

PROJECT

Services Estimate of Retirement Housing Colony over an area
4.525 Acres (License No.-16 of 2025 Dated 30-01-2025) in
A, Gurugram, Manesar Urban Complex being Developed by
M/s. ARTTECH Elegent Homes LLP

CLIENT

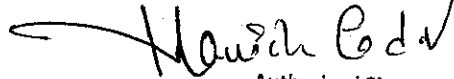
M/s. ARTTECH Elegent Homes LLP

SERVICES ESTIMATE (PHE REPORT)

Dt - 10.06.2025

Dt - 19.08.2025 - (R1)

For ARTTECH ELEGANT HOMES LLP


Authorized Signatory

SERVICES CONSULTANTS

INTEGRAL DESIGNS

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INDEX

S.NO	DESCRIPTION	PAGE
(A)	Report	3
1	Water Supply	3
2	Sewerage Scheme	4
3	Pump Chamber & Pumping Machine	4
4	Storm Water Drainage	5
5	Roads	5
6	Street Lighting	6
7	Horticulture	6
8	Specifications	6
9	Rates	6
10	Cost	6
(B)	DESIGN CALCULATIONS	7-11
I.	Daily Water Requirement	7
II.	Tubewells	8
III.	Boosting Machinery	9
IV.	Boosting Machinery (Flushing)	10
V.	Under Ground Water Tanks	10
VI.	Over Head Service Reservoir	11
VII.	Generating Sets for site (Boosting Machinery System)	11
VIII.	Generating Sets for site (STP)	11
IX.	Sewage Treatment Plant	11
(C)	Cost Estimates – PHE Services	12-26
	Sub Work No I : Water Supply	15-19
	Sub Work No I : Sub Head No. 01 Head Work (TW)	15
	Sub Work No I : Sub Head No. 02 Pumping Machinery	16
	Sub Work No I : Sub Head No. 03 Rising Main from HSVP/Tubwell	17-18
	Sub Work No I : Sub Head No. 04 Water Supply Flushing / Irrigation Pipe	19
	Sub Work No II : Sewerage Scheme	20
	Sub Work No III : Storm water Scheme	21
	Sub Work No IV : Road work	22-23
	Sub Work No V : Street Lighting	24
	Sub Work No VI : Horticulture	25
	Sub Work No VII : M/C Charges for Services & Resurfacing of Roads	26

FOR ARTTECH ELEGANT HOMES LLP

(Signature)
Authorised Signatory

PROJECT REPORT / ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF PROPOSED BUILDING FOR RETIREMENT HOUSING COLONY OVER AN AREA MEASURING 4.525 ACRES (LICENSE NO. 16 OF 2025 DATED 30-01-2025) IN SECTOR-89A, GURUGRAM, MANESAR URBAN COMPLEX BEING DEVELOPED BY ARTTECH ELEGANT HOMES LLP.

(A) REPORT

The Haryana Government has prepared a master plan for development of Residential / Industrial / Commercial urban estate Gurugram. M/s. ARTTECH Elegant Homes LLP has decided to develop a part of the area in this master plan and has named this part as Proposed Buildings for Retirement Housing Colony in Sector-89A, Gurugram, Manesar. This colony is located in Sector-89A, Gurugram, Manesar of Haryana Shehri Vikas Pradhikaran, Gurugram (H.S.V.P.), License No. 16 of 2025 dated 30.01.2025. The brief details of the development are as under :-

NOS. OF DWELLING UNITS :

SL. NO.	DESCRIPTION	TOTAL NO. OF UNITS	NO. OF PERSONS / DWELLING UNIT	POPULATION CALCULATION
1.0	TOWER-A -(S+21) - 1 No			
1.1	1st to 19th Floor (3BHK)	57	3	171
1.2	20th Floor - (3BHK)	2	3	6
1.3	20th Floor - (2BHK+ S.Room)	1	3	3
1.4	21st Floor - (3BHK)	3	3	9
1.5	Care Taker Room	20	2	40
2.0	TOWER-B -(S+21) - 1 No			
2.1	1st to 19th Floor - (3BHK)	57	3	171
2.2	20th Floor - (3BHK)	2	3	6
2.3	20th Floor - (2BHK+ S.Room)	1	3	3
2.4	21st Floor - (3BHK)	3	3	9
2.5	Care Taker Room	20	2	40
3.0	TOWER-C -(S+21) - 1 No.			
3.1	1st to 13th Floor - (3BHK)	39	3	117
3.2	14th to 19th Floor - (3BHK)	12	3	36
3.3	14th to 19th Floor - (2BHK)	6	3	18
3.4	20th Floor - (3BHK)	1	3	3
3.5	20th Floor - (2BHK)	1	3	3
3.6	20th Floor - (2BHK+ S.Room)	1	3	3
3.7	21st Floor - (3BHK)	2	3	6
3.8	21st Floor - (2BHK)	1	3	3
4.0	TOWER-D -(S+21) - 1 No.			
4.1	1st to 19th Floor - (3BHK)	57	3	171
4.2	20th Floor - (3BHK)	2	3	6
4.3	20th Floor - (2BHK+ S.Room)	1	3	3
4.4	21st Floor - (3BHK)	3	3	9
4.5	Care Taker Room	20	2	40

5.0	TOWER-E -(S+22) - 1 No.			
5.1	1st to 2nd Floor - (2BHK)	84	3	252
5.2	22nd Floor - (4BHK (Penthouse))	2	3	6
6.0	Service Person Room (Commercial Block-B)			
6.1	1st Floor	5	2	.10
6.2	2nd to 8th Floor	56	2	112
6.3	9th Floor	7	2	14
7.0	Commercial			
8.0	Community			
	TOTAL	466		1270

1 WATER SUPPLY

(i) Source

The source of water supply in this area shall be tube well at present as the underground water is potable and fit for human consumption. Moreover, water is available at reasonable depth. The average yield of tube well with 40-45 strainer will be about 22500 Litres per hour. The recharging of underground water table in this belt is stated to be good. However, we shall resort to rainwater harvesting system to keep up the recharging system. The number of tube well required for the above area has been worked out and the tube wells will be bored in tune with growth of demand to avoid obsolescence of the tube well. The ultimate requirement of tube well includes provision of 10% standby. Ultimately, the water shall be supplied to the project by HARYANA SHEHRI VIKAS PRADHIKARAN, GURUGRAM (H.S.V.P.).

(ii) Design

The scheme has been designed for population of **1270 persons**. The rate of water supply per head per day has been taken assumed as 155.25 (135+15%) litres per head per day as per HSVP norms. In addition to above, necessary provision of water for Commercial, Community Center, Parks etc. have been taken into account for calculating the maximum number of tube well water required.

(iii) Underground Water Tank Storage

Underground water storage tank provision has been made for **455 KL** capacity & estimate has been made.

155 KL for DWS + 300 KL for Fire Fighting.

- a) The under ground water tank shall be constructed in two compartments, which will cater for domestic as well as for fire-fighting requirements. The water for domestic water compartment shall overflow from the fire compartment so that the water in the fire compartment will also remain fresh.

iv) Boosting Station

The boosting station is being planned for catering to the above requirement.

FOR ARTITECH ELEGANT HOMES

Navin C. S.

Authorised Signatory Page No. 4

v) **Distribution System**

The Distribution Systems for this Development has been designed to supply @ 90.00 litres per head per day for drinking water and 45 litres per day for flushing @ 3 times the average rate of flow on 'Hazen William' formula with + 10% additional. Necessary provision for laying of DI Pipe conforming to relevant IS standards along with the valves and the chambers has been made in this estimate. The minimum terminal head at any point in this system will be about 27.00 metres. Minimum pipe diameter for distribution ring is kept as 100 mm diameter.

vi) **Rising Mains**

Rising Mains from HSVP water mains upto the under ground water tank has also been planned and provision for D.I. pipeline (diameter as/authority) has been made in this estimate.

2 **SEWERAGE SCHEME**

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. Sewer line upto 200 mm dia has been designed to run half full and above 400 mm dia has been designed to run three fourth full at peak flow. Necessary provision for laying NP3 RCC pipe sewer line, construction of required number of manholes etc. have been made in the estimate. In this case, all the sewage pipes shall be terminated into STP.

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

3 **PUMP CHAMBERS AND PUMPING MACHINERY**

It is proposed to equip each tube well with an electrically driven set ejector type or submersible pump capable of delivering of 22500 litre per hour. The generator set has been proposed to operate the pumping set in case of non-availability of electricity.

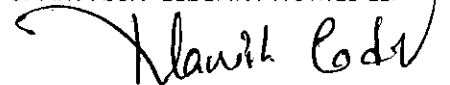
4 **STORM WATER DRAINAGE**

It is proposed to lay underground NP-3 R.C.C. pipe drains with required number of catch basins for disposal of storm water which will be connected to Rain Water Harvesting Pit and overflow of pit shall be connected to HSVP drain. The intensity of rainfall has been taken as ¼" per hour. A minimum size of 400 mm dia NP-3 R.C.C. storm water line will be provided and designed as per manning formula. Necessary Rain Water Harvesting arrangement also has been planned.

5 **ROADS**

The road in the development has been planned in such a way that feeder roads are 6 metres wide. Internal services roads providing approach to the **buildings** are 6 metres wide. The following specifications have been adopted which are reproduced below.

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- i) 200 mm GSM
- ii) 250 mm stone aggregate with brimer coat @ 85 kg/100 sq.m. and Trac Coat @ 30 kg/100 sq.m.
- iii) 50 mm thick D.B.M.
- iv) 30 mm thick BC

The above construction shall be done on well compacted sub grade as per specifications. Complete work will be carried out as per MORTH specifications, IRC guideline or HSVP specifications, whichever applicable.

6 STREET LIGHTING

Provision for lighting in the surrounding area has been made on lump sum basis.

7 HORTICULTURE

The usual provision of roadside plantation of tree with tree guards has been made for all roads. The parks shall be developed by providing Lawns etc.

8 SPECIFICATIONS

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

9 RATES

The estimate for providing services has been based on the present market rates.


10 COST

The total cost of the scheme, including cost of all services works out to be **Rs. 595.78 Lakh** including 3% contingencies and P.E. charges and 49% departmental, administrative, unforeseen and escalation charges.

The cost per gross acre for this works out to **Rs. 132 Lakh/acre** which covers the provision of services like Water Supply, Sewerage, Storm Water Drainage, Roads, Street Lighting and Plantations including plantations maintenance thereof as well as future expansion whatsoever indicated.

For M/s. ARTTECH Elegent Homes LLP

For ARTTECH ELEGANT HOME


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Authorized signatory

(B)

DESIGN CALCULATIONS

I. DOMESTIC WATER REQUIREMENT

1.0 Units - (Tower-A, B, C, D, E & Care Taker Room) :-

- Main Units	=	338 Units
- Care Taker Units	=	128 Units
Total No. of Units	=	466 Units
- Main Units 338 @ 3 Person	=	1014 Units
- Care Taker Units 128 @ 2 Person	=	256 Units
Total No. of population	=	1270 Nos.
Water requirement per person per day	=	155.25 Ltrs.
Total Water requirement per day	=	197167.5 Ltrs.
Say	=	197 KLD

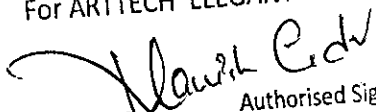
2.0 Add requirement for Institutions etc.:-

a) Area of Community (850.761 sq.mtr.) or 0.210 Acre	=	0.210 Acre
Daily Water requirement	=	25.0 KLD per Acre
Total of Daily water requirement for Community (0.210 x 25 KLD)	=	5.3 KLD
Say	=	6.0 KLD
b) Area of Commercial (1648.041 sq.mtr.) or 0.406 Acre	=	0.406 Acre
Daily Water requirement @ 32 KLD per Acre	=	32.0 KLD per Acre
Total of Daily water requirement (32 KLD x 0.406)	=	13.0 KLD
Say	=	13.0 KLD
c) Misc. (20,000 litres/day)	=	20.0 KLD
Total Water Requirement (a+b+c)	=	39.0 KLD

3.0 Horticulture water requirement

Recognized green area (approx.) (3663.421 sq.mtrs.) or 0.90525 acre	=	0.90525 Acre
Water per Acre for Horticulture (recycle from STP)	=	25.0 KL/acres
Total of Water requirement for Horticulture (0.90525 x 25.0)	=	22.6 KL/acres
Say	=	23.0 KL/acres

FOR ARTTECH ELEGANT HOMES


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4.0	Area under roads (6mtr. Wide road)	=	543.00 mtrs.
	Total length of road = 543.14 mtr.		
	Total road area (6 x 543/4046.825)	=	0.81 acre
	Daily water requirement for sweeping of roads	=	4.0 KLD
	(0.81 x 5000/1000)		

Total daily water requirement :-

a.	For domestic use (1 + 2) (197 + 39)	=	236 KLD
b.	Under parks & roads (3 + 4) (23.0 + 4.0)	=	27.0 KLD
		Say	27.0 KLD
c.	For Flushing use (35% of 236 KLD)	=	82.7 KLD
		Say	83.0 KLD
	Therefore Daily requirement for supply of drinking purpose	=	153.2 KLD
	(a - c) (236 - 83)	Say	154.0 KLD

II. TUBEWELLS

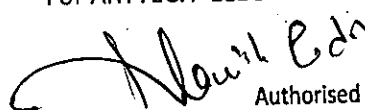
(a)	Yield	=	22.5 KL/hr. (8000 Gallon/day)
(b)	Working Hours per day (16 Hours per Day)	=	16 Hours
(c)	Total Water domestic water demand	=	154 KLD
(d)	Number of Tubewell required. 154/(22.5 x 16) (Water demand/Discharge/Hour of Working per day)	=	0.43
(e)	Add 10% as standby	=	0.04
	Total	=	0.47 No.
	Say	=	1.0 No.

So, it is proposed to provide 1 No. of tube wells at present in the estimate. More tube wells will be installed when required. Moreover, the water supply is to be provided by the HSVP to the colony ultimately. The demand of flushing water supply is to be met from effluent of STP.

Pumping Machinery for Tube well

(a)	Gross Working Head	=	90.0 Mtrs.
(b)	Average fall in S.L.	=	5.0 Mtrs.
(c)	Depression Head	=	5.0 Mtrs.
(d)	Friction loss in main	=	5.0 Mtrs.
	Total	=	105.0 Mtrs.
(e)	Discharge	=	22500 LPH
	or		375 LPM (each)
(f)	HP = (22500 x 105) / (60 x 60 x 75 x 0.60)	=	14.58 HP
	Say	=	15.0 HP

For ARTTECH ELEGANT HOMES LLP


Anand E. D. W.
Authorised Signatory

III. BOOSTING MACHINERY


(a) Daily Domestic Water Demand	=	154.0 m ³ / day
(b) Discharge per hour @ 8 hr. pumping / day (154/8)	=	19.3 m ³ / hour
or		
19.3/0.060	=	320.8 LPM
	Say	321 LPM
(c) Proposed pump discharges		
Pump provided (1 working + 1 standby)	=	321.0 LPM (each pump)
Gross Working Head for site :-		
(d) Suction lifts	=	4.0 Mtrs.
(e) Frictional loss in mains & specials	=	6.0 Mtrs.
(f) Max clear head required	=	27.0 Mtrs.
	Total	= 37.0 Mtrs.
	Say	40.0 Mtrs.
(g) H.P. of each pump required	=	4.76 HP
(321 x 40) / (60 x 75 x 0.60)		
	Say	5.0 HP

It is proposed to provide 2 Nos. of pumps (1 working + 1 standby) of 5 HP each.

IV. BOOSTING MACHINERY (FLUSHING)

(a) Daily requirement of water supply for flushing	=	83.0 KLD
(b) Add requirement for irrigation	=	27.0 KLD
	Total	= 110 KLD
Working hours (8 hours)	=	8 Hrs.
Discharge per hr. = (110/8)	=	14 KL/Hr.
Discharge per minutes = (14/60) x 1000	=	233.3 Ltr./m
	Say	= 234.0 Ltr./m

For ARTTECH ELEGANT HOMES LLP


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Gross Head for Pump :-

(a) Suction lifts	=	4.0 Mtrs.
(b) Frictional loss in mains & specials	=	6.0 Mtrs.
(c) Max clear head required	=	27.0 Mtrs.
Total	=	37.0 Mtrs.
Say	=	40.0 Mtrs.
B.H.P. of Motor (234.0 x 40) / (60 x 75 x 0.6)	=	3.47 HP
Say	=	4.0 HP

V. UNDER GROUND WATER TANKS

(a) Total Daily domestic water demand	=	154.0 KLD
(b) Proposed domestic UG water tank 100% of daily demand (154 x 100%)	=	154.0 KLD
Say	=	155.0 KLD
(c) Proposed UG Fire Tank	=	300.0 KLD

VI. OVER HEAD SERVICE RESERVOUR


There is no requirement of O.H.S.R. for domestic water supply. The capacity of U.G.S.T. has been increased by 100%, which is equal to required capacity of O.H.S.R.

VII. GENERATING SETS FOR SITE (BOOSTING MACHINERY SYSTEM)

HP of tubewell pump 30 x 1	=	30.0
HP of domestic pump 15 x 1	=	15.0
Total	=	45.0 HP
45 x 0.746 x 1.50	=	50.4 KVA
Add 10% extra	=	5.0 KVA
Total	=	55.4 KVA
Say	=	58.5 KVA

It is proposed to add 58.5 KVA Capacity to the main DG set for pumping system.

For ARTECH ELEGANT HOMES LLP


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VIII. GENERATING SETS FOR SITE (STP)

HP of S.T.P.	=	85.0 HP
Total (85 x 1.85 x 0.746)	=	117.3 KVA
Say	=	125.0 KVA

It is proposed to add 125 KVA Capacity to the Main DG Set for STP.

IX. SEWAGE TREATMENT PLANT

Total water requirement	=	236 KLD
Capacity of S.T.P. @ 80% of total water requirement	=	188.9
15% Extra as per EIA	=	28.3
Total	=	217.3 KLD
Say	=	220.0 KLD

For ARTTECH ELEGANT HOMES LLP

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Authorized Signatory

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PROJECT

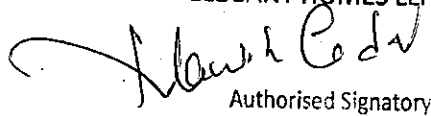
Proposed Service Estimate of Retirement Housing Colony over an area measuring 4.525 Acres (License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex being Developed by M/s. ARTTECH Elegent Homes LLP

Cost Estimates

Dt - 10.06.2025

Dt - 19.08.2025 - (R1)

For ARTTECH ELEGANT HOMES LLP


Authorised Signatory

Integral Designs

E-90, Anand Niketan

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Tel.:011-41518300, 41518301

Email:- mep@integraldesigns.in

FINAL ABSTRACT OF COST

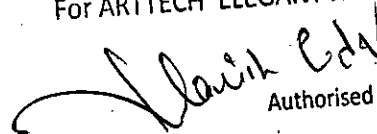
		Amount in Rs. Lakh
SUB WORK NO. I	WATER SUPPLY SCHEME	209.58
SUB WORK NO. II	SEWERAGE SCHEME	92.38
SUB WORK NO. III	STROM WATER SCHEME	60.12
SUB WORK NO. IV	ROAD WORKS	77.34
SUB WORK NO. V	STREET LIGHTING	17.36
SUB WORK NO. VI	HOTICULTURE	5.45
SUB WORK NO. VII	M/C CHARGES FOR SERVICES & RESURFACING OF ROADS	133.54
TOTAL		595.78

(Rupees Five Hundred Ninety Five Thousand Seventy Eight Hundred only)

Development Cost per Acre (4.525 Acre) is coming out to be
(Rs. 595.78/4.525 = 131.66 Lakh, Say 132 Lakh)

AUTHORISED SIGNATORY

For ARTECH ELEGANT HOMES LLP


Authorized Signatory

ESTIMATE

SUB WORK NO. I

WATER SUPPLY

Amount in Rs.
(In Lacs)

1	Sub Head No. 01	Head Works (TW)	86.37
2	Sub Head No. 02	Pumping Machinery	44.51
3	Sub Head No. 03	Rising Main From HSVP & Tubewell	38.77
4	Sub Head No. 04	Distribution System (Flushing & Irrigation)	39.93

TOTAL 209.58

For ARTECH ELECTRO SYSTEMS LLP

Manish Chauhan
Authorized Signatory

Sub Work No. I
Sub Head No. 01

Water Supply
Head Works (TW)

Amount (Rs.)
(In Lacs)

1	Boring and installing 300 mm inner dia tubewell with reverse / direct rotary rig complete with pipe and strainer to a depth of about 150 metre in all respect 1 no. @ Rs. 15.00 Lacs each	15.00
2	Provision for construction of pump chamber as per standard design of PWD PH / HSVP of size 4.90 x 4.25 1 No. @ Rs. 10 Lacs each	1.00
3	Provision for boundary wall, gate around tube well site water works 2 Nos. @ Rs. 1 Lacs	
4	Provision for footpath, hedges and lown at Tubewell water works etc. (L.S.)	
5	Construction of boosting chambers of suitable size along with under ground tank of capacity 455 KL, Pumping machinery and generation set etc. complete in all respect. Detail of boosting stations i) Construction of boosting chambers.	4.00
	ii) Construction of U.G. Tank 455 KL @ Rs. 5500 /KL in compartments .	25.03
	iii) Flushing Tank (83 x 60%) = 49.8 KL (Say 50 KL) @ Rs. 5500/-	2.75
6	Provision for staff quarters for maintenance of scheme = 1 No. 350 SQ. FT. @ 7.5 Lacs (L.S)	7.50
7	Provision for carriage of material and other unforeseen items etc. (L.S)	1.00
TOTAL		56.28
Add 3% for contingencies and P.E charges		1.69
TOTAL		57.96
Add 49% Departmental charges, price escalation unforeseen and administrator charges		28.40
TOTAL		86.37
SAY IN LACS		86.37

FOR ART TECH ELEGANT HOVIES LLP

Sub Work No. I
Sub Head No. 02

Water Supply
Pumping Machinery

Amount(Rs.)
(In Lacs)

1	Providing and installing electricity driven submersible pumping set capable of delivering about 22.5 KL water per hour against a total Head of 105 M complete with motor and other accessories. (15 H.P) - 1 no. @ Rs.3.00 Lac each.	3.00
2	Provision for cheap pressure type chlorination plant complete. 1 No. @ Rs. 1.00 Lac	1.00
3	Provision for making foundations and erection of Pumping Machinery: (L.S)	1.00
4	Provision for pipes, valves and specials inside boosting chamber. (L.S)	2.00
5	Provision for electric service connection including electrical fittings for tube-well and boosting chamber including transformer	2.50
6	Providing & installing of centrifugal Booster Pumps: Domestic booster Capacity 321 LPM at 40 M head, 2 Nos. @ 4.5 Lac each (1W+1S).	9.00
7	Providing genset (125 KVA)	9.50
8	Provision for carriage of material and other unforeseen items. (L.S)	1.00
TOTAL		29.00
Add 3% for contingencies and P.E charges		0.87
TOTAL		29.87
Add 49% Departmental charges, price escalation unforeseen and administrator charges		14.64
TOTAL		44.51

For ARTTECH ELEGANT HOMES LLP


Anand Chandra
Secretary

Sub - Work No. I
Sub Head No. 03

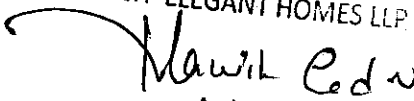
Water Supply
Rising Main from
HSVP/Tubewell

Amount in Rs.
(In Lacs)

- | | | |
|----|---|-------|
| 1 | Provision for rising main from main HSVP water line to U.G.S.T. tank. | |
| - | Providing, Laying, jointing and testing DI (Class K-9) pipe line including cost of excavation complete as per specifications. -100 mm dia I/d, DI. Pipe 838 mtr. @ Rs. 1460/ mtr. | 12.23 |
| - | Providing, Laying, jointing and testing DI (Class K-9) pipe line including cost of excavation complete as per specifications. -150 mm dia I/d, DI. Pipe 50 mtr. @ Rs. 2040/ mtr. | 1.02 |
| - | Providing, Laying, jointing and testing DI (Class K-9) pipe line including cost of excavation complete as per specifications. -200 mm dia I/d, DI. Pipe 0 mtr. @ Rs. 2700/ mtr. | - |
| 2 | Providing & fixing of DI/CI sluice valve including cost brick masonry chamber complete in all respect. | |
| - | 100 mm dia I/d, 4 nos. @ Rs. 12000/- | 0.48 |
| - | 150 mm dia I/d, 2 nos. @ Rs. 15000/- | 0.30 |
| - | 200 mm dia I/d, 0 nos. @ Rs. 20000/- | |
| 3 | Providing and fixing sluice Valve including cost of surface box and masonry chamber etc. complete in all respect. | |
| - | 15 nos. @ Rs. 10000/- each | 1.50 |
| 4 | Providing and fixing of fire hydrants complete with masonry chamber. | |
| - | 17 nos. @ Rs. 15000/- each | 2.55 |
| 5 | Providing and fixing indicating plates for sluice valve and air valves. | |
| - | 18 nos. @ Rs. 2000 / each | 0.36 |
| 6 | Provision for rising main from main tubewell to U.G.S.T. tank. Providing, Laying, jointing and testing DI pipe line including cost of excavation complete as per specifications. | |
| a) | 100 mm dia -117 @ Rs.2040 / M | 2.39 |

For ARTTECH ELEGANT HOMES LLP

7	Provision for making connection with main HSVP water line to U.G. Tank a) 150 mm dia DI-K9 pipes i/d – 50 @ Rs. 1760 / M	1.06
8	Provision for connection from Main HSVP line. a) 150 mm dia DI-K9 pipes i/d – 50 @ Rs. 2750 / M	1.38
10	Providing for carriage of material	1.00
11	Provision for cutting of road and carriage of materials etc. and other unforeseen chargers (L.S.)	1.00
TOTAL		25.26
Add 3% for contingencies and P.E charges		0.76
TOTAL		26.02
Add 49% Departmental charges, price escalation unforeseen and administrator charges		12.75
TOTAL		38.77
SAY IN LACS		38.77

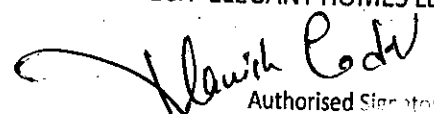
For ARITECH ELEGANT HOMES LLP

 Authorised Signatory

Sub - Work No. I**Sub Head No. 04****Water Supply
Flushing /
Irrigation Pipe
Amount in Rs.
(In Lacs)**

- | | | |
|---|---|--------------|
| 1 | Providing, Laying, jointing and testing HDPE Pipes pipe including cost of excavation complete as per specifications.
- 150 mm dia / HDPE, 0 m @ Rs. 2040 / Mtr.
- 100 mm dia / HDPE, 731 m @ Rs. 1179/ Mtr. | 0.00
8.62 |
| 2 | Providing and fixing HDPE sluice valves including cost of derrick masonry chambers complete in all.
- 150 mm dia 0 nos. @ Rs. 15000/- each
- 100 mm dia 10 nos. @ Rs. 12000/- each | 0.00
1.20 |
| 3 | Providing and fixing air valve & socur valves or socur taps including cost of brick masonry chamber.
- 12 Nos. @ 10000/ each | 1.20 |
| 4 | Providing and fixing indicating plates for for sluice valves air valve & socur valves etc.
- 20 Nos. @ 2000/ each | 0.40 |
| 5 | Providing and fixing 20mm dia Irrigation Hydrant 24 Nos. @ Rs. 5000/- each. | 1.20 |
| 6 | Provision for cutting of road and carriage of materials etc. and other unforeseen chargers. (L.S.). | 1.00 |

TOTAL 26.02**Add 3% for contingencies and P.E charges****0.78****TOTAL 26.80****Add 49% Departmental charges, price escalation unforeseen and administrator charges****13.13****TOTAL****39.93****SAY IN LACS****39.93**

For ARTTECH ELEGANT HOMES LLP


Authorized Signatory

Sub - Work No.II

Sewerage Scheme
Amount in Rs.
(In Lacs)

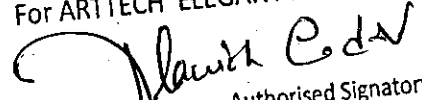
1	Providing, jointing, cutting and testing salt glaze Stoneware pipe and specials towering into trenches including cost of Excavation, bed concrete, cost of manholes etc. complete in all respect.	
a)	Stoneware pipe 150 mm i/d, avg. depth upto 2.0 M, - 0 M @ Rs. 1500 /- per mtr.	0.00
b)	Stoneware pipe 200 mm i/d, avg. depth upto 2.5 M, - 0 M @ Rs. 1700 /- per mtr.	0.00
c)	Stoneware pipe 250 mm i/d, avg. depth upto 2.5 M, - 191 M @ Rs. 2000 /- per mtr.	3.82
d)	Stoneware pipe 300 mm i/d avg. Depth 2.30 – 3.5 M, 199 M @ Rs. 2880 /- per mtr.	5.73
e)	Stoneware pipe 400 mm i/d avg. Depth 3.50 – 4.5 M, 108 M @ Rs. 3500 /- per mtr.	3.78
f)	Stoneware pipe 450 mm i/d avg. Depth 3.50 – 4.5 M, 78 M @ Rs. 4700 /- per mtr.	3.67
2	Provision for providing oblique junction (L.S)	1.00
3	Providing STP @ 16000/- per KLD - 220 KLD	35.20
4	Provision for timbering and shoring (L.S.)	1.00
5	Provision for cutting of road and carriage of materials etc. and other unforeseen chargers (L.S.)	3.00
6	Provision for over flow pipe from STP to HSVP main sewer line (L.S.)	1.00
7	Provision for connection over flow pipe from STP to HSVP line (L.S.)	2.00
	TOTAL	60.20
	Add 3% for contingencies and P.E charges	1.81
	TOTAL	62.00
	Add 49% Departmental charges, price escalation unforeseen and administrator charges	30.38
	TOTAL	92.38
	SAY IN LACS	92.38

For ARTECH ELEGANT HOMES LLP

Sub - Work No.III**Storm Water
Scheme****Amount in Rs,
(In Lacs)**

- | | | |
|-----|--|-------|
| 1.0 | Providing, jointing, cutting and testing RCC pipe class - NP3 and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc. complete. | |
| a) | NP3 R.C.C pipe 400 mm i/d, avg. Depth 2 M, 517 M @ Rs. 2500/- per mtr. | 12.93 |
| b) | NP3 R.C.C pipe 450 mm i/d, avg. Depth 2 M, 38 M @ Rs. 3500/- per mtr. | 1.33 |
| c) | NP3 R.C.C pipe 600 mm i/d, avg. Depth 2 M, 41 M @ Rs. 4850/- per mtr. | 1.99 |
| 2.0 | Provision for road gully chamber & pipe connection (L.S.) | 5.00 |
| 3.0 | Provision of Rain Water Harvesting pit arrangement for 4.525 Acre @ 1.2 Lacs per Acre. | 5.43 |
| 4.0 | Provision for lighting, watching and temporary diversion of traffic | 2.00 |
| 5.0 | Provision for cutting of road and carriage of materials etc. and other unforeseen chargers (L.S.) | 2.50 |
| 6.0 | Provision for Temp. Disposal arrangements till HSVP service are provided & over flow arrangement to HSVP line (L.S.) | 5.00 |
| 7.0 | Provision for making connection with HSVP on master line | 2.00 |
| 8.0 | Provision for timbering and shoring | 1.00 |

TOTAL 39.17**Add 3% for contingencies and P.E charges 1.18****TOTAL 40.35****Add 49% Departmental charges, price escalation unforeseen and administrator charges 19.77****TOTAL 60.12****SAY IN LACS 60.12**

For ARTECH ELEGANT HOMES LLP

Authorised Signatory

Sub - Work No. IV**Road Works****Amount in Rs.
(In Lacs)****1.0 Site Clearance**

1.1 Provision for construction of roads by providing granular sub base 200mm as per MORT & H specifications conforming to clause 401 grading-11 400.1

(i) 200mm GSB

(ii) 250mm thick stone aggregate

(iii) 50mm thick DBM with brimer coat @85kg/100 sq.m. & tack coats @30/100 sq.m.

(iv) 30mm thick B.C. 570 Sq.m. @ Rs. 1500/- per acres

8.55

2.0 Earth Work

2.1 Provision for levelling and earth filling as per site condition for 4.525 Acres @ Rs. 175000/- per acres

7.92

3.0 Miscellaneous Items

3.1 Construction of cement concrete kerband channels as per specifications (570 x 2) = 1140 mtr @ Rs. 600/- per mtr.

6.84

3.2 Provision & fixing guide map at selected location (L.S.)

1.00

3.3 Provision for demarcating burgies (L.S.)

1.00

3.4 Provision for parking or traffic arrangement. (L.S.)

2.00

3.5 Provision for carriage of material. (L.S.)

5.00

3.6 Construction of pavement arrangement in commercial area providing and laying 80mm cement concrete base (0.406 acre = 1644/2=822 sq.m. @ Rs. 1000 per sqm. (Pavement)

8.22

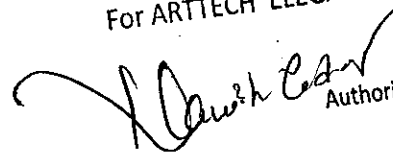
For ARTECH ELEGANT HOMES LLP



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3.7 Providing for parking with cement con. 1:2:4 100mm thick over cement conc 1:4:8 0.50 commercial area = 0.406 acre = 1644/2=822 sq.m. @ Rs. 1200 per sqm. (Parking)	9.86
TOTAL	50.39
Add 3% for contingencies and P.E charges	1.51
TOTAL	51.90
Add 49% Departmental charges, price escalation unforeseen and administrator charges	25.43
TOTAL	77.34
SAY IN LACS	77.34

For ARTTECH ELEGANT HOMES LLP


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Sub - Work No. V**Street Lighting****Amount in Rs.****(In Laacs)**

- 1 Providing street lighting on internal road as per standard specification of DHBVPNL in 4.525 acres @ Rs.2,50,000/- per acres

11.31

TOTAL**11.31****Add 3% for contingencies and P.E charges****0.34****TOTAL****11.65****Add 49% Departmental charges, price escalation unforeseen and administrator charges****5.71****TOTAL****17.36****SAY IN LACS****17.36**

For ARTTECH ELEGANT HOMES LLP


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Sub - Work No. VI

Horticulture

Amount in Rs.

(In Lacs)

1 Development of Lawn Areas (organized green of 0.90525 Acres or (3663.421 sq.mtr.)

- a) Trenching the ordinary soil up to depth of 60 cm. i/c removal & stacking of serviceable material and disposing by spreading & levelling within a lead of 50 m and making up the trenches area to proper leads by filling with earth or earth mixed with manure before and after flooring trench with water i/c cost of imported earth manure.
- b) Rough dressing of turfed area
- c) Grassing with "Doob grass" I/c watering and maintenance of lawns till the grass forms a thick lawn, free from weeds and fit mowing in rows 7.50 cm. apart in either direction including provision for hedges and barbed wire fencing around park and green belts (as per HSVP norms) Area approx, 0.90525 Acres or (3663.421 sq.mtr.) or @ Rs.150000/- per acre

1.36

2 Planting of trees with tree guards on roads at 12 mtr. Intervals on 6 m wide road

Total road length= 570 M

No. of trees @ 12 m c/c = $570 \times 2/12 = 95$ nos.

Cost details:

Excavation Rs. 120

Manure Rs. 180

Tree plant Rs. 300

Tree guard Rs. 1710

Total Rs.2310

95 Trees @ Rs. 2310/-each

2.19

TOTAL 3.55

Add 3% for contingencies and P.E charges

0.11

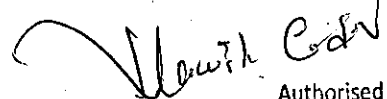
TOTAL 3.66

Add 49% Departmental charges, price escalation unforeseen and administrator charges

1.79

TOTAL 5.45**SAY IN LACS 5.45**

for ARTECH ELEGANT HOMES LLP



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Sub - Work No. VII

M/C Charges for
Services &
Resurfacing of
Roads

2nd phase after 5 year of 1st phase

Amount in Rs.
(In Lacs)

1	Providing of M/C charges for water supply, Storm water drainage, sewerage, Roads, Street lighting, Horticulture etc. complete in all aspect, including Operational and establishment charges as per HSVP norms after completion and resurfacing of roads after 10 years. 4.525 acres @ Rs.8.0 lacs per acre	36.20
2	Providing of resurfacing of roads after 1 st 5 years of maintenance i.e. 100 mm thick B.M, 100 mm thick BUSG complete to 25 mm thick premix carpet with mechanical paver. 3422 sqm @ Rs.660/- per sqm.	22.59
3	Resurfacing of roads after 10 years of maintenance by 25 mm thick premix carpet with seal coat with mech. Paver 3422 sqm @ Rs.825/- per sqm.	28.23
TOTAL		87.02
	Add 3% for contingencies and P.E charges	2.61
TOTAL		89.63
	Add 49% Departmental charges, price escalation unforeseen and administrator charges	43.92
TOTAL		133.54
SAY IN LACS		133.54

FOR ARITECH ELEGANT HOMES LLP

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ELEGANT HOMES LLP


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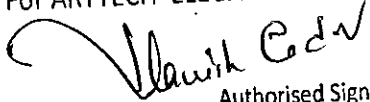
**PROJECT : Proposed Building for Retirement Housing Colony over an area measuring 4.525 Acres
(License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex
being Developed by M/s. ARTTECH Elegend Homes LLP**

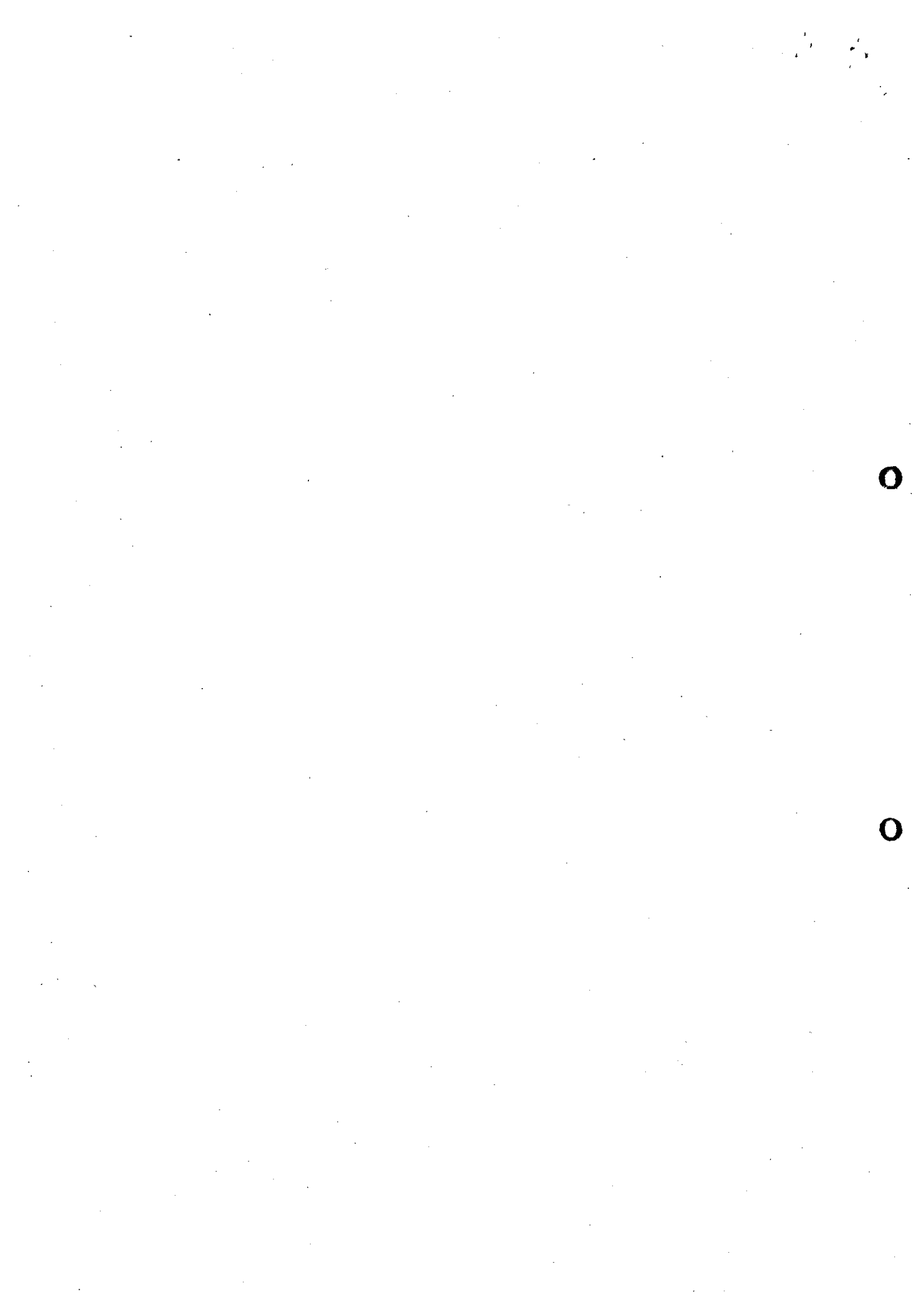
Material Statement – External Water Supply (Irrigation / Flushing Line) (HDPE PIPE)

Sl. No.	Line No.		Size of pipe (in mm)	Length of Pipe (In Mtr.)	Length of Pipe in mtr.				
	From	TO			80 Ø	100 Ø	150 Ø	200 Ø	
A.	IRRIGATION/FLUSHING LINE								
1	GH-1	GH-2	100	30		30			
2	GH-2	GH-3	100	30		30			
3	GH-3	GH-4	100	30		30			
4	GH-4	GH-5	100	30		30			
5	GH-5	GH-6	100	30		30			
6	GH-6	GH-7	100	30		30			
7	GH-7	GH-8	100	30		30			
8	GH-8	GH-9	100	30		30			
9	GH-9	GH-10	100	30		30			
10	GH-10	GH-11	100	51		51			
11	GH-11	GH-1	100	30		30			
12	GH-1	GH-12	100	25		25			
13	GH-12	GH-13	100	30		30			
14	GH-13	GH-14	100	30		30			
15	GH-14	GH-15	100	30		30			
16	GH-15	GH-16	100	26		26			
17	GH-16	GH-17	100	15		15			
18	GH-17	GH-18	100	17		17			
19	GH-18	GH-19	100	30		30			
20	GH-19	GH-20	100	30		30			
21	GH-20	GH-21	100	30		30			
22	GH-21	GH-22	100	22		22			
23	GH-22	GH-23	100	30		30			
24	GH-23	GH-24	100	35		35			
25	GH-24	GH-12	100	30		30			
	TOTAL					0	731	0	0

GARDEN HYDRANT LINE

**NOTE: Garden Hydrant is located at at distance of 30 m
No. of Garden Hydrant = 24**

For ARTTECH ELEGANT HOMES LLP

Authorised Signatory



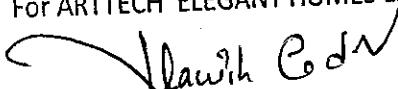
PROJECT Proposed Building for Retirement Housing Colony over an area measuring 4.525 Acres (License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex being Developed by M/s. ARTTECH Elegant Homes LLP

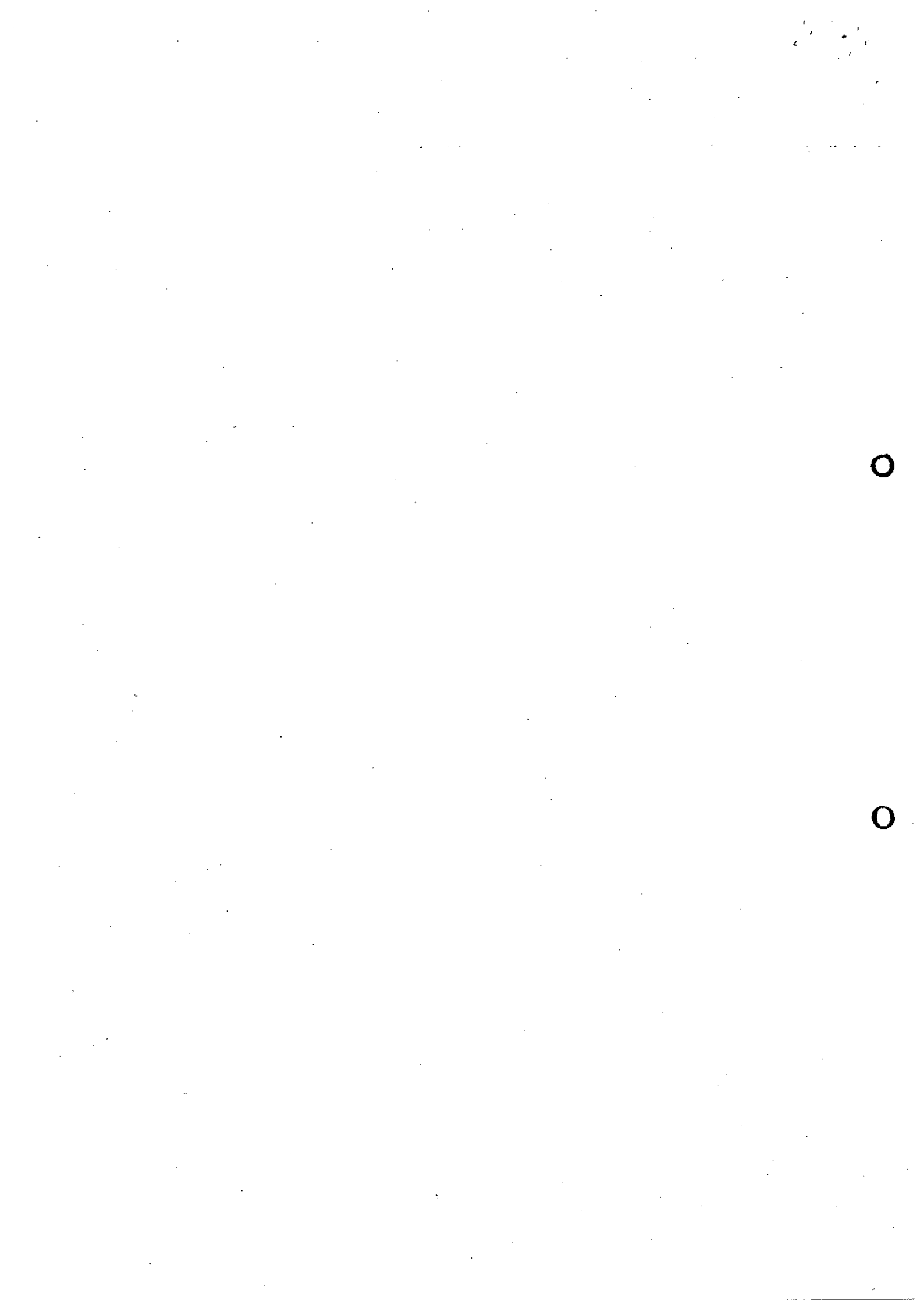
MATERIAL STATEMENT

SEWAGE DRAINAGE QUANTITY

Sl. No.	Line No.		Size of Pipe	Length of Pipe	Length in mtr.							
			(In mm.)	(In Mtr)	150 Ø	200 Ø	250 Ø	300 Ø	350 Ø	400 Ø	450 Ø	
1	S1	S2	250	19.1			19.1					
2	S2	S3	250	19.1			19.1					
3	S3	S4	250	21.0			21.0					
4	S4	S5	250	8.1			8.1					
5	S5	S6	250	13.5			13.5					
6	S6	S7	300	14.6				14.6				
7	S7	S8	300	13.8				13.8				
8	S8	S9	300	9.8				9.8				
9	S9	S10	300	14.1				14.1				
10	S10	S11	300	14.1				14.1				
11	S11	S12	300	14.1				14.1				
12	S12	S13	300	12.5				12.5				
13	S14	S15	250	14.1			14.1					
14	S15	S16	250	14.1			14.1					
15	S16	S17	250	10.0			10.0					
16	S17	S18	250	9.8			9.8					
16	S18	S19	300	16.6				16.6				
17	S19	S20	300	16.0				16.0				
18	S20	S21	300	5.7				5.7				
19	S21	S22	300	12.8				12.8				
20	S22	S23	300	12.2				12.2				
21	S23	S24	300	11.3				11.3				
22	S24	S25	400	11.3						11.3		
23	S25	S26	400	9.9						9.9		
24	S26	S27	400	9.9						9.9		
25	S27	S28	400	9.9						9.9		
26	S28	S13	400	9.1						9.1		
27	S13	S30	400	31.5						31.5		
28	S29	S30	250	14.1			14.1					
29	S30	S31	400	12.9						12.9		
30	S31	S32	400	13.4						13.4		
31	S32	S33	450	19.1							19.1	
32	S33	S34	450	19.1							19.1	
33	S34	S35	450	12.5							12.5	
34	S35	S36	450	12.3							12.3	
35	S36	S37	450	12.7							12.7	
36	S37	STP	450	1.6							1.6	
37	S38	S39	250	9.7			9.7					
38	S39	S40	250	19.1			19.1					
39	S40	S41	250	18.4			18.4					
40	S41	S42	300	13.4				13.4				
41	S42	S43	300	10.8				10.8				
42	S43	STP	300	6.3				6.3				
TOTAL						0.0	0.0	190.2	198.2	0.0	107.8	77.2
SAY						0	0	191	199	0	108	78

For ARTTECH ELEGANT HOMES LLP


 Authorised Signatory



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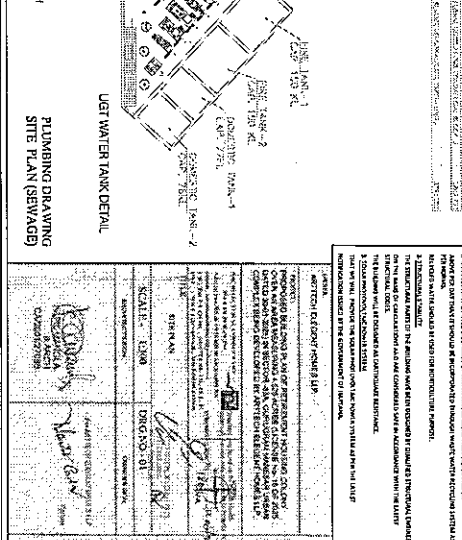
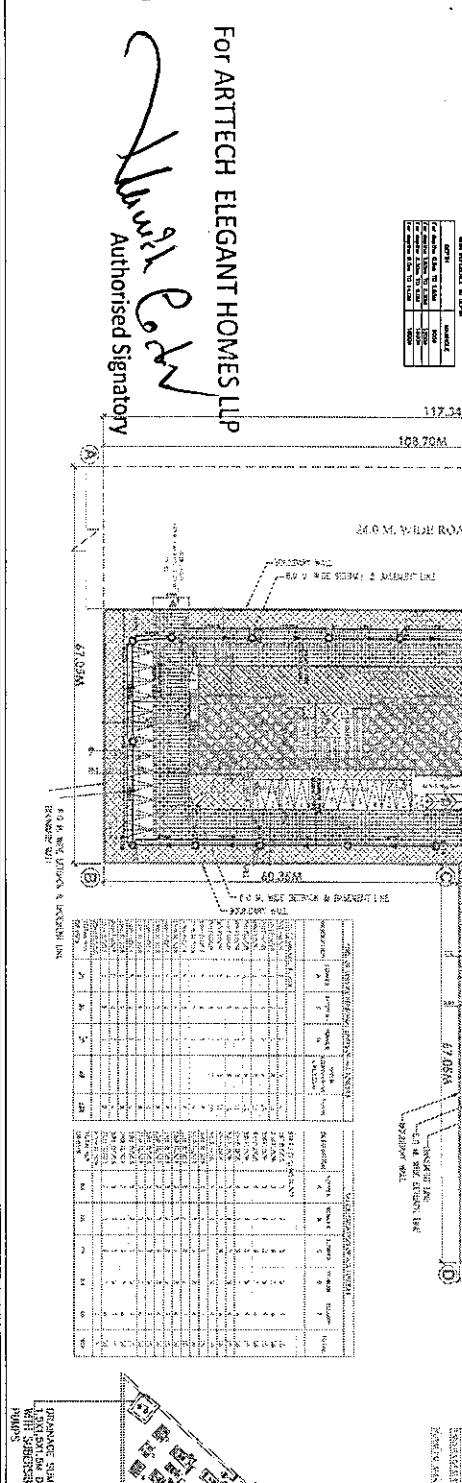
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NO.	DESCRIPTION	DATE	BY	CHECKED	SCALE
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PROJECT : Proposed Building for Retirement Housing Colony over an area measuring 4.525 Acres (License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex being Developed by M/s. ARTTECH Elegant Homes LLP
HYDRAULIC DESIGN STATEMENT OF WATER SUPPLY LOAD CALCULATION)

Sl.No.	Name of pipe line	No. of Units	Population @3 person per unit	Water requirement@155.25 Liter/head/day IN KLD	Water requirement for non residential plots/units				Gross requirement in KLPD	Gross requirement in LPD
					Unit area in acres	Type of building	Basis of water requirement KL per acres	Total water requirement KL		
1	UGT	10	30	4.66				0	4.66	4657.50
2	WS1	18	54	8.38				0	8.38	8383.50
3	WS2	12	36	5.59				0	5.59	5589.00
4	WS3	14	42	6.52				0	6.52	6520.50
5	WS4	14	42	6.52				0	6.52	6520.50
6	WS5	16	48	7.45				0	7.45	7452.00
7	WS6	18	54	8.38				0	8.38	8383.50
8	WS7	24	72	11.18				0	11.18	11178.00
9	WS1	22	22	3.42				0	3.42	3415.50
10	WS8	32	32	4.97				0	4.97	4968.00
11	WS13	32	96	14.90				0	14.90	14904.00
12	WS10	28	81.2	12.61				0	12.61	12606.30
13	WS11	34	34	5.28				0	5.28	5278.50
14	WS12	36	36	5.59				0	5.59	5589.00
15	WS13	38	38	5.90				0	5.90	5899.50
16	WS14	30	90	13.97				0	13.97	13972.50
17	WS15	28	84	13.04				0	13.04	13041.00
18	WS16	28	84	13.04				0	13.04	13041.00
19	WS17	20	60	9.32					9.32	9315.00
20	WS18	12	36	5.59					5.59	5589.00
	TOTAL	466	1071.2	166.30					166.30	166303.80
1					0.406	COMMERCIAL	32	12.99	12.99	12992.00
2					0.210	COMMUNITY	25	5.25	5.25	5250.00

FOR ARTTECH ELEGANT HOMES LLP

Abhinav Choudhary
 Authorised Signatory

Water supply load

INTEGRAL DESIGNS

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O

WATER SUPPLY/HSV/RIISING MAINS/TUBEWELL/ STP/FIRE RISER DESIGNS

Sl. No.	DESTINATION		Water requirement per day			Flow consideration	Flow (liter per Hour)	Flow (liter per Minute)	Flow (Cu Mtr. per Second)	Velocity			Size of Pipe		Length of Pipe (m)	Friction Loss in Pipe	Ground lvl	Static Head	Head at Higher Level	Head at Higher Level
	Unit	TO	Self	Additional	Total					HR	lph	lpm	CM/SEC	FT/SEC						
MATERIAL & DESIGN STATEMENT OF MUNICIPAL LINE																				
1	M1	UGT	0	415000	415000	12	34583	576	0.010	0.684	2.244	0.134	150	50	0.01	0.14	0.00	5	5.14	5.14
MATERIAL & DESIGN STATEMENT OF TUBEWELL RISING MAIN																				
2	TW1	UGT					22500	375.00	0.006	1.50	4.920	0.073	100	117	0.11	1.06	0.00	5	6.06	6.06
Sewage rising main from STP overflow line to main sewage line = 40 mtrs.																				
MATERIAL & DESIGN STATEMENT FOR WATER SUPPLY DISTRIBUTION SYSTEM																				
1	UGT	WS1	46747	2187	48934	8	6117	101.95	0.0017	1.00	3.280	0.047	100	46.7	0.004	0.038	0.0001	5	5.04	5.04
2	WS1	WS2	95768	1458	97226	8	12153	202.55	0.0034	1.00	3.280	0.066	100	95.8	0.028	0.278	0.0077	5	5.28	5.28
3	WS2	WS3	47590	2916	50506	8	6313	105.22	0.0018	1.00	3.280	0.047	100	47.6	0.004	0.041	0.0002	5	5.04	5.04
4	WS3	WS4	29005	2187	31192	8	3899	64.98	0.0011	1.00	3.280	0.037	100	29.0	0.001	0.010	0.0000	5	5.01	5.01
5	WS4	WS5	39469	2916	42385	8	5298	88.30	0.0015	1.00	3.280	0.043	100	39.5	0.002	0.025	0.0001	5	5.02	5.02
6	WS5	WS6	19843	2916	22759	8	2845	47.41	0.0008	1.00	3.280	0.032	100	19.8	0.000	0.004	0.0000	5	5.00	5.00
7	WS6	WS7	72127	1458	73585	8	9198	153.30	0.0026	1.00	3.280	0.057	100	72.1	0.012	0.125	0.0016	5	5.12	5.12
8	WS7	WS1	46747	2916	49663	8	6208	103.46	0.0017	1.00	3.280	0.047	100	46.7	0.004	0.039	0.0002	5	5.04	5.04
9	WS1	WS8	24760	5103	29863	8	3733	62.21	0.0010	1.00	3.280	0.036	100	24.8	0.001	0.008	0.0000	5	5.01	5.01
10	WS8	WS9	24287	4374	28661	8	3583	59.71	0.0010	1.00	3.280	0.036	100	24.3	0.001	0.007	0.0000	5	5.01	5.01
11	WS9	WS10	33060	1458	34518	8	4315	71.91	0.0012	1.00	3.280	0.039	100	33.1	0.001	0.014	0.0000	5	5.01	5.01
12	WS10	WS11	14362	1458	15820	8	1978	32.96	0.0005	1.00	3.280	0.026	100	14.4	0.000	0.001	0.0000	5	5.00	5.00
13	WS11	WS12	47090	1458	48548	8	6069	101.14	0.0017	1.00	3.280	0.046	100	47.1	0.004	0.038	0.0001	5	5.04	5.04
14	WS12	WS13	14557	6561	21118	8	2640	44.00	0.0007	1.00	3.280	0.031	100	14.6	0.000	0.003	0.0000	5	5.00	5.00
15	WS13	WS14	67066	5832	72898	8	9112	151.87	0.0025	1.00	3.280	0.057	100	67.1	0.011	0.114	0.0013	5	5.11	5.11
16	WS14	WS15	60350	5103	65453	8	8182	136.36	0.0023	1.00	3.280	0.054	100	60.4	0.008	0.084	0.0007	5	5.08	5.08
17	WS15	WS16	42390	4374	46764	8	5846	97.43	0.0016	1.00	3.280	0.045	100	42.4	0.003	0.032	0.0001	5	5.03	5.03
18	WS16	WS17	44215	4374	48589	8	6074	101.23	0.0017	1.00	3.280	0.046	100	44.2	0.004	0.036	0.0001	5	5.04	5.04
19	WS17	WS18	63825	1458	65283	8	8160	136.01	0.0023	1.00	3.280	0.054	100	63.8	0.009	0.089	0.0008	5	5.09	5.09
20	WS18	WS8	4718	1458	6176	8	772	12.87	0.0002	1.00	3.280	0.017	100	4.7	0.000	0.000	0.0000	5	5.00	5.00

FOR ARTECH ELEGANT HOMES LLP

Abhishek Edm
 Authorised Signatory

Rising Main Cal

INTEGRAL DESIGNS

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DESIGN CHART FOR SEWAGE SYSTEM
 BASED ON MANNINGS FORMULA WHERE VALUE OF 'n' = 0.013 (Concrete Pipe)

S.L. NO	LINE NO.	Total population @ 2 person unit & 2 for care taker	155.25 fixed for dwelling unit & 25 for community & 32 for commercial	Sewerage flow @ 80%	SEWER DISCHARGE IN KLD	PREVIOUS DISCHARGE	PROGRESSIVE DISCHARGE	KLD	KLD	KLD	FINAL DISCHARGE	FINAL DISCHARGE	MTR	MM	SLOPE	FALL IN LINE	VELOCITY	CAPACITY	GROUND LEVEL		INVERT LEVEL		DEPTH OF RIB AT		AVERAGE DEPTH OF PIPE	REMARK
																			U/End	L/End	U/End	L/End	U/End	L/End		
1	II	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
2	S2	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
3	S3	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
4	S4	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
5	S5	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
6	S6	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
7	S7	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
8	S8	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
9	S9	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	19.100	250	195	0.098	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	997.95	948.97	
10	S10	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	14.100	300	250	0.056	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
11	S11	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	14.100	300	250	0.056	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
12	S12	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	14.100	300	250	0.056	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
13	S13	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	14.100	300	250	0.056	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
14	S14	14	6520.50	5216.40	5.216	0.000	5.216	15.65	1.3041	16.95	0.1962	14.100	250	195	0.072	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
15	S15	16	7456.00	5974.40	5.974	0.000	5.974	17.92	1.4995	19.52	0.2292	14.100	250	195	0.051	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
16	S16	16	7456.00	5974.40	5.974	0.000	5.974	17.92	1.4995	19.52	0.2292	14.100	250	195	0.051	0.88	21.678	350.000	350.000	-550.00	-550.00	900.00	900.00	956.40	928.20	
17	S17	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	16.611	300	250	0.066	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	964.16	928.20	
18	S18	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	16.611	300	250	0.066	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	964.16	928.20	
19	S19	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	16.039	300	250	0.064	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	922.79	911.40	
20	S20	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	12.819	300	250	0.023	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	951.28	924.41	
21	S21	6	1863.00	1490.40	1.490	0.000	1.490	4.47	0.3726	4.84	0.0561	12.819	300	250	0.049	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	948.82	924.41	
22	S22	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	11.273	300	250	0.045	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	945.09	922.55	
23	S23	14	6520.50	5216.40	5.216	0.000	5.216	15.65	1.3041	16.95	0.1962	11.273	400	360	0.031	0.89	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	931.31	915.66	
24	S24	14	6520.50	5216.40	5.216	0.000	5.216	15.65	1.3041	16.95	0.1962	11.273	400	360	0.031	0.89	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	931.31	915.66	
25	S25	20	10100.00	8160.00	8.160	0.000	8.160	24.84	2.484	28.84	0.2484	9.864	400	360	0.027	0.89	35.699	350.000	350.000	-550.00	-550.00	900.00	900.00	927.40	913.70	
26	S26	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	9.864	400	360	0.025	0.89	35.699	350.000	350.000	-550.00	-550.00	900.00	900.00	925.17	912.50	
27	S27	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	9.864	400	360	0.025	0.89	35.699	350.000	350.000	-550.00	-550.00	900.00	900.00	925.17	912.50	
28	S28	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	12.889	400	360	0.036	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	922.31	916.15	
29	S29	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	12.889	400	360	0.036	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	922.31	916.15	
30	S30	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	12.889	400	360	0.036	0.88	31.095	350.000	350.000	-550.00	-550.00	900.00	900.00	922.31	916.15	
31	S31	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	13.449	400	360	0.037	0.89	35.699	350.000	350.000	-550.00	-550.00	900.00	900.00	927.36	918.68	
32	S32	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	13.449	400	360	0.037	0.89	35.699	350.000	350.000	-550.00	-550.00	900.00	900.00	927.36	918.68	
33	S33	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	12.111	450	400	0.048	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	947.75	923.88	
34	S34	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	12.111	450	400	0.048	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	947.75	923.88	
35	S35	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	12.111	450	400	0.048	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	947.75	923.88	
36	S36	12	5589.00	4471.20	4.471	0.000	4.471	13.41	1.1178	14.53	0.1682	12.111	450	400	0.048	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	947.75	923.88	
37	S37	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	12.310	450	400	0.032	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	931.66	915.83	
38	S38	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	12.310	450	400	0.032	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	931.66	915.83	
39	S39	10	4657.50	3726.00	3.726	0.000	3.726	11.18	0.9315	12.11	0.1402	12.310	450	400	0.032	0.91	72.283	350.000	350.000	-550.00	-550.00	900.00	900.00	931.66		



DESIGN CHART FOR STORM WATER DRAINAGE SYSTEM

BASED ON MANNINGS FORMULA WHERE VALUE OF 'n'=0.015 (R.C.C Pipe), DESIGN INTENSITY = 1/4" PER HOUR

SL. NO	LINE NO.		AREA SERVED BY THE LINE (SQM)	AREA SERVED BY THE LINE (ACRES)			DISCHARGE @ 0.25 CUSECS PER ACRE (CUSECS)	SIZE OF PIPE (IN MM)	VELOC. (M/SEC)	CAPACITY OF PIPE (CUSECS)	DESIGN VELOCITY (M/SEC)	LENGTH OF PIPE (M)	SLOPE IN	FALL IN MM	GROUND LEVEL		INVERT LEVEL		DEPTH OF PIPE AT		AVERAGE DEPTH OF MENHOLE (In mm)	REMARKS	
	START	END		SELF	BRANC H	TOTAL									U/End	I/End	U/End	I/End	U/End	I/End			U/End
	II	III	IV	V	VI	VII	(CUSECS)	M	M/SEC	(CUSECS)	M/SEC	(M)	XIV	XV	(In mm)	(In mm)	(In mm)	(In mm)	(In mm)	(In mm)	(In mm)	(In mm)	
1	R1	R2	351	0.0867	0.0000	0.0867	0.0217	400	0.77	3.379	0.762	12.83	360	0.036	350.00	350.00	-550.00	-585.64	900.00	935.64	918		
2	R2	R3	317	0.0783	0.0867	0.1651	0.0413	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
3	R3	R4	382	0.0944	0.1651	0.2595	0.0649	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
4	R4	R5	346	0.0855	0.2395	0.3449	0.0862	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
5	R5	R6	300	0.0741	0.3449	0.4191	0.1048	400	0.77	3.379	0.762	12.00	360	0.033	350.00	350.00	-550.00	-583.33	900.00	933.33	917		
6	R6	R7	331	0.0818	0.4191	0.5009	0.1252	400	0.77	3.379	0.762	10.32	360	0.029	350.00	350.00	-550.00	-578.67	900.00	928.67	914		
7	R7	RWH	412	0.1018	0.5009	0.6027	0.1507	400	0.77	3.379	0.762	20.00	360	0.056	350.00	350.00	-500.00	-605.56	900.00	955.56	928		
8	R8	R9	320	0.0791	0.6027	0.6817	0.1704	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
9	R9	R10	350	0.0865	0.6817	0.7682	0.1921	400	0.77	3.379	0.762	17.03	360	0.047	350.00	350.00	-550.00	-597.31	900.00	947.31	924		
10	R10	R7	350	0.0865	0.7682	0.8547	0.2137	400	0.77	3.379	0.762	10.21	360	0.028	350.00	350.00	-550.00	-578.35	900.00	928.35	914		
11	R11	R12	650	0.1606	0.8547	1.0153	0.2538	400	0.77	3.379	0.762	10.24	360	0.028	350.00	350.00	-550.00	-578.44	900.00	928.44	914		
12	R12	R13	750	0.1853	1.0153	1.2006	0.3002	400	0.77	3.379	0.762	11.78	360	0.033	350.00	350.00	-550.00	-582.73	900.00	932.73	916		
13	R13	R14	315	0.0778	1.2006	1.2785	0.3196	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
14	R14	R15	390	0.0964	1.2785	1.3748	0.3437	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
15	R15	R16	385	0.0951	1.3748	1.4700	0.3675	400	0.77	3.379	0.762	9.57	360	0.027	350.00	350.00	-550.00	-576.58	900.00	926.58	913		
16	R16	RWH	360	0.0890	1.4700	1.5589	0.3897	400	0.77	3.379	0.762	2.00	360	0.006	350.00	350.00	-550.00	-555.56	900.00	905.56	903		
17	R17	R18	640	0.1581	1.5589	1.7171	0.4293	400	0.77	3.379	0.762	9.81	360	0.027	350.00	350.00	-550.00	-577.26	900.00	927.26	914		
18	R18	R19	445	0.1100	1.7171	1.8270	0.4568	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
19	R19	R20	515	0.1273	1.8270	1.9543	0.4886	400	0.77	3.379	0.762	12.37	360	0.034	350.00	350.00	-550.00	-584.36	900.00	934.36	917		
20	R20	R16	660	0.1631	1.9543	2.1174	0.5293	400	0.77	3.379	0.762	3.52	360	0.010	350.00	350.00	-550.00	-559.77	900.00	909.77	905		
21	R21	R22	390	0.0964	2.1174	2.2137	0.5534	400	0.77	3.379	0.762	19.63	360	0.055	350.00	350.00	-550.00	-604.54	900.00	954.54	927		
22	R22	R23	350	0.0865	2.2137	2.3002	0.5751	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
23	R23	R24	365	0.0902	2.3002	2.3904	0.5976	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
24	R24	R25	360	0.0890	2.3904	2.4794	0.6198	400	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
25	R25	R26	370	0.0914	2.4794	2.5708	0.6427	450	0.79	4.385	0.781	14.10	400	0.035	350.00	350.00	-550.00	-585.25	900.00	935.25	918		
26	R26	R27	349	0.0862	2.5708	2.6570	0.6643	450	0.79	4.385	0.781	12.74	400	0.032	350.00	350.00	-550.00	-581.86	900.00	931.86	916		

FOR ARTECH ELEGANT HOMES
 Shyam Wadhwa
 Manoj K. Eddy

SL. NO.	LINE NO.			AREA SERVED BY THE LINE (SQM)	AREA SERVED BY THE LINE (ACRES)			DISCHARGE @ 0.25 CUSECS PER ACRE (CUSECS)	SIZE OF PIPE (IN MM)	VELOCITY (M/SEC)	CAPACITY OF PIPE (CUSECS)	DESIGN VELOCITY (M/SEC)	LENGTH OF PIPE (M)	SLOPE IN	FALL IN MM	GROUND LEVEL		INVERT LEVEL		DEPTH OF PIPE AT		AVERAGE DEPTH OF MENHOLE (IN MM)	REMARKS	
	START	END	SELF		BRANCH	TOTAL	U/End									L/End	U/End	L/End	U/End	L/End	U/End			L/End
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII	XXIV
27	R27	R28	R38	389	0.0961	0.0000	0.0961	0.2240	4.50	0.79	4.385	0.781	11.17	400	0.028	350.00	350.00	-550.00	-577.93	900.00	927.93	914		
28	R28	RWH	R35	395	0.0976	0.0961	0.1937	0.0484	4.00	0.77	3.379	0.762	5.00	560	0.014	350.00	350.00	-550.00	-563.89	900.00	913.89	907		
29	R29	R30	R30	350	0.0865	0.1937	0.2802	0.0701	4.00	0.77	3.379	0.762	13.77	360	0.038	350.00	350.00	-550.00	-588.25	900.00	938.25	919		
30	R30	R31	R31	285	0.0704	0.2802	0.3506	0.0877	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
31	R31	R32	R32	255	0.0630	0.3506	0.4136	0.1034	4.00	0.77	3.379	0.762	7.41	360	0.021	350.00	350.00	-530.00	-570.58	900.00	920.58	910		
32	R32	R33	R33	530	0.1310	0.4136	0.5446	0.1362	4.00	0.77	3.379	0.762	11.70	360	0.033	350.00	350.00	-550.00	-582.51	900.00	932.51	916		
33	R33	R34	R34	370	0.0914	0.0000	0.0914	0.0229	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
34	R34	R35	R35	380	0.0939	0.0914	0.1853	0.0463	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
35	R35	RWH	R37	380	0.0939	0.1853	0.2792	0.0698	4.00	0.77	3.379	0.762	4.00	360	0.011	350.00	350.00	-550.00	-561.11	900.00	911.11	906		
36	R36	R37	R37	340	0.0840	0.2792	0.3632	0.1707	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
37	R37	R38	R38	332	0.0820	0.3632	0.4452	0.1913	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
38	R38	R39	R39	340	0.0840	0.4452	0.5292	0.2123	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
39	R39	R40	R40	450	0.1112	0.5292	0.6404	0.2401	4.00	0.77	3.379	0.762	9.10	360	0.025	350.00	350.00	-550.00	-575.29	900.00	925.29	913		
40	R40	R41	R41	305	0.0754	0.6404	0.7158	0.2589	4.00	0.77	3.379	0.762	9.33	360	0.026	350.00	350.00	-550.00	-575.93	900.00	925.93	913		
41	R41	R42	R42	380	0.0939	0.7158	0.8097	0.2824	4.00	0.77	3.379	0.762	4.52	360	0.013	350.00	350.00	-550.00	-562.55	900.00	912.55	906		
42	R42	R50	R50	195	0.0482	0.8097	0.8579	0.2944	4.00	0.77	3.379	0.762	8.64	360	0.024	350.00	350.00	-550.00	-574.01	900.00	924.01	912		
43	R43	R44	R44	105	0.0239	0.8579	0.8818	0.3009	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
44	R44	R45	R45	535	0.1322	0.8818	1.0140	0.3340	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
45	R45	R46	R46	432	0.1067	0.9000	1.0067	0.267	4.00	0.77	3.379	0.762	14.10	360	0.039	350.00	350.00	-550.00	-589.17	900.00	939.17	920		
46	R46	R47	R47	190	0.0469	1.0067	1.0536	0.0384	4.00	0.77	3.379	0.762	13.84	360	0.038	350.00	350.00	-550.00	-588.45	900.00	938.45	919		
47	R47	R48	R48	90	0.0222	1.0536	1.0758	0.0440	4.50	0.79	0.76	12.980	14.26	400	0.036	350.00	350.00	-550.00	-585.65	900.00	935.65	918		
48	R48	R49	R49	250	0.0618	1.0758	1.1376	0.0594	4.50	0.79	0.76	12.980	14.10	400	0.035	350.00	350.00	-550.00	-585.25	900.00	935.25	918		
49	R49	R50	R50	180	0.0445	0.2377	0.2822	0.0705	4.50	0.79	0.76	12.980	10.98	400	0.027	350.00	350.00	-550.00	-577.44	900.00	927.44	914		
48	R50	RWH	RWH	102	0.0252	0.1759	0.2011	0.0503	4.50	0.79	0.76	12.980	2.00	400	0.005	350.00	350.00	-550.00	-555.00	900.00	905.00	903		

FOR ARTECH ELEGANT HOMES LLP

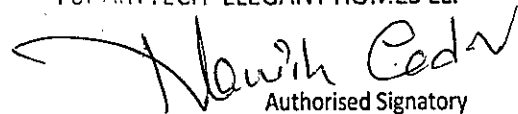
Manish
 Authorised Signatory

PROJECT : Proposed Building for Retirement Housing Colony over an area measuring 4.525 Acres (License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex being Developed by M/s. ARTTECH Elegant Homes LLP

ROAD AREA CALCULATION (6 M wide road)

S. No.	ROAD NO.	LENGTH	WIDTH	METAL	AREA (SQM)
		(M)	(M)	PORTION IN (M)	(M)
1	R1 - R2	73.44	6.0	6.0	440.66
2	R2 - R3	45.29	6.0	6.0	271.72
3	R3 - R4	6.33	6.0	6.0	37.95
4	R4 - R5	107.43	6.0	6.0	644.57
5	R6 - R7	68.50	6.0	6.0	411.02
6	R7 - R8	42.56	6.0	6.0	255.34
7	R8 - R9	7.40	6.0	6.0	44.38
8	R9 - R10	67.77	6.0	6.0	406.59
9	R11 - R12	33.23	6.0	6.0	199.38
10	R12 - R6	91.20	6.0	6.0	547.20
	TOTAL	543.00			3258.82
	Add 5% for curves	27.15			162.94
	Total	570.15			3421.76
	Say	570		Sqm	3422
	Length of kerb =	1140			

For ARTTECH ELEGANT HOMES LLP


 Authorised Signatory



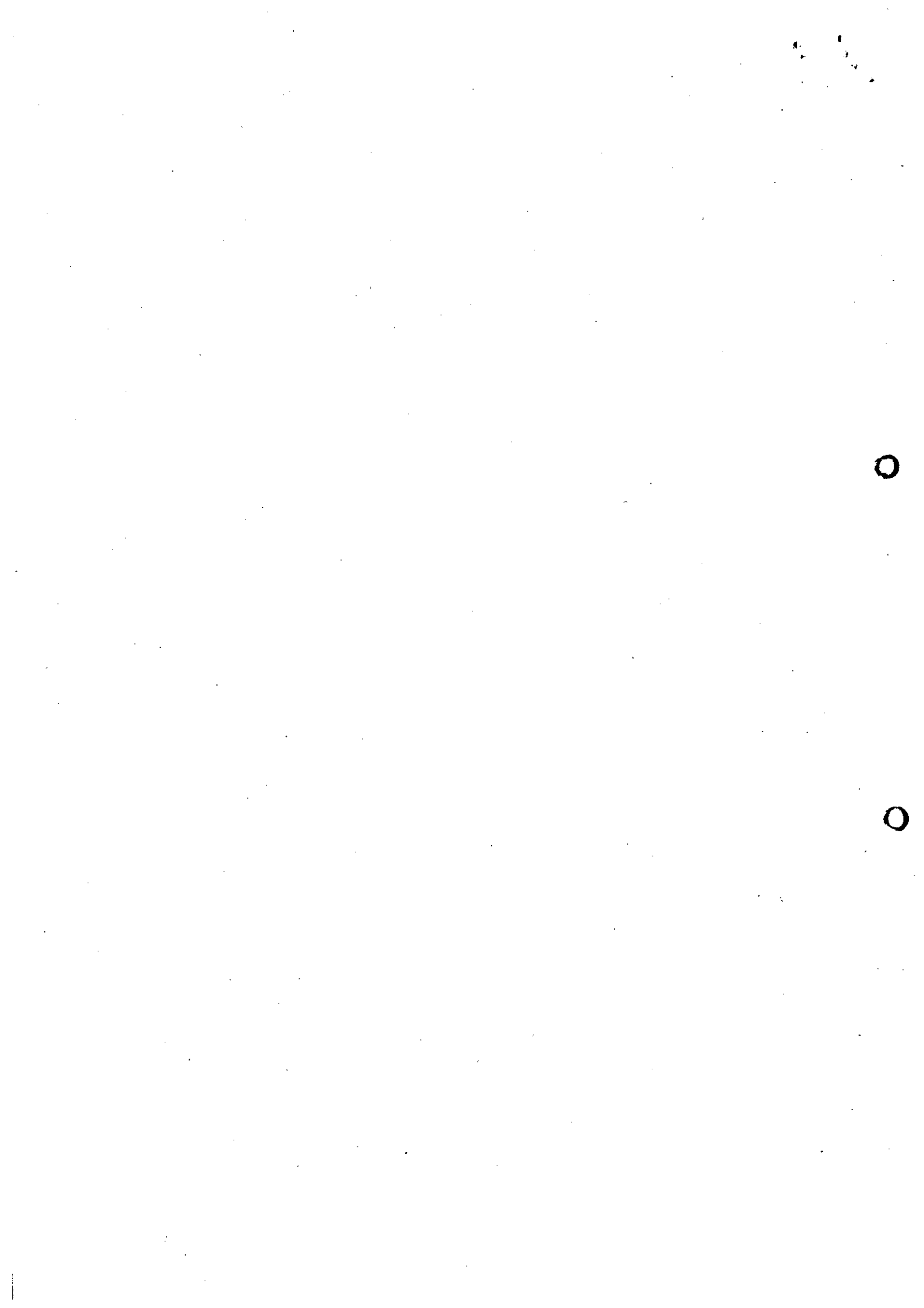
PROJECT : Proposed Building for Retirement Housing Colony over an area measuring 4.525 Acres (License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex being Developed by M/s. ARTTECH Elegent Homes LLP

Material Statement - Water Supply (Distribution System)

Sl. No.	Line No.		Size of pipe (in mm)	Length of Pipe (In Mtr.)	Length of Pipe in mtr.				
	From	TO			80 Ø	100 Ø	125 Ø	160 Ø	200 Ø
1	UGT	WS1	100	46.7		46.7			
2	WS1	WS2	100	95.8		95.8			
3	WS2	WS3	100	47.6		47.6			
4	WS3	WS4	100	29.0		29.0			
5	WS4	WS5	100	39.5		39.5			
6	WS5	WS6	100	19.8		19.8			
7	WS6	WS7	100	72.1		72.1			
8	WS7	WS1	100	46.7		46.7			
9	WS1	WS8	100	24.8		24.8			
10	WS8	WS9	100	24.3		24.3			
11	WS9	WS10	100	33.1		33.1			
12	WS10	WS11	100	14.4		14.4			
13	WS11	WS12	100	47.1		47.1			
14	WS12	WS13	100	14.6		14.6			
15	WS13	WS14	100	67.1		67.1			
16	WS14	WS15	100	60.4		60.4			
17	WS15	WS16	100	42.4		42.4			
18	WS16	WS17	100	44.2		44.2			
19	WS17	WS18	100	63.8		63.8			
20	WS18	WS8	100	4.7		4.7			
	TOTAL				0	838	0	0	0

For ARTTECH ELEGANT HOMES LLP


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**PROJECT : Proposed Building for Retirement Housing Colony over an area measuring 4.525 Acres
(License No.-16 of 2025 Dated 30-01-2025) in Sector-89A, Gurugram, Manesar Urban Complex being
Developed by M/s. ARTTECH Elegant Homes LLP**

**MATERIAL STATEMENT
STORM WATER DRAINAGE**

STORM WATER DRAINAGE QUANTITY

Sl. No.	Line No.		Size of pipe (in mm)	Length of Pipe (In Mtr.)	Length of Pipe in mtr.			
	From	TO			400 Ø	450 Ø	500 Ø	600 Ø
1	R1	R2	400	12.8	12.8			
2	R2	R3	400	14.1	14.1			
3	R3	R4	400	14.1	14.1			
4	R4	R5	400	14.1	14.1			
5	R5	R6	400	12.0	12.0			
6	R6	R7	400	10.3	10.3			
7	R7	RWH	400	20.0	20.0			
8	R8	R9	400	14.1	14.1			
9	R9	R10	400	17.0	17.0			
10	R10	R7	400	10.2	10.2			
11	R11	R12	400	10.2	10.2			
12	R12	R13	400	11.8	11.8			
13	R13	R14	400	14.1	14.1			
14	R14	R15	400	14.1	14.1			
15	R15	R16	400	9.6	9.6			
16	R16	RWH	400	2.0	2.0			
17	R17	R18	400	9.8	9.8			
18	R18	R19	400	14.1	14.1			
19	R19	R20	400	12.4	12.4			
20	R20	R16	400	3.5	3.5			
21	R21	R22	400	19.6	19.6			
22	R22	R23	400	14.1	14.1			
23	R23	R24	400	14.1	14.1			
24	R24	R25	400	14.1	14.1			
25	R25	R26	450	14.1		14.1		
26	R26	R27	450	12.7		12.7		
27	R27	R28	450	11.2		11.2		
28	R28	RWH	400	5.0	5.0			
29	R29	R30	400	13.8	13.8			
30	R30	R31	400	14.1	14.1			
31	R31	R32	400	7.4	7.4			
32	R32	R33	400	11.7	11.7			

FOR ARTTECH ELEGANT HOMES LLP

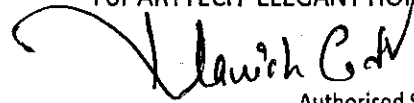
Storm Qty

Mouck Gdn
Authorised Signatory

INTEGRAL DESIGNS

Sl. No.	Line No.		Size of pipe (in mm)	Length of Pipe (In Mtr.)	Length of Pipe in mtr.			
	From	TO			400 Ø	450 Ø	500 Ø	600 Ø
33	R33	R34	400	14.1	14.1			
34	R34	R35	400	14.1	14.1			
35	R35	RWH	400	4.0	4.0			
36	R36	R37	400	14.1	14.1			
37	R37	R38	400	14.1	14.1			
38	R38	R39	400	14.1	14.1			
39	R39	R40	400	9.1	9.1			
40	R40	R41	400	9.3	9.3			
41	R41	R42	400	4.5	4.5			
42	R42	R50	400	8.6	8.6			
43	R43	R44	400	14.1	14.1			
44	R44	R45	400	14.1	14.1			
45	R45	R46	400	14.1	14.1			
46	R46	R47	400	13.8	13.8			
47	R47	R48	600	14.3				14.3
48	R48	R49	600	14.1				14.1
49	R49	R50	600	11.0				11.0
50	R50	RWH	600	2.0				2.0
	TOTAL				517	38	0	41

For ARTTECH ELEGANT HOMES LLP



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