

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATIONS OF INTERNAL DEVELOPMENT WORKS

FOR

Approval of Building plans of Group Housing Colony having area 24.10
acres bearing license No.80 of 2012 dated 17.08.2012, sector-106,
Gurugram, Manesar Urban complex

OWNER

AIR MID DEVELOPERS LTD. AND OTHERS

Approval of building plans of group housing colony having area 24.10 acres bearing
license No.80 of 2012 dated 17.08.2012, Sector-106, Gurugram, Manesar Urban
complex.

For Elan Avenue Ltd.

Authorised Signatory

GROUP HOUSING AT SECTOR 106 GURUGRAM

Architect No. CA/75/02006

H. No. 163, PH-II

New Palam Vihar, Gurugram

ELECTRICAL, MECHANICAL VENTILATION,
& FIRE FIGHTING ENGINEERING CONSULTANTS

SUNIL NAYYAR CONSULTING ENGINEERS LLP

REPORT

Gurgaon town of Haryana State is situated on Delhi-Jaipur National Highway No.8 at a distance of 30 kms for Delhi Being in the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Government to establish various residential sectors in Gurgaon. AIRMID developers Ltd is developing group housing colony measuring 24.10 acres in sector -106, Gurugram, Manesar Urban complex .

WATER SUPPLY

The source of water supply shall be HSVP/GMADA water supply connection, it has been proposed to construct underground tanks of capacity as per attached details for domestic and other purpose. The underground tank will be filled from the HSVP/GMADA riser and then pumped to the overhead water tanks of each tower & other amenity. We are purposing one no's water treatment plants & for whole development.

DESIGN

The scheme has been designed for the population as given in attached sheets.

PUMPING EQUIPMENTS

It has been proposed to install pumping set as described with standby of equal capacity. The provision for stand by generating set has been provided in case of any electricity failure. Generator will be provided separately or added to the capacity of main generator.

SEWERAGE SCHEME

This scheme is designed for sewer connecting the sewage treatment plant to treat the sewage and to use for horticulture and flushing purpose and excess sewage line will be connected to the proposed HSVP/GMADA sewer, passing along the sector road. The sewerage system has been marked on the respective plans. One number STP has been proposed the STP for the entire site as per attached details

The sewer lines have been designed for three times average D.W.F. in relation to water supply demand. It has been assumed that about 80 % of the domestic water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft/sec self cleaning velocity. Necessary provision for laying RCC (NP2/NP3) pipe sewer line, construction of required number of manholes etc., have been made in the estimate.

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

For Elan Avenue Ltd.

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STORM WATER DRAINAGE

We proposed to lay underground pipe drains with required number of catch basins for disposal of storm water which will be connecting rainwater harvesting system to recharge the aquifer and surplus storm water will be allowed to flow to the HSVP/GMDA drain along the sector road. The intensity of rain fall has been taken as $\frac{1}{4}$ " (6.25mm) per hour and storm water line will be designed as per Manning's formula.

SPECIFICATIONS

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

Roads

Cost of road has been taken in the estimate.

Street Lighting

Provision for lighting on surrounding area has been made.

Horticulture

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

Rates

The estimate has been based on the present market rates.

Cost:

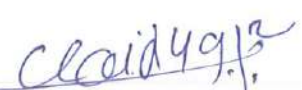
The total cost of the scheme, including cost of all services works out to be Rs. 1255 Lacs (Twelve Hundred Fifty Five lacs including 3% contingencies & 49% departmental charges. Price escalation, unforeseen Admin charts.

FOR AIRMID developers Ltd.

Authorized Signatory

For Elan Avenue Ltd.

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1.0 CALCULATION

	Tower	Area (sq. m) or Units (Nos.)	Population/ Unit	Total Population	Domestic Water Requirement			Flushing Water Requirement		Gross Water Req.
					Cold Water		Total			
					LPCD	LPD	LPD	LPCD	LPD	LPD
1	Tower-1 (3BHK-S)	91	6	546	127.5	69615	69615	45	24570	94185
2	Staff			15	25	375	375	20	300	675
Total Water Requirement						69990	69990		24870	94860
Say						70	70		25	95
3	Tower-2 (3BHK-S)	91	6	546	127.5	69615	69615	45	24570	94185
4	Staff			15	25	375	375	20	300	675
Total Water Requirement						69990	69990		24870	94860
Say						70	70		25	95
5	Tower-3 (3BHK)	91	6	546	127.5	69615	69615	45	24570	94185
6	Staff			15	25	375	375	20	300	675
Total Water Requirement						69990	69990		24870	94860
Say						70	70		25	95
7	Tower-4 (3BHK)	91	6	546	127.5	69615	69615	45	24570	94185
8	Staff			15	25	375	375	20	300	675
Total Water Requirement						69990	69990		24870	94860
Say						70	70		25	95
9	Tower-5 (3BHK)	91	6	546	127.5	69615	69615	45	24570	94185
10	Staff			15	25	375	375	20	300	675
Total Water Requirement						69990	69990		24870	94860
Say						70	70		25	95

For Eplan AutoCAD

GROUP HOUSING AT SECTOR 106 GURUGRAM

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11	Tower-6 (3BHK)	91	6	546	127.5	69615	69615	45	24570	94185
12	Staff			15	25	375	375	20	300	675
Total Water Requirement						69990	69990		24870	94860
Say						70	70		25	95
13	Tower-14 (4BHK)	91	7	637	127.5	81218	81218	45	28665	109883
14	Staff			15	25	375	375	20	300	675
Total Water Requirement						81593	81593		28965	110558
Say						82	82		29	111
15	Tower-15 (4BHK)	91	7	637	127.5	81218	81218	45	28665	109883
16	Staff			15	25	375	375	20	300	675
Total Water Requirement						81593	81593		28965	110558
Say						82	82		29	111
17	EWS	138	4	552	127.5	70380	70380	45	24840	95220
Total Water Requirement						70380	70380		24840	95220
Say						70	70		25	95
18	Nursery School	247	4 sq.m/P	62						
18a	Staff		15%	9	25	225	225	20	180	405
18b	Students		85%	53	5	265	265	10	530	795
Total Water Requirement						490	490		710	1200
Say						1	1		1	2
19	Shopping	359	3 sq.m/P	120						
19a	Staff		15%	18	25	450	450	20	360	810
19b	Students		85%	102	5	510	510	10	1020	1530
Total Water Requirement						960	960		1380	2340
Say						1	1		2	3
Project Water Requirement						656	656		236	892

For Elan Avenue Ltd.

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Domestic Consumption: 656 kl
 Flushing Consumption: 236 kl
 Sewerage generation: @ (80% Of Total Water Demand): $892 \times 0.85 = 758.2$ KL.
 Capacity of STP: 770 kld
 Horticulture water demand: (13805 Sqmt Green area) @ 6 ltr/sqmt/Per Day: 83 KL

2. Type Of water

2.1 FROM HSVP/GMDA

a) For domestic purpose from HSVP/GMDA	- 656 KL
b) For firefighting purpose as per NBC	- 775 KL
TOTAL	1431 KL

2.2 FROM STP

a) For Flushing purpose from STP	- 236 KL
b) For Landscape purpose from STP	- 83 KL
TOTAL	319 KL

3.	TOTAL U.G. TANK	
a.	TOTAL U.G. STORAGE AS BASED ONE DAY (Domestic Demand)	700
b.	FIRE WATER TANK	800
	There fore it is Proposed to construct Under Ground Tank	
	FIRE TANK – 775 KL = 200 KL X 4 Nos.	
	RAW WATER TANK- 350 KL = 175 KL X 2 Nos.	
	DOMESTIC WATER TANK – 350 KL = 175 KL X 2 Nos.	
	Total Tank Capacity = 1500 KL	

4.	PUMPS FOR DOMESTIC WATER SUPPLY		
a.	Potable Water Requirement Per Day	656	KL
b.	Pumping duration per day	8	Hrs
c.	Suction lift	0	Mtr
d.	Clear Head Required	122	Mtr
e.	Residual Head	5	Mtr
f.	Friction Head Loss	18	Mtr
g.	Total head required	145	Mtr
h.	Discharge of Pump = $656/8 = 82$ cu.m /hr = 1367 lpm Say 1370 lpm		
i.	Power Required (Lpm*head (m)/4500*.65(effi.)= $1370 \times 145 / 4500 \times 0.65$	67.9	HP
	Say	68.0	HP

5.	PUMPS FOR FLUSHING WATER SUPPLY		
a.	Flushing Water Requirement Per Day	237	KL
b.	Pumping duration per day	8	Hrs
c.	Suction lift	0	Mtr
d.	Clear Head Required	122	Mtr
e.	Residual Head	5	Mtr
f.	Friction Head Loss	15	Mtr
g.	Total head required	145	Mtr
h.	Discharge of Pump = $237/8 = 29.5 \text{ cu.m/hr} = 491.66 \text{ lpm}$ Say 500 lpm		
i.	Power Required $(\text{Lpm} \times \text{head (m)})/4500 \times .65(\text{effi}) = 500 \times 145/4500 \times 0.65$	24.78	HP
	Say	25.00	HP

6.0	PUMPS FOR HORTICULTURE PURPOSE FOR GREEN AREA		
a.	Horticulture Water Requirement Per Day	83	KL
b.	Pumping duration per day	4	Hrs
c.	Suction lift	0	Mtr
d.	Clear Head Required	10	Mtr
e.	Residual Head	15	Mtr
f.	Friction Head Loss	10	Mtr
g.	Total head required	35	Mtr
h.	Discharge of Pump = $83/4 = 20.75 \text{ cu.m/hr} = 345 \text{ lpm}$		
i.	Power Required $(\text{Lpm} \times \text{head (m)})/4500 \times .65(\text{effi}) = 300 \times 35/4500 \times 0.65$	4.12	HP
	Say	5.00	HP

7.	PUMPS FOR FIRE PROTECTION					
a.	PUMPS DESCRIPTION	LOCATION	NOS	DISCHARGE(LPM)	HEAD IN Mtr.	HP
b.	DIESEL PUMP	PUMP ROOM	2	2850	180	
c.	FIRE PUMP	PUMP ROOM	1	2850	180	175 (Dead Load)
d.	SPRINKLER PUMP	PUMP ROOM	1	2850	180	175 (Dead Load)
e.	JOCKY PUMP	PUMP ROOM	2	180	180	11
f.	ELECTRIC WATER CURTAIN PUMP	PUMP ROOM	1	2850	35	37 (Dead Load)

8.	Equipment Description	Nos.	Each power cons (HP)	Total Power (HP)	
a.	Domestic Water Transfer pumps For tower	(1W+1S)	65	65	HP
b.	Flushing Water Transfer pumps For tower	(1W+1S)	25	25	HP
c.	Horticulture pump	(1W+1S)	5	5	HP
d.	Jockey pumps	(2NOS)	11	22	HP
			Total	117	HP

Provisional for lighting	Total	12.5 129.55	HP HP
129.55X0.746x1.50	Say	144.91 145	KVA KVA

Requirement of 145 KVA Capacity will be added in to the main D.G. Set to provide stand by Supply for Total Development.

9.	HSVP/GMDA Main water Supply Calculation For complete development		
a.	Required Fresh Water per Day	656	KL
b.	Supply Duration	8	Hrs
c.	Line Flow Rate	1.37	(Cum/Min)
d.	Proposed line dia.	150	mm
e.	Flow Velocity.	1.3	(m/sec)
f.	Friction Head Loss /1000m	14.19	Mtr
g.	Length of line	185	Mtr
h.	Total Head Loss	3	Mtr

For Elan Avenue Ltd.

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Approval of building plans of group housing colony having area 24.10 acres bearing license No.80 of 2012 dated 17.08.2012, sector-106,Gurugram,Manesar Urban complex.

FINAL ABSTRACT OF COST

			Amount in Rs. Lacs
1	SUB WORK NO. I	WATER SUPPLY SCHEME	223.39
2	SUB WORK NO. II	SEWERAGE SCHEME	216.90
3	SUB WORK NO.III	STORM WATER DRINAGE	171.20
4	SUB WORK NO.IV	ROADS & FOOT PATHS	231.00
5	SUB WORK NO.V	STREET LIGHTING	36.99
6	SUB WORK NO. VI	PLANTATION & ROAD SIDE TRESS	11.15
7	SUB WORK NO. VII	MAINTENANCE CHARGES & SURFACING OF ROAD	364.17
		TOTAL	1255

Cost per Acre = $1255/24.10 = 52.07$ Lakh/Acre

AIRMID Developers Ltd.

AUTHORISED SIGNATORY

For Elan Avenue Ltd.

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SUB WORK No. 1

Water Supply & Fire
Fighting

2	Sub Head No. 01	Pumping Machinery	7,750,000.00
3	Sub Head No. 02	Rising Main HSVP/GMDA	450,500.00
4	Sub Head No. 03	Distribution System	1,087,150.00
5	Sub Head No. 04	Fire rising Main	2,503,900.00
6	Sub Head No. 05	Recycling of water (Irrigation and flushing riser)	2,764,100.00

TOTAL	14,555,650.00
Add 3% contingencies & PH Charges	436,669.50
TOTAL	14,992,319.50
Add 49% Departmental charges, price escalation, unforeseen, Admin.	7,346,236.56
TOTAL	22,338,556.06
SAY IN LAKHS	223.39

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Sub -Work No. 1 Sub -Head No. 01			Water Supply & Fire Fighting Pumping Machinery		
S. No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Providing and installing electricity driven pumping set for domestic and flushing supply complete with motor and other accessories				
	Domestic Water Transfer pumps 1370 LPM at 145 M Head 68 HP	Each	2	600000.00	1,200,000.00
	Flushing Water Transfer pumps 500 LPM at 145 M Head 25 HP	Each	2	400000.00	800,000.00
	Irrigation Water Transfer pumps 345 LPM at 35 M Head 5 HP	Each	2	100000.00	200,000.00
2	Providing and installing pumping set of following capacities for Fire protection.				
	180 lpm at 180M head (11 HP)				
		Each	2	150,000.00	300,000.00
	2850 lpm at 180 M head (175 HP)				
		Each	2	700000.00	1,400,000.00
	2850 lpm at 180 M head DG pump				
		Each	2	850000.00	1,700,000.00
	2850 lpm at 35 M head water curtain (37 HP)				
		Each	1	250000.00	250,000.00
3	Provision for chlorination plant complete				
		Each	2	50000.00	100,000.00
4	Provision for making foundations and erection of Pumping Machinery.				
		LS		200000.00	200,000.00
5	Provision for carriage of material and other unforeseen Items etc.				
		LS		100000.00	100,000.00
6	Provision for pipes, valves and specially inside the pump chamber and boosting chamber				
		LS		200000.00	200,000.00
7	Provision for electric service connection including electrical fitting for bore well and boosting chamber including cost of transfer				
		LS		100000.00	100,000.00

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8	Provision for Gen. set of 145 KVA capacity				
		LS		1200000.00	1,200,000.00
	TOTAL				7,750,000.00
	SAY				Rs. 77.50 Lakhs

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Sub -Work No. 1
Sub -Head No. 02

Water Supply Rising Main from HSVP/GMDA

S.No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Providing , laying, jointing and testing pipe lines including Cost of excavation etc. complete in all respects .				
	150 mm dia. CILA pipe	M	185	1500.00	277,500.00
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. completed in all respects.				
	150 mm i/d	Each	1	12000.00	12,000.00
3	Providing and fixing indicating plates for sluice valve and air Valves .				
		Each	1	1000.00	1,000.00
4	Providing and fixing air release valve and scour valve.				
		Each	1	10000.00	10,000.00
5	Provision for carriage for materials and other unforeseen items .				
		LS		50000.00	50,000.00
6	Making water supply connection .				
		Each	1	100000.00	100,000.00
	TOTAL				450,500.00
	SAY				Rs. 4.51 Lakhs
Material statement of HSVP/GMDA Rising Main					
	Line Name	Dia in MM	Length		
	UGT-HUDA CONNECTION	150	185		

For Elan Avenue Ltd.

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Sub -Work No. 1
Sub -Head No. 03

Water supply Distributing System Domestic

S.No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Providing , Laying, jointing and testing GI pipe line including Fittings, valves, cost of excavation etc. complete in all respect.				
	G.I Pipe 150 mm	M	136	1,500.00	204,000.00
	G.I Pipe 100 mm	M	90	1,200.00	108,000.00
	G.I Pipe 80 mm	M	135	1,000.00	135,000.00
	G.I Pipe 65 mm	M	234	950.00	222,300.00
	G.I Pipe 50 mm	M	40	750.00	30,000.00
	G.I Pipe 40 mm	M	5	550.00	2,750.00
	G.I Pipe 32 mm	M	78	450.00	35,100.00
2	Provision for carriage of materials and other unforeseen items and cutting of roads.		L.S.	100,000.00	100,000.00
3	Providing and fixing air release/scour valve				
		Each	5	10000.00	50,000.00
4	Provision for add cutout etc				200,000.00
	(C/O TO Abstract of Cost for Subwork No.1)				1,087,150.00
	SAY				Rs. 10.87 Lakhs
	(Material statement of domestic Rising Main (See Enclosed Sheet Annexure-I)				

For Elan Avenue Ltd.

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Sub -Work No. 1
Sub -Head No. 04

Water supply & Fire fighting Fire
Rising Main

S. No.	Description	Unit	Qty.	Rate	Amount(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.				
	150 mm m.s. pipe line	M	965	1500.00	1,447,500.00
	100 mm i/d	M	122	1200.00	146,400.00
	80 mm i/d	M	224	1000.00	224,000.00
2	Providing and fixing fire Hydrant				
		Each	26	10000.00	260,000.00
3	Providing for indication plates				
		Each	26	1000.00	26,000.00
4	Providing for carriage of material as other unforeseen items.				
		LS		100000.00	100,000.00
5	Providing Surface boxes & machinery chamber complete it all.				300,000.00
	Total cost of Abstract of cost for Subwork No.1				2,503,900.00
	SAY				Rs. 25.04 Lakhs
	Material statement of Fire fighting Rising Main (See Enclosed Sheet Annexure-II)				

For Elan Avenue Ltd.

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Sub -Work No. 1

Recycling of water (Irrigation and
flushing riser)

Sub -Head No. 05

S. No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Providing , Laying, jointing and testing GI pipe line including Fittings, valves, cost of excavation etc. complete in all respect.				
	G.I Pipe 100 mm	M	90	1,200.00	108,000.00
	G.I Pipe 80 mm	M	166	1,000.00	166,000.00
	G.I Pipe 65 mm	M	90	950.00	85,500.00
	G.I Pipe 50 mm	M	45	750.00	33,750.00
	G.I Pipe 40 mm	M	262	550.00	144,100.00
	G.I Pipe 32 mm	M	40	450.00	18,000.00
	G.I Pipe 25 mm	M	78	350.00	27,300.00
2	Providing , Laying, jointing and testing HDPE pipe line including Fittings, valves, cost of excavation etc. complete in all respect.				
	90 mm dia	M	1702	775.00	1,319,050.00
	63 mm dia	M	398	675.00	268,650.00
	40 mm dia	M	0	500.00	-
	32 mm dia	M	200	450.00	90,000.00
	25 mm dia	M	55	350.00	19,250.00
3	Providing and fixing 20 mm dia irrigation hydrant Valve complete in all respect.				
		Each	55	3500.00	192,500.00
4	Provision for carriage of Material and other as foreseen Items.		L.S.	250000.00	250,000.00
5	Provision for cutting of road & making wood its original conditions				100,000.00
6	Providing and fixing air release/scour valve				
		Each	5	10000.00	50,000.00
	TOTAL				2,764,100.00
	SAY				Rs. 27.64 Lakhs
	Material statement of Flushing & Irrigation Rising Main (See Enclosed Sheet Annexure-IIIA & IIIB)				

For Elan Avenue Ltd.

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Sub -Work No. II				Sewerages Scheme	
S. No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Providing , jointing, cutting & testing RCC pipe NP2/3 and lowering into trenches including cost of excavation, bed concrete cost of manholes etc. complete in all respects				
	400 mm dia i/d RCC pipes	M	159	2600.00	413400
	300 mm dia i/d RCC pipes	M	351	2100.00	737100
	250 mm dia i/d RCC pipes	M	170	1800	306000
	200 mm dia i/d RCC pipes	M	307	1250	383750
2	Provision for cartage of material an other unforeseen items.			100000.00	100,000.00
3	Provision for Vent pipe		LS	100,000.00	100,000.00
4	Providing , laying, jointing and testing pipe lines including Cost of excavation etc. complete in all respects.				
a	100 mm dia. CILA pipe	M	135	1800.00	243,000.00
5	Provision for temporary disposal arrangement.		LS	100000.00	100,000.00
6	STP capacity 770 KLPD				
		KLPD	770	15000.00	11,550,000.00
7	Provision for making connection with HSVP/GMDA Sewage on the master road		L.S.		200,000.00
	TOTAL				14,133,250.00
	Add 3% contingencies & PH charges				423,997.50
	TOTAL				14,557,247.50
	Add 49% Departmental charges, price escalation Unforeseen, Admin.				7,133,051.28
	TOTAL				21,690,298.78
	SAY				Rs. 216.90 Lakhs
	Material statement of Sewrage (See Enclosed Sheet Annexure-IV)				

For Elan Avenue Ltd.

Authorised Signatory

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Sub -Work No. III

Storm Water Scheme

S. No.	Description	Unit	Qty	Rate	Amount(Rs.)
1	Providing, Laying R.C.C. pipes drain class NP-3 with cement joint manholes excavation, etc. complete in all respects.				
	400 mm dia.	M	782	1750.00	1,368,500.00
	500 mm dia.	M	586	2000.00	1,172,000.00
	600 mm dia.	M	254	2500.00	635,000.00
	750 mm dia.	M	10	3000.00	30,000.00
2	Provision for roof top rain harvesting arrangement - Recharge pit with twin bore				
		Each	25	200000.00	5,000,000.00
3	Provision for carriage of material and unforeseen items				
		LS		100000.00	100,000.00
4	Provision for making connection to main line.				
		Each	1	50000.00	50,000.00
5	Provision for lighting, watching and temporary drain arrangement				300,000.00
6	Provision for road gully including pipe connection / disposal arrangement				2,500,000.00
	TOTAL				11,155,500.00
	Add 3% for contingencies and PH charges.				334,665.00
	TOTAL				11,490,165.00
	Add 49% Departmental charges, price escalation, Unforeseen, Admin charges.				5,630,180.85
	TOTAL				17,120,345.85
	SAY				Rs. 171.20 Lakhs
	Material statement of Drainage (See Enclosed Sheet Annexure-V)				

For Elan Avenue Ltd.

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Sub -Work No.IV

Roads and Footpaths

S.No.	Description	Unit	Qty	Rate	Amount(Rs.)
1	Provision for leveling and earth filling as Per site condition 24.10 acres				
		Acre	24.100	100000	2,410,000.00
2 (i)	Soling Coat 100mm thick (63-45mm) gauge Completed to 75mm thick WBM confirming to MOT specification (Table 400- 6 grading No.2)				
(ii)	Wearing coat (Top Coat) 100mm thick (53 to 22.4mm gauge compacted to 75mm thick Conforming to MOT specification (Table 400-6 Grading No.2)				
(iii)	25mm thick pre-mix carpet with seal coat				
		sqmt.	14599	600.00	8,759,400.00
3	Provision for kerb and channels of CC (1:1.5:3) (1953.5x2)				
		M	3907	300.00	1,172,100.00
4	Provision for making approach to each block and I. Pavement & Parking arrangement.				
		Acre	24.100	100000.00	2,410,000.00
5	Provision for guide map and other unforeseen items and Indicating board etc. LS				
			LS	100000.00	100,000.00
6	Provision for cartage of material an other unforeseen items.				
		LS		200000.00	200,000.00
			TOTAL		15,051,500.00
	Add 3% contingencies & PH Charges				451,545.00
			TOTAL		15,503,045.00
	Add 49% Departmental charges, price escalation, unforeseen, Admin.				7,596,492.05
			TOTAL		23,099,537.05
			SAY		Rs. 231.00 Lakhs
	Material statement of Road (See Enclosed Sheet Annexure-VI)				

For Elan Avenue Ltd.

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Sub -Work No.V

Street Lighting

S.No.	Description	Unit	Qty	Rate	Amount(Rs.)
1	Providing Street lighting on roads as I. per standard specification of HVPN				
		Acre	24.1	100000	2,410,000.00
			TOTAL		2,410,000.00
	Add 3% contingencies & PH Charges				72,300.00
			TOTAL		2,482,300.00
	Add 49% Departmental charges, price escalation, unforeseen, Admin.				1,216,327.00
			TOTAL		3,698,627.00
			SAY		Rs. 36.99 Lakhs

For Elan Avenue Ltd.

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Sub -Work No.VI				Plantation and road side trees	
S.No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Development of lawn area (organised green 4.82 Acres)				
		Acre	4.82	100000	482,000.00
a	Trenching the ordinary soil up to dept of 60cm including removal and stacking serviceable material and disposing of by spreading and leveling within a lead of 50m and making up the trenches area to proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure.				
b	Rough dressing of turfed area				
c	Grassing with "Doob Grass" including watering and IV. Maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in rows 7.5 m Apart in either direction 4.82 Acres @ 100000 per acre				
2	2. Providing tress, guards and planting trees along road at 12 m inteval Total road length = 1954X2/12 No of Tress = 325.66 Say = 326 <u>Cost Analysis of Planting Trees</u> Excavation = 32 each Manure = 30 each Tree plants = 60 each Tree guards = 600 each = Rs.750 per tree				
		Each	326	750	244,500.00
			TOTAL		726,500.00
	Add 3% contingencies & PH Charges				21,795.00
			TOTAL		748,295.00
	Add 49% Departmental charges, price escalation, unforeseen, Admin.				366,664.55
			TOTAL		1,114,959.55
			SAY		Rs. 11.15 Lakhs

For Elan Avenue Ltd.


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SUNIL NAYYAR CONSULTING ENGINEERS P. L. D.

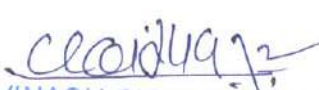
Sub -Work No.VII

Maintenance Charges & Resurfacing of Road

S. No.	Description	Unit	Qty.	Rate	Amount(Rs.)
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation and establishment charges as per HUDA norms after completion and resurfacing of roads after 10 years 24.10 Acres @ 5.00 lacs per acre.				
		Acre	24.1	500000.00	12,050,000.00
2	Provision for resurfacing of roads after 1st 5 years of maintenance by provision by providing 50mm thick B.M. & 25 mm thick Premix Carpet.				
		Sq. Mtr.	14599	300.00	4,379,700.00
3	Provision for resurfacing of roads after 10 years by providing 50mm thick B.M. & 25 mm thick Premix Carpet.				
		Sq. Mtr.	14599	500.00	7,299,500.00
			TOTAL		23,729,200.00
	Add 3% contingencies & PH Charges				711,876.00
			TOTAL		24,441,076.00
	Add 49% Departmental charges, price escalation, unforeseen,				11,976,127.24
			TOTAL		36,417,203.24
			SAY		Rs. 364.17 Lakhs

For Elan Avenue Ltd.


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 SHILPA CONSULTING ENGINEERS LLP

MATERIAL OF DOMESTIC WATER SUPPLY									
S. No.	LINE NO	LENGTH OF PIPE	SIZE OF RISER PIPE IN MM Dia	DIA IN MM					
				150	100	80	65	50	32
1	PUMPROOM-D1	25	150	25					
2	D1-T15	30	65				30		
3	D1-D2	35	150	35					
4	D2-T14	51	65				51		
5	D2-D3	76	150	76					
6	D3-T1	8.5	65				8.5		
7	D3-D4	45	100		45				
8	D4-T2	8.5	65				8.5		
9	D4-D5	45	100		45				
10	D5-T3	8.5	65				8.5		
11	D5-D6	45	80			45			
12	D6-T4	8.5	65				8.5		
13	D6-D7	45	80			45			
14	D7-T5	8.5	65				8.5		
15	D7-D8	45	80			45			
16	D8-T6	8.5	65				8.5		
17	D8-D9	102	65				102		
18	D9-EWS	40	50					40	
19	D9-NS	78	32						78
			TOTAL	136	90	135	234	40	78

ANNEXURE-I

For Elan Avenue Ltd.


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ELECTRICAL, MECHANICAL VENTILATION,
& FIRE FIGHTING ENGINEERING CONSULTANTS

SUNIL NAYYAR CONSULTING ENGINEERS PVT. LTD.

MATERIAL STATEMENT FOR FIRE HYDRANT WORKS						
S.No.	LINE No.	PIPE DIA	LENGTH	DIA IN mm		
			Mtr.	80	100	150
1	Fire Pump-1	150	80			80
2	1-2	150	80			80
3	2-3	150	85			85
4	3-4	100	25		25	
5	4-4a	80	11	11		
5	4-4b	80	40	40		
6	3-5	150	34			34
7	5-6	150	215			215
8	6-7	150	147			147
9	6-7	150	260			260
10	7-8	150	64			64
11	8-9	100	26		26	
12	9-9a	100	5		5	
13	9a-10	80	46	46		
14	9-11	80	30	30		
15	8-12	100	66		66	
16	12-13	80	5	5		
17	12-14	80	42	42		
18	Vertical EFH pipe	80	50	50		
		TOTAL		224	122	965
	Number of EFH in site plan		26 nos			
	80 dia vertical		2 mtr vertical for each hydrant	50 mtr.		

For Elan Avenue Ltd.

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ANNEXURE-II

ELECTRICAL, MECHANICAL VENTILATION,
 & FIRE FIGHTING ENGINEERING CONSULTANTS
Sunil
 SUNIL NAYAR CONSULTING ENGINEERS LLP

MATERIAL OF FLUSHING WATER SUPPLY										
S. No.	LINE NO	LENGTH OF PIPE	SIZE OF RISER PIPE IN MM Dia	DIA IN MM						
				100	80	65	50	40	32	25
1	STP-F1	55	100	55						
2	F1-T15	30	40					30		
3	F1-F2	35	100	35						
4	F2-T14	51	40					51		
5	F2-F3	76	80		76					
6	F3-T1	8.5	40					8.5		
7	F3-F4	45	80		45					
8	F4-T2	8.5	40					8.5		
9	F4-F5	45	80		45					
10	F5-T3	8.5	40					8.5		
11	F5-F6	45	65			45				
12	F6-T4	8.5	40					8.5		
13	F6-F7	45	65			45				
14	F7-T5	8.5	40							
15	F7-F8	45	50				45	45		
16	F8-T6	8.5	40							
17	F8-F9	102	40					102		
18	F9-EWS	40	32						40	
19	F9-N5	78	25							78
			TOTAL	90	166	90	45	262	40	78

ANNEXURE-III (A)

For Elan Avenue Ltd.

[Signature]
Authorised Signatory

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[Signature]
SUNIL NAYYAR CONSULTING ENGINEERS LLP

MATERIAL SHEET FOR IRRIGATION SYSTEM										
S.No	LINE NO		PIPE IN METER	SIZE OF PIPE IN MM	25 DIA (MM)	32 DIA (MM)	40 DIA (MM)	50 DIA (MM)	63 DIA (MM)	90 DIA (MM)
	FROM	TO	LENGTH	DIA						
1	STP	IR1	8	90						8
2	IR1	IR2	142	90						142
3	IR2	IR3	38	90						38
4	IR3	IR4	217	90						217
5	IR4	IR5	100	90						100
6	IR5	IR6	277	90						277
7	IR6	IR7	330	90						330
8	IR7	IR8	330	90						330
9	IR8	IR9	260	90						260
10	IR3	IR9	78	63					78	
11	IR9	IR10	210	63					210	
12	IR10	IR16	110	63					110	
	BRANCH /TAP OFF		200	32		200				
8	GH vertical		55	25	55					
	Total				55	200	0	0	398	1702
TOTAL GARDEN HYDRANT = 55 Nos										
25 DIA VERTICAL LENGTH = 55 x 1 = 55 mtr										

For Elan Avenue Ltd.


Authorised Signatory


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Annexure-III (B)

ELECTRICAL, MECHANICAL VENTILATION,
& FIRE FIGHTING ENGINEERING CONSULTANTS

SUNIL KUMAR CONSULTING ENGINEERS LLP

MATERIAL STATEMENT FOR SEWERAGE

S. No.	LINE		Dia of Pipe	Length of line	DIA IN mm			
	FROM	TO			200	250	300	400
			MM	Mtr	200	250	300	400
1	1	2	200	113	113			
2	2	3	200	98	98			
3	3	4	200	96	96			
4	4	5	250	170		170		
5	5	6	300	121			121	
6	6	7	300	67			67	
7	7	8	300	36			36	
8	8	9	300	84			84	
9	9	10	300	43			43	
10	10	11	400	56				56
11	11	12	400	93				93
12	12	STP	400	10				10
					307	170	351	159
STP OVERFLOW PIPE								
	FROM	TO	Dia of Pipe	Length of line				
	STP	Main line	100	135				
	Total			135	Mtr.			

For Elan Avenue Ltd.


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ELECTRICAL, MECHANICAL VENTILATION,
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ANNEXURE-IV
SUMIL RAYYAR CONSULTING ENGINEERS LLP

MATERIAL STATEMENT FOR STORM WATER								
SL	LINE		DIA OF PIPE	LENGTH OF LINE	400MM	500MM	600MM	750MM
NO.	From	To	IN MM	METER	METER	METER	METER	METER
1	1	2	400	42	42			
2	2	3	400	40	40			
3	3	4	400	53	53			
4	4	5	400	64	64			
5	5	6	400	61	61			
6	6	7	400	81	81			
7	7	8	400	82	82			
8	8	9	400	75	75			
9	9	10	500	64		64		
10	10	11	500	60		60		
11	11	12	500	54		54		
12	12	13	500	52		52		
13	13	14	500	49		49		
14	14	15	600	91			91	
15	15	16	600	60			60	
16	16	27	600	47			47	
17	17	18	400	58	58			
18	18	19	400	72	72			
19	19	20	400	72	72			
20	20	21	400	82	82			
21	21	22	500	96		96		
22	22	23	500	36		36		
23	23	24	500	60		60		
24	24	25	500	43		43		
25	25	26	500	72		72		
26	26	27	600	56			56	
27	27	OUTSIDE	750	10				10
TOTAL					782	586	254	10

For Elan Avenue Ltd.

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ANNEXURE-V
SUNIL MAYYAR CONSULTING ENGINEERS I.I.P

MATERIAL STATEMENT OF ROAD						
	NODE		WIDE	LENGTH	6	6.5
S.NO	From	To	METER	METER	M (WIDE)	M (WIDE)
1	1	2	6	108	108	0
2	2	3	6	160	160	0
3	3	4	6	170	170	0
4	4	5	6	111	111	0
5	5	6	6.5	123	0	6.5
6	6	7	6	74	74	0
7	7	8	6	107	107	0
8	8	9	6	69	69	0
10	10	11	6.5	108	0	108
11	12	13	6.5	108	0	108
12	14	15	6.5	14	0	14
13	16	17	6.5	124	0	124
14	17	18	6.5	53	0	53
15	18	19	6.5	115	0	115
16	19	20	6.5	159	0	159
17	21	22	6.5	159	0	159
18	22	23	6.5	115	0	115
19	20	24	6	50	50	0
20	25	26	6	44	44	0
2	26	27	6	55	55	0
3	27	28	6	44	44	0
Total					992	961.5
			AREA in SQM.	12201.8		
			Add 5 % CURVE	610.088		
			TOTAL AREA	12812		
			TOTAL LENGTH	1954		
			CHANNEL	3907		
			SURFACE CAR PARKING	143		
			AREA FOR CAR PARKING	1787.5		
Total Area				14599	Sqmtr.	

For Elan Avenue Ltd.

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SUNIL NAYAR CONSULTING ENGINEERS LLP

Annexure-VI

PROJECT: SECTOR 106 GURUGRAM GROUP HOUSING COLONY

SUBJECT: Domestic Water Supply Design Sheet

PROJECT: SECTOR 106 GURUGRAM GROUP HOUSING COLONY																			
SUBJECT: Domestic Water Supply Design Sheet																			
SL NO	LINE NO	Domestic Potable water demand	TOTAL POTABLE WATER REQ. PER DAY (SELF)	PROGRESSIVE WATER REQ. IN LPD	TOTAL DOMESTIC WATER REQ. PER DAY	PUMP WORKING 8 HOURS	SELF WATER REQ. IN LPM	Actual LENGTH OF PIPE	Total length including fitting @ 20% increase	HEAD LOSS MTR/ MTR	SELF HEAD LOSS IN MTRS	CUMULATIVE HEAD LOSS IN MTRS	GROUND LEVEL AT LOWER END	GROUND LEVEL AT UPPER END	H.LVL. At lower end	H.LVL. At upper end	Residual head available in MTRS	VELOCITY IN M/SEC	SIZE OF RISER PIPE IN MM Dia
	PUMPROOM-D1		0	656906	656906	82113	1369	25	30	0.014	0.423	18.518	-5.00	0.00	140.00	133.58	133.58	1.29	150
	D1-T15	81593	81593	0	81593	10199	170	30	36	0.017	0.627	0.627	0.00	117.00	133.58	132.95	15.95	0.85	65
3	D1-D2		0	575313	71914	1109	35	42	0.011	0.364	17.468	0.00	0.00	133.58	133.11	133.11	1.13	150	
4	D2-T14	81593	81593	0	81593	10199	170	51	61	0.017	1.066	1.066	0.00	117.00	133.11	132.05	15.05	0.85	65
5	D2-D3		0	493720	493720	61715	1029	76	91	0.008	0.759	15.938	0.00	0.00	133.11	132.35	152.35	0.97	150
6	D3-T1	71940	71940	0	71940	8993	150	8.5	10	0.014	0.141	0.141	0.00	117.00	132.35	132.21	15.21	0.75	65
7	D3-D4		0	421780	421780	52723	879	45	54	0.045	2.418	15.098	0.00	0.00	132.35	129.94	129.94	1.86	100
8	D4-T2	70950	70950	0	70950	8869	148	8.5	10	0.013	0.137	0.137	0.00	117.00	129.94	129.80	12.80	0.74	65
9	D4-D5		0	350830	350830	43854	731	45	54	0.032	1.719	12.483	0.00	0.00	129.94	128.22	128.22	1.55	100
10	D5-T3	69990	69990	0	69990	8749	146	8.5	10	0.013	0.134	0.134	0.00	117.00	128.22	128.08	11.08	0.73	65
11	D5-D6		0	280840	280840	35105	585	45	54	0.063	3.375	10.631	0.00	0.00	128.08	124.71	124.71	1.94	80
12	D6-T4	69990	69990	0	69990	8749	146	8.5	10	0.013	0.134	0.134	0.00	117.00	124.71	124.57	7.57	0.73	65
13	D6-D7		0	210850	210850	26356	439	45	54	0.037	1.985	7.122	0.00	0.00	124.71	122.72	122.72	1.46	80
14	D7-T5	69990	69990	0	69990	8749	146	8.5	10	0.013	0.134	0.134	0.00	117.00	122.72	122.59	5.59	0.73	65
15	D7-D8		0	140860	140860	17608	293	45	54	0.017	0.941	5.003	0.00	0.00	122.72	121.78	121.78	0.97	80
16	D8-T6	69990	69990	0	69990	8749	146	8.5	10	0.013	0.134	0.134	0.00	117.00	121.78	121.65	4.65	0.73	65
17	D8-D9		0	70870	70870	8859	148	102	122	0.013	1.642	3.928	0.00	0.00	121.78	120.14	120.14	0.74	65
18	D9-EW5	70380	70380	0	70380	8738	147	40	48	0.048	2.282	2.282	0.00	27.00	120.14	117.86	90.86	1.24	50
19	D9-N5	490	490	0	490	61	1	78	94	0.000	0.004	0.004	0.00	12.00	120.14	120.14	108.14	0.02	32

For Elan Avenue Ltd.

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ELECTRICAL, MECHANICAL VENTILATION,
& FIRE FIGHTING ENGINEERING CONSULTANTS

SUNIL NAYYAR CONSULTING ENGINEERS LLP

PROJECT: SECTOR 106 GURUGRAM GROUP HOUSING COLONY

SUBJECT: Flushing Water Supply Design Sheet

SL NO	LINE NO	FLUSHING WATER DEMAND	TOTAL FLUSHING WATER REQ. PER DAY (SELF)	PROGRESSIVE WATER REQ. IN LPD	TOTAL FLUSHING WATER REQ. PER DAY	PUMP WORKING 8 HOURS	SELF WATER REQ. IN LPM	Actual Length OF PIPE	Total length including fitting @ 20%	HEAD LOSS MTR/ MTR	SELF HEAD LOSS IN MTRS	CUMULATIVE HEAD LOSS IN MTRS	GROUND LEVEL AT LOWER END	GROUND LEVEL AT UPPER END	HLVL At lower end	HLVL At upper end	Residual head available in MTRS	VELOCITY IN M/SEC	SIZE OF RISER PIPE IN MM Dia
1	STP-F1		0	234980	234980	29373	490	55	66	0.015	1.000	15.872	-8.00	0.00	140.00	131.00	131.00	1.0	100
	F1-T15	28965	28965		28965	3621	60	30	36	0.027	0.817	0.817	0.00	117.00	131.00	130.18	13.18	0.8	40
	F1-F2		0	206015	206015	25752	429	35	42	0.012	0.416	14.054	0.00	0.00	131.00	130.58	130.58	0.9	100
	F2-T14	28965	28965		28965	3621	60	51	61	0.027	1.389	1.389	0.00	117.00	130.58	129.30	12.20	0.8	40
5	F2-F3		0	177050	177050	22131	369	76	91	0.027	2.022	12.250	0.00	0.00	130.58	128.56	128.56	1.2	80
6	F3-T1	25770	25770		25770	3221	54	8.5	10	0.022	0.186	0.186	0.00	117.00	128.56	128.38	11.38	0.7	40
7	F3-F4		0	151280	151280	18910	315	45	54	0.020	0.895	10.042	0.00	0.00	128.56	127.67	127.67	1.0	80
8	F4-T2	26250	26250		26250	3281	55	8.5	10	0.023	0.193	0.193	0.00	117.00	127.67	127.48	10.48	0.7	40
9	F4-F5		0	125030	125030	15629	260	45	54	0.014	0.629	8.955	0.00	0.00	127.67	127.04	127.04	0.9	80
10	F5-T3	24870	24870		24870	3109	52	8.5	10	0.021	0.175	0.175	0.00	117.00	127.04	126.86	9.86	0.7	40
11	F5-F6		0	100160	100160	12520	209	45	54	0.025	1.146	8.152	0.00	0.00	127.04	125.89	125.89	1.0	65
12	F6-T4	24870	24870		24870	3109	52	8.5	10	0.021	0.175	0.175	0.00	117.00	125.89	125.72	8.72	0.7	40
13	F6-F7		0	75290	75290	9411	157	45	54	0.015	0.675	6.831	0.00	0.00	125.89	125.22	125.22	0.8	65
14	F7-T5	24870	24870		24870	3109	52	8.5	10	0.021	0.175	0.175	0.00	117.00	125.22	125.04	8.04	0.7	40
15	F7-F8		0	50420	50420	6303	105	45	54	0.006	1.154	5.981	0.00	0.00	125.22	124.06	124.06	0.9	50
16	F8-T6	24870	24870		24870	3109	52	8.5	10	0.021	0.175	0.175	0.00	117.00	124.06	123.89	6.89	0.7	40
17	F8-F9		0	25550	25550	3194	53	102	122	0.022	2.202	4.653	0.00	0.00	124.06	123.86	123.86	0.7	40
18	F9-EWS	24840	24840		24840	3105	52	40	48	0.061	2.430	2.430	0.00	27.00	123.86	119.43	92.43	1.1	37
19	F9-N5	710	710		710	89	1	78	94	0.000	0.022	0.022	0.00	12.00	123.86	123.84	109.84	0.1	25

For Elan Avenue Ltd.

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SUNIL NAYAR CONSULTING ENGINEERS LLP

PROJECT: SECTOR 106 GURUGRAM GROUP HOUSING COLONY
SUBJECT: SEWER DESIGN SHEET

S.	Line		No. of Main Unit	No. of EWS Flat	No. of Service Personal Unit	Population @ 4 person per main flat in 3bhk and 5 person in 4 bhk, two/Service Personal	Total Water Requirement @ 172.5 lpcd	Types of Building	Total Daily Water Requirement in Litre	Self	Peak Load @ 3X Av. Load	Subsoil Infiltration @ 25% of Av. Load	Self Discharge	Branch Discharge	Total Discharge	Total Discharge	Length of line	Dia of Pipe	Slope 1 IN	Fall in Line
1	1	2				0	1200	Nursery School	1200	1020	3060	255	3315	0	3315	0.04	113	200	190	0.59
2	2	3	0	138		552	95220	EWS	95220	80937	242811	20234	263045	3315	266360	3.08	98	200	190	0.52
3	3	4				0	0		0	0	0	0	0	266360	266360	3.08	96	200	190	0.51
4	4	5	273		273	1638	284580	Tower 6, tower 5 and Tower 4 + Staff in each tower	284580	241893	725679	60473	786152	266360	1052513	12.18	170	250	300	0.57
5	5	6	182		182	1092	192060	Tower 3, and Tower 2 + Staff in each tower+Shopping	192060	163251	489753	40813	540566	1052513	1585078	18.32	121	300	320	0.38
6	6	7	91		91	546	97710	Tower 1 + Staff in each tower+MP hall	97710	83054	249161	20763	269924	1588078	1859002	21.45	67	300	320	0.21
7	7	8			0	0	0		0	0	0	0	0	1853002	1853002	21.45	36	300	320	0.11
8	8	9			0	0	0		0	0	0	0	0	1853002	1853002	21.45	84	300	320	0.26
9	9	10			0	0	0		0	0	0	0	0	1853002	1853002	21.45	43	300	320	0.13
10	10	11	91		91	637	110558	Tower 14 + Staff in each tower	110558	93974	281922	23493	305415	1853002	2158417	24.98	56	400	450	0.12
11	11	12	91		91	637	110558	Tower 15 + Staff in each tower	110558	93974	281922	23493	305415	2158417	2463832	28.52	93	400	450	0.21
12	12	STP				0	0		0	0	0	0	0	2463832	2463832	28.52	10	400	450	0.02

For Elan Avenue Ltd.

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PROJECT: SECTOR 106 GURUGRAM GROUP HOUSING
SUBJECT: STORM WATER DRAINAGE DESIGN SHEET

SL. No.	LINE		AREA SERVED			RUNOFF ASSUMING	DIA OF	GRADIENT.	VELOCITY	DESIGN	CHECK FOR CARRYING CAPACITY	LENGTH	FALL IF
	From	to	Self(sqm)	BRANCH(sqm)	TOTAL(Sqm)	RF @ (6.25MM)	PIPE	1/	m/sec	DISCHARGE.		OF LINE	METER
						IN LPS.	IN MM			IN LPS			
1	1	2	2510	0	2510	3	400	450	0.68	68.09	OK	42	0.09
2	2	3	2390	2510	4901	6	400	450	0.68	68.09	OK	40	0.09
3	3	4	3167	4901	8068	10	400	450	0.68	68.09	OK	53	0.12
4	4	5	3825	8068	11893	14	400	450	0.68	68.09	OK	64	0.14
5	5	6	3645	11893	15538	19	400	450	0.68	68.09	OK	61	0.14
6	6	7	4841	15538	20379	25	400	450	0.68	68.09	OK	81	0.18
7	7	8	4901	20379	25279	31	400	450	0.68	68.09	OK	82	0.18
8	8	9	4482	25279	29762	36	400	450	0.68	68.09	OK	75	0.17
9	9	10	3825	29762	33586	41	500	600	0.68	106.92	OK	64	0.11
10	10	11	3586	33586	37172	45	500	600	0.68	106.92	OK	60	0.10
11	11	12	3227	37172	40399	49	500	600	0.68	106.92	OK	54	0.09
12	12	13	3108	40399	43507	53	500	600	0.68	106.92	OK	52	0.09
13	13	14	2928	43507	46435	56	500	600	0.68	106.92	OK	49	0.08
14	14	15	5438	46435	51874	63	600	750	0.69	155.51	OK	91	0.12
15	15	16	3586	51874	55459	67	600	750	0.69	155.51	OK	60	0.08
16	16	27	2809	55459	58268	71	600	750	0.69	155.51	OK	47	0.06
17	17	18	3466	0	3466	4	400	450	0.68	68.09	OK	58	0.13
18	18	19	4303	3466	7769	9	400	450	0.68	68.09	OK	72	0.16
19	19	20	4303	7769	12072	15	400	450	0.68	68.09	OK	72	0.16
20	20	21	4901	12072	16972	21	400	450	0.68	68.09	OK	82	0.18
21	21	22	5737	16972	22710	28	500	600	0.68	106.92	OK	96	0.16
22	22	23	2151	22710	24861	30	500	600	0.68	106.92	OK	36	0.06
23	23	24	3586	24861	28447	35	500	600	0.68	106.92	OK	60	0.10
24	24	25	2570	28447	31017	38	500	600	0.68	106.92	OK	43	0.07

For Elan Avenue Ltd.

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