacity.

The provision for standby generating set has been provided in case of any electricity failure. Generator will be provided separately or added to the capacity of main generator.

3. Sewerage

The scheme is designed for sewer connection to the proposed sewerage treatment. The sewerage system has been marked on the respected plans.

The sewer line has been designed for 3 times average DWR in relation to the water supply demand assuming that 80% for the domestic water supply shall finds its way into the proposed sewer SW pipe/DWC sewer have been proposed to run half full. The sewer has been designed on 2.5 ft per second velocity i.e. self-cleaning velocity.

Necessary design statement for entire sewerage system has been prepared and attached with estimate.

4. Storm water Drainage

The storm water drain is being designed to carry 6.35 mm rainfall per hour. Also, suitable provisions are contemplated in our scheme to ensure better recharging of underground water table in area RCC NP3 pipe drain with minimum 400 mm dia. is proposed in this area.

5. Roads

Cost of road has been taken in the estimate.

6. Street lighting

Provisions of street lighting on surrounding area has been made.

7. Horticulture

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

8. Specification

The work will be carried out in accordance with the standard specifications of PH is laid down by the HUDA/ Haryana government

9. Rates

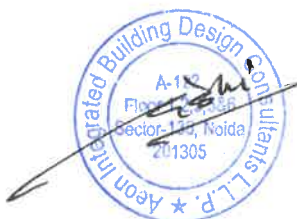
Estimate for providing services in this site has been prepared on the recent market rates.

10. Cost

The total cost of development in this revised project including various PH & B & R services work to Rs. 622.16 Lacs which include 3% contingencies and PE charges and 49% department charge also.

Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbler projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited.

(Authorized Signatory)



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DESIGN CALCULATION

1. Daily requirement		
(i). Nos of Dwelling units for Tower- 1	= 172 Nos.	
Population per plot @5	= 860 Persons.	
(iii). Nos of Dwelling units for Tower- 2	= 172 Nos.	
Population per plot @5	= 860 Persons.	
(iii). Service Personal for Tower- 2	= 35 Nos.	
Population per plot @3	= 105 Persons.	
(iv). Nos of Dwelling units for EWS	= 61 Nos.	
Population per plot @2	= 122 Persons.	
(v). Amenities area water demand (L.S)	= 5.0 KL	
(viii). Convenient Shops water demand (L.S)	= 5.0 KL	
(ix). Filter Back wash (L.S)	= 10.0 KL	
Water Demand = (vii) + (viii) + (ix)	= 20 KL..... (A)	
Total population = (i) + (ii) + (iii) + (iv) + (v) + (vi)	= 1947 Persons.	
Water requirement for plots @ 172.5 liters/head/day	= 1947 X 172.5 Liters	
	= 335858 Liters.	
	= 335.8 KL..... (B)	
Total Water Demand A+B	= 355.8 KL	
	SAY = 355 KL (i).	
Total water demand	= 355 KL	
For domestic use	= 355 KL	
2. Area under parks/green space		
Area = 9609 sqm		
Total area	= 2490 sqm	
	= 0.6152 Acres	
Therefore, daily water @ 25000 liter/Acre Requirement	= 0.6152 X 25000 Liter	
	= 15380 Liter	
	= 15.38 KL	
	SAY = 15.0 KL..... (ii).	
3. Area under roads		
Total area	= 1.1218 Acres	
Therefore, daily water @ 5000 liter/Acre Requirement for sweeping of roads	= 1.1218 x 5000 Liter	
	= 5609 Liter	
	= 5.8 KL	
	SAY = 5.0 KL..... (iii).	

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Total daily requirement

a). For domestic use (i)	= 355 KL
b). Under parks & roads (ii) + (iii)	= 20 KL
c). Assuming requirement for flushing as 33% of total domestic requirement, then daily water requirement for flushing.	= 120 KL
d). Total requirement of portable water = 355 KL – 120 KL	= 235 KL
Proposed	= 400 KL
We Proposed Total Under Ground tank for all towers	= 400 KL

Underground Storage Tank (Drinking water)

Daily requirement for domestic

Capacity of underground tank	= 235 KL
SAY	= 400 KL

Firefighting demand	200 + 200 = 400 KL
Proposed (including water curtain system)	= 700 KL

But it is proposed to construct underground tank of 200 KL for raw water in two compartment, 200 KL for domestic use in two compartment, 145 KL of non-potable water in two compartment and 700 KL (for firefighting purpose in four compartments as the locations shown in the plan i.e. **total 1300 KL.**

Domestic tank	100 KL + 100 KL	= 200 KL
Raw water	100 KL + 100 KL	= 200 KL
Flushing water	100 KL + 100 KL	= 200 KL
Fire water	175KL +175 KL+ 175 KL + 175 KL	= 700 KL
Total		= 1300 KL.

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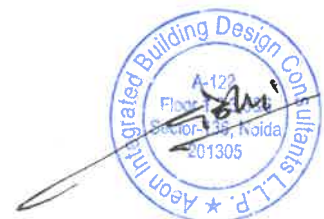


Boosting machinery (Drinking water)

Daily requirement for domestic use	= 235 KL
Assuming 8 hours running 2 pumps (with one stand by)	= 235/2x8= 14.68 KL/HR
	= 244.66 LPM
Say	= 245 LPM

Head of pump

i) Suction Lift	= 9.0 M
ii) Friction loss in main and special	= 15.0 M
iii) Clear Head	= 200.0 M
	= 224.0 M
Say	= 225.0 M



HP of Morter = 245x225/ 60x75x0.60
 = 20.41 HP
 Say = 25.0 HP Each

It is proposed to provide 1 no. of pumping set of 245 liters per minutes at a total load of 225.0 m (2working + 1 standby).

Underground storage tank (Flushing water)

Daily requirement for flushing at STP = 120 KL

Boosting machinery for flushing water supply

Assuming 8 hours running 2 pumps (with one stand by) = 120 /2x8= 7.5 KL/HR
 = 125 LPM
 Say = 125 LPM

HP of the pumps = 125 x 225/ 60x75x0.60
 = 10.41 HP
 Say = 12.5 HP Each

Capacity of the STP = 530 KL /day
 Fow to STP 80% = 440 KLD
 20% extra as per MOEF = 440 X 20% = 528 KLD,

But We Proposed Capacity of the STP = 530 KL

It is proposed to provide 1 no. of pumping set of 155 liters per minutes at a total load of 225.0 m (2working + 1 standby)

Boosting machinery for Irrigation water supply = 15 KL

Assuming 4 hours running 2 pumps (with one stand by) = 15 /2 x 4= 1.87 KL/HR
 = 31.166 LPM
 Say = 35 LPM

Head of pump

iv) Suction Lift = 9.0 M
 v) Friction loss in main and special = 15.0 M
 vi) Clear Head = 35.0 M
 = 59.0 M
 Say = 60.0 M

BHP of the pumps = 35 x 60/ 60 x75x 0.60
 = 0.77 HP
 Say = 1 HP Each

It is proposed to provide 1 no. of pumping set of 35 liters per minutes at a total load of 60.0 m (2 working + 1 standby)



Multistage and Multioutlet pumps For Fire Protection

S.NO	Parameters	Location	Pumps set		
			Main	Diesel	Jockey
1	Discharge in LPM	Pump Room	2850 LPM	2850 LPM	180 LPM
2	Head in Meters	Pump Room	210-170-125-90	210-170-125-90	210-170-125-90
3	HP	Pump Room	240 HP	240 HP	15 HP
4	Quantity in Nos	Pump Room	2	2	2
5	Water curtain pump	Pump Room	4550 LPM (1no.)	4550 LPM (1no.)	
6	Water curtain pump head	Pump room	45 M	45 M	

Rating of generator set = 77 HP
 Pumps 2 Nos + 2 (25 HP + 12.5 HP+ 1 HP)

Capacity of generator set = 77 X 0.746 X 1.50 KVA
 = 86.163 KVA
 Add 10 % extra = 8.61 KVA
 Total = 94.77 KVA
 Say = 95.0 KVA



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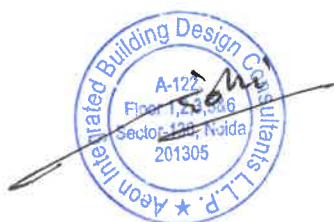
ESTIMATE FOR DEVELOPMENT OF INTERNAL SERVICES

PROJECT :- ROPOSED BUILDING PLAN OF REIDENTIAL GROUP HOUSING COLONY OVER AN AREA MEASURING 5.1375 ACRE (LICENSE NO. 62 OF 2025 DATED 01-05-2025) IN SECTOR 103, GURUGRAM BEING DEVELOPED BY BABBLER PROJECTS PVT. LTD. AND AIPL BHARAT INFRASTRUCTURE PRIVATE LIMITED IN COLLABORATION WITH AIPL BHARAT INFRASTRUCTURE PRIVATE LIMITED.

FINAL ABSTRACT OF COST

Sl.No.	Head No.	Particular	Amount in Lacs
1	SUB WORK No. I	WATER SUPPLY & FIRE FIGHTING	321.13
2	SUB WORK No. II	SEWERAGE SCHEME	144.02
3	SUB WORK No.III	STORM WATER DRAINAGE	55.59
4	SUB WORK No. IV	ROADS & FOOTPATH	64.98
5	SUB WORK No. V	STREET LIGHTING	3.01
6	SUB WORK No. VI	HORTICULTURE	4.38
7	SUB WORK No. VII	MAINTENANCE CHARGES (INCLUDING RESURFACING OF ROADS FOR 10 YEARS AS PER NORMS)	29.05
		Total	622.16
		Say (Lacs)	622
	Cost per Acre		<u>622 Lacs</u> 5.1375 Acre
	Net Cost Per Acre		121.10 Lacs

AUTHORISED SIGNATORY



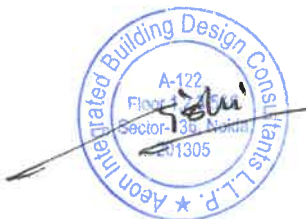

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Sub Work No. IWater Supply & Fire Fighting

Project :-Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbar projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Abstract of Cost for Water Supply & Fire Fighting Works

Sl.No.	Head No.	Particular	Amount in Lacs
1	SUB HEAD No. 01	HSVP RISING MAIN	8.60
2	SUB HEAD No.02	PUMPING MACHINERY	163.30
3	SUB HEAD No.03	DISTRIBUTION SYSTEM	15.16
4	SUB HEAD No.04	FIRE RISING MAIN	22.19
		Total	209.25
		Add 3 % contingencies & PE charges.	6.28
		Total	215.52
		Add 49 % Departmental charges, Price escalation,unforseen,Admin. Charges.	105.61
		Total	321.13
		C/O. to final abstract of cost (say in Lacs)	321.13



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Sub-Work No. I
Sub Head No. 02

Water Supply & Fire Fighting
(Rising Main)

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babblers projects pvt. Ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing , laying , jointing and testing pipe lines including Cost of excavation etc. complete in all respects.				
a)	100 mm dia. DI pipe	Meter	220	1,460	3,21,200
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respects.				
a)	100 mm dia.	No.s	2	20,000	40,000
3	Providing and fixing indicating plates for sluice valve and air Valves.	No.s	2	2,000	4,000
4	Providing and fixing air release valve and scour valve .	No.s	2	10,000	20,000
5	Provision for carriage for materials and other unforeseen items.	L.S			75,000
6	Making Water Supply Connection with HUDA line including water meter.	L.S			2,00,000
7	Provision for cutting of roads and making good to its original Conditions.	L.S			2,00,000
Total Cost					8,60,200
C/O To Abstract of Cost for Sub work No. I (in Lacs)					8.60



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Sub Work No. I

Water Supply & Fire Fighting

Sub Head No. 01

Pumping Machinery

Project :-Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbar projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing and installing (Domestic water hydropneumatic pump) electricity driven pumping Set capable of delivering about 370 LPM of water against a total Head of 160 M complete with motor and other accessories (25 HP). 1 Nos.(2W+1SB)	No.	1	3,50,000	3,50,000
2	Providing and installing (Flushing water hydropneumatic pump) electricity driven pumping Set capable of delivering about 185 LPM of water against a total Head of 160 M complete with motor and other accessories (12.50 HP). 1 Nos.(2W+1SB)	No.	1	2,50,000	2,50,000
3	Providing and installing (Irrigation water hydropneumatic pump) electricity driven pumping Set capable of delivering about 115 LPM of water against a total Head of 35 M complete with motor and other accessories (1 HP). 1 Nos.(2W+1SB)	No.	1	1,75,000	1,75,000
4	Providing and installing Fire pumping set of following capacities.				
i).	Main Electric Hydrant & Sprinkler pump 2850 lpm at 210 M head	No.	2	8,50,000	17,00,000
ii).	Main Electric Jockey Pump 180 lpm at 210 M head	No.	2	3,00,000	6,00,000
iii).	Diesel Pump for Hydrant & Sprinkler 2850 lpm at 210 M head	No.	2	12,00,000	24,00,000
iv).	4550 lpm at 45 M head (Water Curtain Diesel pump)	No.	1	7,00,000	7,00,000
v).	4550 lpm at 45 M head (Water Curtain Electric pump)	No.	1	4,50,000	4,50,000
vi).	900 lpm at 35 M head (Terrace pump for each tower)	No.	3	1,50,000	4,50,000
5	Provision for boosting chamber as per PH requirement of suitable size.	LS		5,00,000	5,00,000
6	Provision for chlorination plant complete.	No.	1	2,00,000	2,00,000
7	Provision for making foundations and erection of Pumping Machinery:	LS		5,00,000	5,00,000
8	Provision for pipes, valves and specials inside boosting chamber.	LS		4,00,000	4,00,000
9	Construction of U.G. tanks 1300 KLD(700 KLD Fire+200 KLD Raw+ 200 KLD Domestic+200KLD Flushing) (Civil Works)	KLD	1300	5,500	71,50,000
10	Provision for carriage of material and other unforeseen Items etc.	LS		5,00,000	5,00,000

Total Cost 1,63,25,000

C/O To Abstract of Cost for Sub work No. I (in Lacs)

163.30



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Sub Work No. I
Sub-Head No. 03

Water Supply & Fire Fighting
Distribution System
(Domestic & Flushing water)

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbar projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing , Fixing , jointing and testing G.I pipe line running at basement ceiling level including Fittings, valves, etc. complete in all respect. (water supply).				
a)	150 mm dia.	Meter	22	1,700	37,400
b)	100 mm dia.	Meter	20	1,250	25,000
c)	80 mm dia.	Meter	104	950	98,800
d)	65 mm dia.	Meter	27	800	21,600
e)	50 mm dia.	Meter	88	750	65,700
f)	40 mm dia.	Meter	0	580	-
g)	32 mm dia.	Meter	121	450	54,450
h)	25 mm dia.	Meter	141	350	49,350
2	Provision for carriage of materials and other unforeseen items.	L.S		1,00,000	1,00,000
3	Providing and fixing valves including chamber complete in all respects.				
a)	100 mm dia.	No.s	0	12,000	-
b)	80 mm dia.	No.s	2	10,000	20,000
c)	65 mm dia.	No.s	2	8,500	17,000
d)	50 mm dia.	No.s	2	7,000	14,000
4	Providing and fixing air release valve and scour valve including carriage of brick mansary.	L.S		2,00,000	2,00,000
5	Providing, laying, jointing and testing uPVC pipe line conforming to I.S 4985 including cost of excavation etc., complete in all respects.				
a)	50 mm dia.	Meter	770	975	7,50,750
b)	25 mm dia.	Meter	50	250	12,500
6	Providing and fixing Irrigation hydrant valve complete in all respect.	Nos.	27	2,000	54,000
7	Providing & fixing ball valve 25 mm	Nos.	27	250	6,750
8	Providing & fixing sluice/Butterfly valve complete with chamber.				
a)	50 mm dia.	Nos.	4	6,500	26,000

Total Cost

15,15,900

C/O To Abstract of Cost for Sub work No. I (in Lacs)

15.16



Sub Work No. I

Sub-Head No. 04

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babblers projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Water Supply & Fire Fighting

External Fire Hydrant

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing , Laying , jointing and testing M.S. pipes lines for fire rising main including cost of fittings, valves, connection etc. complete in all respect. (Along the basement out side retaining wall)				
a)	150 mm dia.	Meter	850	2,040	17,34,000
b)	100 mm dia.	Meter	10	1,550	15,500
c)	80 mm dia.	Meter	100	1,000	1,00,000
2	Providing & fixing Fire brigade Inlet and draw out connection complete in all respect				
a)	150 mm dia.	No.s	2	15,000	30,000
b)	100 mm dia.	No.s	1	15,000	15,000
3	Providing & fixing sluice/Butterfly valve complete in all respect.				
a)	150 mm dia.	No.s	3	15,000	45,000
4	Providing & fixing Fire Hydrant complete in all respect.	No.s	12	15,000	1,80,000
5	Providing for carriage of material as other unforeseen items.	L.S			75,000
6	Providing and fixing indicating plates for sluice valve and air Valves.	No.s	12	2,000	24,000
Total Cost					22,18,500

C/O To Abstract of Cost for Sub work No. I (in Lacs)

22.19



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SUBJECT :MATERIAL STATEMENT OF DOMESTIC WATER SUPPLY SYSTEM

Sl. No.	Name of the Node	Length in Meter		Dia. of Pipe		150 mm dia.	100 mm dia.	80 mm dia.	65 mm dia.	50 mm dia.	40mm dia.	32 mm dia.	25 mm dia.
		m	mm	m	mm	m	m	m	m	m	m	m	m
1	2	3	4	5	6	7	8	9	10	11	12		
1	PLANTROOM-DWS-1	22	150	22	-	-	-	-	-	-	-	-	-
2	DWS-1 - EWS	121	32	-	-	-	-	-	-	-	121	-	-
3	DWS-1 - DWS-2	20	100	-	20	-	-	-	-	-	-	-	-
4	DWS-2 - T-2	26	80	-	-	26	-	-	-	-	-	-	-
5	DWS-2 - DWS-3	54	80	-	-	54	-	-	-	-	-	-	-
6	DWS-3 - T1	24	80	-	-	24	-	-	-	-	-	-	-
	TOTAL	267		22	20	104	0	0	0	0	121	0	0



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Sub Work No. I

Project :- Group Housing Colony Under TOD Policy 2016 Bearing LICENCE NO. 72 OF 2025 DATED 21.05.2025 for Over an Area Measuring 5.075 Acres in the Revenue Estate of Village Fazilpur, Iharsa & Begampur Khatola, Sector 71, Gurugram being Developed by Birla Estates Pvt Ltd. (LICENSE NO. 72 OF 2025 DATED 21.05.2025)

SUBJECT : HYDRAULIC DESIGN CHART FOR DOMESTIC WATER SUPPLY SYSTEM

Sl. No.	Name of the Node	Length in Meter	Average Daily water Demand		Peak water demand = 3x Avg. Daily Water		Design of Pipe			Residual head		
			Self	Previous	Total Water Demand	LPD	Total Water Demand	LPD	Size of pipe (dia)	Head Loss in	Velocity	Start
1	2	3	LPD 4	LPD 5	LPD 6	LPD 7	m ³ /hr 8	m 9	m 10	m/sec 11	m 12	m 13
1	PLANTROOM-DWS-1	22		232000	232000	696000	29.00	150	0.06	0.46	160	159.94
2	DWS-1 - EWS	121	12000	220000	232000	696000	29.00	32	645.41	10.02	160	-485.41
3	DWS-1 - DWS-2	20	70000	150000	220000	660000	27.50	100	0.38	0.97	160	159.62
4	DWS-2 - T-2	26	70000	80000	150000	450000	18.75	80	0.71	1.04	160	159.29
5	DWS-2 - DWS-3	54		80000	80000	240000	10.00	80	0.46	0.55	160	159.54
6	DWS-3 - T1	24	80000		80000	240000	10.00	80	0.21	0.55	160	159.79

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SUBJECT : MATERIAL STATEMENT OF FLUSHING WATER SUPPLY SYSTEM

Sl. No.	Name of the Node	Length in Meter		Dia. of provided	100 mm dia. 80 mm dia. 65 mm dia. 50 mm dia. 40mm dia. 32 mm dia. 25 mm dia.							
		m	m		m	m	m	m	m	m	m	
1	2	3	5	4	6	7	8	9	10	11		
1	STP-FWS-1	27	-	65	-	27	-	-	-	-	-	-
2	FWS-1 - T1	55	-	50	-	-	55	0	-	-	-	-
3	FWS-1 - FWS-2	15	-	50	-	-	15	0	-	-	-	-
4	FWS-2 - T2	18	-	50	-	-	18	0	-	-	-	-
5	FWS-2 - FWS-3	21	-	25	-	-	-	0	-	-	-	21
6	FWS-3 - EWS	120	-	25	-	-	-	0	-	-	-	120
	TOTAL	256	0		0	27	88	0	0	0	0	141

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SUBJECT : HYDRAULIC DESIGN CHART FOR FLUSHING WATER SUPPLY SYSTEM

Sl. No.	Name of the Node	Length in Meter	Average Daily water Demand			Peak water demand = 3x Avg. Daily Water demand			Design of Pipe			Residual head	
			Self	Previous	Total	Total Water Demand	LPD	m ³ /hr	Total Water Demand	Size of pipe (dia)	Head Loss in	Velocity	Start
1	2	3	LPD	LPD	LPD	7	8	9	10	11	12	13	
1	STP-FWS-1	27		52000	52000	156000	6.50	65	0.29	0.54	160.00	159.71	
2	FWS-1 - T1	55	26000	26000	52000	156000	6.50	50	2.09	0.92	160.00	157.91	
3	FWS-1 - FWS-2	15		26000	26000	78000	3.25	50	0.15	0.46	160.00	159.85	
4	FWS-2 - T2	18	26000	26000	52000	156000	6.50	50	0.68	0.92	160.00	159.32	
5	FWS-2 - FWS-3	21		6000	6000	18000	0.75	32	0.13	0.26	160.00	159.87	
6	FWS-3 - EWS	120	6000		6000	18000	0.75	32	0.74	0.26	160.00	159.26	

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Sub-work No. II

Sewerage scheme

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babblers projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing and laying R.C.C. pipe drain class NP-3 With cement joint , including the cost of manholes, excavation etc complete in all respect.				
a.)	200 mm dia	Meter	456	1,500	6,84,000
2	Providing , laying , jointing and testing G.I pipe lines including Cost of excavation etc. complete in all respects.				
a)	100 mm dia. G.I. pipe (STP Overflow Pipe)	Meter	120	1,250	1,50,000
3	Provision for cartage of material.	L.S			50,000
4	Provision for lighting and watching.	L.S			50,000
5	Provision for making Sewer Connection with HSVP on master road.	L.S			2,00,000
6	Provision for STP of capacity 530 KLD (265 x 2 Nos). (Cost of Civil/Mechanical) complete in all respect.	KLD	530	15,000	79,50,000
7	Provision for vent pipe as per PH requirement.	L.S			2,00,000
8	Provision of cutting of roads and making good to its original.	L.S			1,00,000
	Total				93,84,000
	Add 3 % contingencies & PE charges.				2,81,520
	Total				96,65,520
	Add 49 % Departmental charges, Price escalation,unforeseen,Admin. Charges.				47,36,105
	Total				1,44,01,625

C/O. to final abstract of cost (say in Lacs)

144.02



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PROJECT: Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by **Sub Work No. II** babbar projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

DESIGN CALCULATION FOR SEWERAGE SYSTEM

SL No	SEWER LINE	Length of line Mtr	Population main dwelling unit @5.EWS @2, Service person @2		Total Water Requirement @ 172.5 Ltrs / person	Sewage Self Load (85% of Water Requirement)	Sewage Load (Average)			Peak Flow @ 3x Av. Flow	Infiltration @ 25% Av. Discharge	Sewage Load (Peak)	Dia of Pipe MM	Slope 1 IN	Fall in Line	Velocity In	Capacity of Pipe	Invert Lvl. (mtr)		Manhole Depth (mtr)		
			No. of Parson	Cemulation Population			LPS	LPS	LPS									LPS	LPS	LPS	Mtr	Mtr
1	SMH1 -SMH2	32.0	122	122	21045	17888.25	0.21	0.00	0.41	1.24	0.10	1.24	200	150	0.21	0.74	11.61	0.45	-0.55	-0.76	1.000	1.21
2	SMH2 -SMH3	21.0	0	122	21045	17888.25	0.21	0.00	0.41	1.24	0.10	1.24	200	150	0.14	0.74	11.61	0.45	-0.76	-0.90	1.213	1.35
3	SMH3 -SMH4	30.0	0	122	21045	17888.25	0.21	0.00	0.41	1.24	0.10	1.24	200	150	0.20	0.74	11.61	0.45	-0.90	-1.10	1.353	1.55
4	SMH4 -SMH5	13.0	0	122	21045	17888.25	0.21	0.00	0.41	1.24	0.10	1.24	200	150	0.09	0.74	11.61	0.45	-1.10	-1.19	1.553	1.64
5	SMH5 -SMH6	16.0	0	122	21045	17888.25	0.21	0.00	0.41	1.24	0.10	1.24	200	150	0.11	0.74	11.61	0.45	-1.19	-1.30	1.640	1.75
6	SMH6 -SMH7	10.0	0	122	21045	17888.25	0.21	0.00	0.41	1.24	0.10	1.24	200	150	0.07	0.74	11.61	0.45	-1.30	-1.36	1.747	1.81
7	SMH7A -SMH7	19.0	100	100	17250	14662.50	0.17	0.00	0.34	1.02	0.08	1.02	200	150	0.13	0.74	11.61	0.45	-0.55	-0.68	1.000	1.13
7	SMH7 -SMH8	9.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.06	0.74	11.61	0.45	-1.36	-1.42	1.813	1.87
8	SMH8 -SMH9	20.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.13	0.74	11.61	0.45	-1.42	-1.56	1.873	2.01
8	SMH9 -SMH10	20.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.13	0.74	11.61	0.45	-1.56	-1.69	2.007	2.14
8	SMH10 -SMH11	30.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.20	0.74	11.61	0.45	-1.69	-1.89	2.140	2.34
8	SMH11 -SMH12	29.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.19	0.74	11.61	0.45	-1.89	-2.08	2.340	2.53
8	SMH12 -SMH13	30.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.20	0.74	11.61	0.45	-2.08	-2.28	2.533	2.73
8	SMH13 -SMH14	30.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.20	0.74	11.61	0.45	-2.28	-2.48	2.733	2.93
8	SMH14 -SMH15	29.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.19	0.74	11.61	0.45	-2.48	-2.68	2.933	3.13
8	SMH15 -SMH16	18.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.12	0.74	11.61	0.45	-2.68	-2.80	3.127	3.25
8	SMH16 -SMH17	31.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.21	0.74	11.61	0.45	-2.80	-3.00	3.247	3.45
8	SMH17 -SMH18	30.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.20	0.74	11.61	0.45	-3.00	-3.20	3.453	3.65
8	SMH18 -SMH19	30.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.20	0.74	11.61	0.45	-3.20	-3.40	3.653	3.85
8	SMH19 -STP	9.0	0	222	38295	32550.75	0.38	0.00	0.75	2.26	0.19	2.26	200	150	0.06	0.74	11.61	0.45	-3.40	-3.46	3.853	3.91

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Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbar projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited.

MATERIAL STATEMENT FOR SEWERAGE SYSTEM

S. No.	Sewer Line	Length (mm)	Dia of Pipe (mm)			
				100mm	250mm	300 mm
1	STP Bypass Line (GI Pipes)	120.0	100	120.0		
	Internal sewerage line :					
1	SMH1 -SMH2	32.0				
2	SMH2 -SMH3	21.0				
3	SMH3 -SMH4	30.0				
4	SMH4 -SMH5	13.0				
5	SMH5 -SMH6	16.0				
6	SMH6 -SMH7	10.0				
7	SMH7A -SMH7	19.0				
8	SMH7 -SMH8	9.0				
9	SMH8 -SMH9	20.0				
10	SMH9 -SMH10	20.0				
11	SMH10 -SMH11	30.0				
12	SMH11 -SMH12	29.0				
13	SMH12 -SMH13	30.0				
14	SMH13 -SMH14	30.0				
15	SMH14 -SMH15	29.0				
16	SMH15 -SMH16	18.0				
17	SMH16 -SMH17	31.0				
18	SMH17 -SMH18	30.0				
19	SMH18 -SMH19	30.0				
20	SMH19 -STP	9.0				
TOTAL		576		120	0	0



Aeon Integrated Building Design Consultants LLP



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Sub-Work No. III

Storm Water Drainage scheme

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babler projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing and laying R.C.C. pipe drain class NP-3 With cement joint , manholes excavation etc complete in all respect.				
a)	400 mm dia.	Meter	555	2,500	13,87,500
2	Provision for cost of Road gullies with 600 mm pipe connection.	Nos.	45	5,000	2,25,000
3	Provision for grating on 450mm wide drain channel	Meter	220	500	1,10,000
4	Providing Rain Harvesting arrangements.	Nos.		3,50,000	-
5	Provision for Shoring & Timbering.	L.S		2,00,000	2,00,000
6	Provision for Lighting, Watching & Temp. Drain Arrangements.	L.S		5,00,000	5,00,000
7	Provision for Carriage of Material with other unforeseen item.	L.S		7,50,000	7,50,000
8	Provision for Making Connection to HUDA Line on master road.	L.S		2,00,000	2,00,000
9	Provision of cutting of roads and making good to its original.	L.S		1,00,000	1,00,000
10	400 mm dia overflow line up to master storm water drainage (LS)	Meter	75	2,000	1,50,000
Total					36,22,500
Add 3 % contingencies & PE charges.					1,08,675
Total					37,31,175
Add 49 % Departmental charges, Price escalation,unforeseen,Admin. Charges.					18,28,276
Total					55,59,451

C/O. to final abstract of cost (say in Lacs)

55.59





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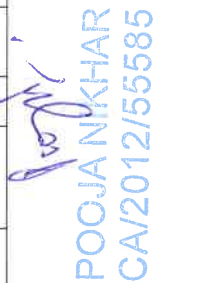
Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by habhtler projects pvt. ltd. and AIPF Bharat infrastructure private limited in collaboration with AIPF Bharat infrastructure private limited

DESIGN CALCULATION FOR STORM WATER DRAINAGE SYSTEM

SL NO	LINE NO.		LENGTH MTR	SELF AREA TO BE DRAINED IN SQM	AREA IN HECTARES			DISCHARGE IN CUM/SEC RAIN INTENSITY =6.25mm M3/HR	DISCHARGE IN M3/SEC 400MM	Pipe Dia	SLOPE	VELOCITY M/SEC	DISCHARGE CAPACITY IN M3/SEC	Check	GROUND LEVEL AT START	GROUND LEVEL AT END	FALL	INVERT LEVEL AT START	INVERT LEVEL AT END	DEPTH AT START	DEPTH AT END	AVERAGE DEPTH	REMARKS
	FROM	TO			SELF	BRANCH	TOTAL																
1	STMH-1	STMH-2	21	470	0.00	0.05	0.05	2.203	0.0006	400	450	0.781	0.10	OK	0.450	0.000	0.047	-0.350	-0.397	0.800	0.397	0.598	900dia.
2	STMH-2	STMH-3	21	600	0.00	0.06	0.11	5.016	0.0014	400	450	0.781	0.10	OK	0.450	0.000	0.047	-0.397	-0.443	0.847	0.443	0.645	900dia.
3	STMH-3	STMH-4	25	560	0.00	0.06	0.16	7.641	0.0021	400	450	0.781	0.10	OK	0.450	0.000	0.056	-0.443	-0.499	0.893	0.499	0.696	900dia.
4	STMH-4	STMH-5	25	650	0.00	0.07	0.23	10.688	0.0030	400	450	0.781	0.10	OK	0.450	0.000	0.056	-0.499	-0.554	0.949	0.554	0.752	900dia.
5	STMH-5	STMH-6	25	610	0.00	0.06	0.29	13.547	0.0038	400	450	0.781	0.10	OK	0.450	0.000	0.056	-0.554	-0.610	1.004	0.610	0.807	900dia.
6	STMH-6	STMH-7	25	1200	0.00	0.12	0.41	19.172	0.0053	400	450	0.781	0.10	OK	0.450	0.000	0.056	-0.610	-0.666	1.060	0.666	0.863	900dia.
7	STMH-7	STMH-8	25	1270	0.00	0.13	0.54	25.125	0.0070	400	450	0.781	0.10	OK	0.450	0.000	0.056	-0.666	-0.721	1.116	0.721	0.918	900dia.
8	STMH-8	Municipal drain	4	440	0.00	0.04	0.58	27.188	0.0076	400	450	0.781	0.10	OK	0.450	0.000	0.009	-0.721	-0.730	1.171	0.730	0.951	900dia.
9	STMH-9	STMH-10	16	1220	0.00	0.12	0.12	5.719	0.0016	400	450	0.781	0.10	OK	0.450	0.000	0.036	-0.350	-0.386	0.800	0.386	0.593	900dia.
10	STMH-10	STMH-11	18	325	0.00	0.03	0.15	7.242	0.0020	400	450	0.781	0.10	OK	0.450	0.000	0.040	-0.386	-0.426	0.836	0.426	0.631	900dia.
11	STMH-11	STMH-12	31	440	0.00	0.04	0.20	9.305	0.0026	400	450	0.781	0.10	OK	0.450	0.000	0.069	-0.426	-0.494	0.876	0.494	0.685	900dia.
12	STMH-12	STMH-13	24	1090	0.00	0.11	0.31	14.414	0.0040	400	450	0.781	0.10	OK	0.450	0.000	0.053	-0.494	-0.548	0.944	0.548	0.746	900dia.
13	STMH-13	STMH-14	24	800	0.00	0.08	0.39	18.164	0.0050	400	450	0.781	0.10	OK	0.450	0.000	0.053	-0.548	-0.601	0.988	0.601	0.799	900dia.
14	STMH-14	STMH-15	26	915	0.00	0.09	0.48	22.453	0.0062	400	450	0.781	0.10	OK	0.450	0.000	0.059	-0.601	-0.660	1.051	0.660	0.855	900dia.
15	STMH-15	STMH-16	26	325	0.00	0.03	0.51	23.977	0.0067	400	450	0.781	0.10	OK	0.450	0.000	0.058	-0.660	-0.718	1.110	0.718	0.914	900dia.
16	STMH-16	STMH-17	23	310	0.00	0.03	0.54	25.430	0.0071	400	450	0.781	0.10	OK	0.450	0.000	0.051	-0.718	-0.769	1.166	0.769	0.968	900dia.
17	STMH-17	STMH-18	28	1175	0.00	0.12	0.66	30.938	0.0086	400	450	0.781	0.10	OK	0.450	0.000	0.062	-0.769	-0.831	1.219	0.831	1.025	900dia.
18	STMH-18	STMH-19	22	600	0.00	0.06	0.72	33.750	0.0094	400	450	0.781	0.10	OK	0.450	0.000	0.049	-0.831	-0.880	1.281	0.880	1.080	900dia.
19	STMH-19	Municipal drain	2	10	0.00	0.00	0.72	33.797	0.0094	400	450	0.781	0.10	OK	0.450	0.000	0.004	-0.880	-0.884	1.330	0.884	1.107	900dia.
20	RWHT	STMH-20	12	0	0.00	0.00	0.00	0.000	0.0000	400	450	0.781	0.10	OK	0.450	0.000	0.027	-0.350	-0.377	0.800	0.377	0.588	900dia.
21	STMH-20	STMH-21	18	1800	0.00	0.18	0.18	8.438	0.0023	400	450	0.781	0.10	OK	0.450	0.000	0.041	-0.377	-0.418	0.827	0.418	0.622	900dia.
22	STMH-21A	STMH-21B	17	2040	0.00	0.20	0.20	9.563	0.0027	400	450	0.781	0.10	OK	0.450	0.000	0.038	-0.418	-0.456	0.868	0.456	0.662	900dia.
23	STMH-21B	STMH-21	22	1700	0.00	0.17	0.37	17.531	0.0049	400	450	0.781	0.10	OK	0.450	0.000	0.049	-0.456	-0.505	0.906	0.505	0.705	900dia.
24	STMH-21	STMH-22	26	275	0.00	0.03	0.58	27.258	0.0076	400	450	0.781	0.10	OK	0.450	0.000	0.057	-0.505	-0.562	0.955	0.562	0.759	900dia.
25	STMH-22	STMH-23	20	165	0.00	0.02	0.60	28.031	0.0078	400	450	0.781	0.10	OK	0.450	0.000	0.044	-0.562	-0.606	1.012	0.606	0.809	900dia.
26	STMH-23	STMH-24	26	1565	0.00	0.16	0.75	35.367	0.0098	400	450	0.781	0.10	OK	0.450	0.000	0.059	-0.606	-0.664	1.056	0.664	0.860	900dia.
27	STMH-24	Municipal drain	3	236	0.00	0.02	0.78	36.473	0.0101	400	450	0.781	0.10	OK	0.450	0.000	0.006	-0.664	-0.670	1.114	0.670	0.892	900dia.







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MATERIAL STATEMENT FOR STORM WATER DRAINAGE SYSTEM

SL NO	NAME OF LINE		LENGTH	PIPE DIA	400MM	500MM
	FROM	TO	MTR	MM	MTR	MTR
1	STMH-1	STMH-2	21	400	21	
2	STMH-2	STMH-3	21	400	21	
3	STMH-3	STMH-4	25	400	25	
4	STMH-4	STMH-5	25	400	25	
5	STMH-5	STMH-6	25	400	25	
6	STMH-6	STMH-7	25	400	25	
7	STMH-7	STMH-8	25	400	25	
8	STMH-8	Municipal Drain	4	400	4	
9	STMH-9	STMH-10	16		16	
10	STMH-10	STMH-11	18		18	
11	STMH-11	STMH-12	31		31	
12	STMH-12	STMH-13	24		24	
13	STMH-13	STMH-14	24		24	
14	STMH-14	STMH-15	26		26	
15	STMH-15	STMH-16	26		26	
16	STMH-16	STMH-17	23		23	
17	STMH-17	STMH-18	28		28	
18	STMH-18	STMH-19	22		22	
19	STMH-19	Municipal Drain	2		2	
20	RWHT	STMH-20	12		14	
21	STMH-20	STMH-21	18		11	
22	STMH-21A	STMH-21B	17		17	
23	STMH-21B	STMH-21	22		10	
24	STMH-21	STMH-22	26		2	
25	STMH-22	STMH-23	20		5	
26	STMH-23	STMH-24	26		18	
27	STMH-24	Municipal Drain	3		18	
	Total		555			



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Sub-Work No. VII

Maintenance Charges & Re-surfacing of Roads

Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babler projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

S.no	Descriptions	Unit	Qty	Rate	Amount
Sub work VII -M/C Charges for Services & Resurfacing of road					
1	Providing of M/C charges for water supply , storm water drainage, sewerage, Road, Street 5.1375acre @ 2.50 lacs pr acre	acre	5.1375	250000.00	1284375.00
2	Providing of resurfacing of roads after 5 years 100mm thick layer 100mm thick BUSG complete to 25mm thick premix carpet with seal cost (4406.52 sqm @ 180 per sqm	sqm	4406.52	180.00	793173.60
3	Providing of resurfacing of roads after 10 years (4406.52 sqm @ 90 per sqm	sqm	4406.52	90.00	396586.80
Total					2474135.40
Add 3% contingencies					74224.06 2
Total					2548359.46 2
Add 14% Deptt. Charges , Price Escalation					356770.32 46 8
Total					2905129. 79
Say In Lacs					29.05



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Sub-Work No. V

Street lighting

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babblers projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

S.no	Descriptions	Unit	Qty	Rate	Amount
Sub work V-Street Lighting					
1	Providing for Street lighting with underground deducting on road as per standard specification of DHBVPNL				
	5.1375 acre @ 50000/- per acres	acres	5.1375	50000.00	256875.00
	Add 3% contingencies				7 706
				Total	2 64 581
	Add 14% Deptt. Charges , Price Escalation Unforeseen, Admn				37 041
				Total	3 01 623
				Say In Lacs	3.01



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Sub Work No.VI

Horticulture

Sub-Head No. 05

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbler projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

S.no	Descriptions	Unit	Qty	Rate	Amount
Sub work VI-Plantation and Road side trees					
1	Development of lawn areas				
a)	Trenching the ordinary soil upto dept of 60cm including removal and stacking of serviceable materials and disposing of by spreading and leveling within a lead to 50m and making up the trenches area of proper leads by filling with earth mixed with mannure before and after flooding trench with water including cost of imported earth and mannure				
b)	Rough dressing of trufed area				
c)	Grassing with "Doob Grass" including watering and maintenance of lawns for 30 days till the grass forms a thick lawn free weeds and fit for moving in rows 7.5m apart in either direction including provision for hedges and barbed wire fencing around park (5.1375 acres @ 70000 per acre	acre	5.1375	70000.00	359625.00
2	Provisions trees, guards and planting trees along road at 12mt interval Total Road length =665.555 m $665.55/12 =55.46$ nos, Say =55 nos Cost of Analysis of planting trees Excavation @ Rs.20.00 Manure @ Rs.20.00 Tree plant @ Rs.20.00 Tree guard @ Rs.190.00 Total Rs.250 per trees	Nos	55	250.00	13750.00
	Add 3% contingencies				11201.25
	Add 14% Deptt. Charges , Price Escalation Unforeseen, Admn				53840. 67 5
				Total	384576.25
				Total	438416. 9
				Say In	4.38
				Lacs	

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Sub Work No.IV**Roads and Footpaths****Sub-Head No. 06**

Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babbar projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

S.no	Descriptions	Unit	Qty	Rate	Amount
Sub work IV-ROAD WORK					
1	Providing for leveling and earth filling as per site condition 5.1375 acres @ Rs. 50,000.00 per acres	acres	5.1375	50000.00	256875.00
2	i) Soiling stone 100mm thick (90-63mm) gauge completed to 75mm thick WBM specification & Confirming to MOT Specification (Table 400-6 grading No-2)				
	ii) Wearing coat (Top coat) 100thick (63-40mm) gauge completed to 75mm thick WBM specification & Confirming to MOT Specification (Table 1400-6 grading No-3)				
iii)	25mm thick pre-mix carpet with seal coat 4406.52 sqm @ Rs.180/- per sqm	sqm	4406.52	180.00	793173.60
3	Provision for kerbs and channels of CC (1:2:4) on both sides of road 665.55 metre(106.82x2) (106.82x2) @ 275 per metre	metre	665.55	275.00	183026.25
4	Provision for cement concrete pavement 1:2:4 on road , 4406.52 sqm @ Rs. 250/- sqm	sqm	4406.52	250.00	1101630.00
5	Provision for plot indicator board and guide map & demarction burgi and making parking arrangement.				12 50 000
6	Provision for traffic light arrangement				12 50 000
7	Provision for carriage of material all other unforeseen item (L.S)				7 00 000
				Total	55 34 705
	Add 3% contingencies				1 66 041
				Total	57 00 746
	Add 14% Deptt. Charges , Price Escalation Unforeseen, Admn				7 98 104
				Total	64 98 850
				Say In Lacs	64.98



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Project :- Approval for proposed building plan of residential group housing colony over an area measuring 5.1375 acre (license no. 62 of 2025 dated 01-05-2025) in sector 103, Gurugram being developed by babler projects pvt. ltd. and AIPL Bharat infrastructure private limited in collaboration with AIPL Bharat infrastructure private limited

S.No.	Road No.	7.5 M	6M
		LENGTH(M)	LENGTH(M)
1	R1-R2	69.71	0
2	R2-R3	34.54	0
3	R3-R4	95.43	0
4	R4-R5	40.59	0
5	R5-R6	90.14	0
6	R6-R3	41.12	0
7	R7-R8	0	139.45
8	R8-R9	0	34.95
9	R9-R10	0	31.98
10	R10-R11	0	23.3
11	R11-R8	0	32.67
	TOTAL	371.53	262.35
Length of Road		371.53	262.35
Add 5% for Curve		18.5765	13.1175
Total Length		390.11	275.47
Area of Roads		2340.51	2066.01
Total Area of Roads		4406.52	
Total Road Length		665.57	



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