

ESTIMATE FOR DEVELOPMENT OF INTERNAL SERVICES

PROJECT:- PROPOSED GROUP HOUSING SITE MEASURING 9.53 ACRES IN RESIDENTIAL PLOTTED COLONY MEASURING 177.86 ACRES (LICENSE NO. 10 OF 2009 DATED DT.21.05.2009, LICENSE NO. 113 OF 2011 DATED 22.12.2011 & LICENSE NO. 117 OF 2022 DATED 23.08.2022) IN SECTOR 65 & 62, GURUGRAM BEING DEVELOPED BY ACTIVE PROMOTERS AND OTHERS IN COLLABORATION WITH EMAAR INDIA LTD (FORMERLY KNOWN AS EMAAR MGF LAND LTD)

FINAL ABSTRACT OF COST

Sl.No.	Head No.	Particular	Amount in Lacs
1	SUB WORK No. I	WATER SUPPLY & FIRE FIGHTING	19.80
2	SUB WORK No. II	SEWERAGE SCHEME	0.00
3	SUB WORK No.III	STORM WATER DRAINAGE	0.00
4	SUB WORK No. IV	MAINTENANCE CHARGES	0.00
5	SUB WORK No. V	STREET LIGHTING	0.00
6	SUB WORK No. VI	HORTICULTURE	6.20
7	SUB WORK No. VII	ROADS & FOOTPATH	92.42
<b>Total</b>			<b>118.42</b>
Say			118.50

Sub Work No. IWater Supply & Fire FightingAbstract of Cost for Water Supply & Fire Fighting Works

Sl.No.	Head No.	Particular	Amount in Lacs
1	SUB HEAD No. 01	PUMPING MACHINERY + HEAD WORK	12.90
2	SUB HEAD No.02	RISING MAIN	0.00
3	SUB HEAD No.03	DISTRIBUTION SYSTEM	0.00
4	SUB HEAD No.04	FIRE RISING MAIN	0.00
		<b>Total</b>	<b>12.90</b>
		Add 3 % contingencies & PE charges.	<b>0.39</b>
		<b>Total</b>	<b>13.29</b>
		Add 49 % Departmental charges, Price escalation,unforseen,Admin. Charges.	<b>6.51</b>
		<b>Total</b>	<b>19.80</b>
		<b>C/O. to final abstract of cost (say in Lacs)</b>	<b>19.80</b>

<u>Sub Work No. I</u>		<u>Water Supply &amp; Fire Fighting</u>			
Sub Head No. 01		Pumping Machinery			
Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing and installing (Domestic water hydropneumatic pump ) electricity driven pumping Set capable of delivering about 300 LPM of water against a total Head of 145 M complete with motor and other accessories (17.50 HP) <b>Already Approved</b>	No.	3	3,50,000	
2	Providing and installing (Domestic water hydropneumatic pump ) electricity driven pumping Set capable of delivering about 350 LPM of water against a total Head of 145 M complete with motor and other accessories (17.50 HP) <b>Proposed</b>	No.	3	3,50,000	10,50,000
2	Providing and installing (Flushing water hydropneumatic pump) electricity driven pumping Set capable of delivering about 200 LPM of water against a total Head of 145 M complete with motor and other accessories (12.50 HP) <b>Already Approved</b>	No.	3	2,50,000	
3	Providing and installing Fire pumping set of following capacities				
i)	Main Electric Hydrant & Sprinkler Pump 2850 lpm at 180 M head <b>Already Approved</b>	No.s	2	12,00,000	
ii)	Main Electric Jockey Pump 180 lpm at 180 M head. <b>Already Approved</b>	No.s	2	2,00,000	
iii)	2850 lpm at 180 M head ( DIESEL) <b>Already Approved</b>	No.s	1	10,00,000	
iv)	900 lpm at 35 M head ( Terrace Pump for EWS, Club and commercial) <b>Already Approved</b>	No.s	3	1,50,000	
v)	450 lpm at 35 M head ( Terrace Pump for Club-2 and Nursery school) <b>Proposed</b>	No.s	2	1,20,000	2,40,000
4	Provision for boosting chamber <b>Already Approved</b>	No.s		L.S.	
5	Provision for chlorination plant complete <b>Already Approved</b>	No.s	1	2,00,000	
6	Provision for making foundations and erection of Pumping Machinery: <b>Already Approved</b>	LS			
7	Provision for pipes, valves and specials inside boosting chamber. <b>Already Approved</b>	LS		4,00,000	
8	Provision for electric service connection including electrical Fittings for tube-well and boosting chamber etc. <b>Already Approved</b>	LS		3,50,000	
9	Construction of U.G. tanks (375 Domestic + 225 Flushing+ 675 Fire) <b>Already Approved</b>	KL	1275	55,000	
10	Provision for carriage of material and other unforeseen Items etc. <b>Already Approved</b>	LS		5,00,000	
11	Boring and installation t.w. reverse Rotary ring complete with pipe and stationary & a depth of about 120 m complete in all respect. <b>Already Approved</b>	No.s	1	15,00,000	
12	Provision for complete of T.W. chamber size 1.50 m complete in all respect <b>Already Approved</b>	LS		1,50,000	
13	Providing and installing electrically driven electro or submersible set capable of delivering 25KL water per hr. against a total head of 75 m complete with motor and other accessories. <b>Already Approved</b>	LS		125000	
<b>Total Cost</b>					<b>12,90,000</b>
C/O To Abstract of Cost for Sub work No. I (in Lacs)					<b>12.90</b>

**Sub-Work No. I  
Sub Head No. 02****Water Supply & Fire Fighting**

Sl.No.	Description	Unit	Qty.	Rate	Amount in Rs.
1	Providing , laying , jointing and testing pipe lines including Cost of excavation etc. complete in all respects.				
	a) 100 mm dia. D.I. pipe <b>Already Approved</b>	Meter	350	1,460	
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respects				
	a) 100 mm dia. <b>Already Approved</b>	No.s	1	12,000	
3	Providing and fixing indicating plates for sluice valve and air Valves. <b>Already Approved</b>				
		No.s	1	2,000	
4	Providing and fixing air release valve and scour valve . <b>Already Approved</b>				
		No.s	2	10,000	
5	Provision for carriage for materials and other unforeseen items. <b>Already Approved</b>	LS		-	
6	Making Water Supply Connection with HUDA line including water meter. <b>Already Approved</b>	LS		-	
7	Provision for cutting of roads and making good to its original Conditions. <b>Already Approved</b>	LS		-	
<b>Total Cost</b>					-
<b>C/O To Abstract of Cost for Sub work No. I (in Lacs)</b>					<b>0.00</b>

**Sub Work No. I**  
**Sub-Head No. 03****Water Supply & Fire Fighting**  
**Distribution System**  
(Domestic & Flushing water)

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount in Rs.</b>
1	Providing , Fixing , jointing and testing G.I pipe line running at the basement ceiling level including Fittings, valves, etc. complete in all respect.( water supply )				
a)	100 mm dia. <b>Already Approved</b>	Meter	1,350	1,460	
2	Provision for carriage of materials and other unforeseen items. <b>Already Approved</b>	LS		1,00,000	
3	Providing and fixing valves including chamber complete in all respects. <b>Already Approved</b>				
a)	100 mm dia.	No.s	6	12,000	
4	Provision for providing and fixing air valve and scour valve incl. cost of brick masonry. <b>Already Approved</b>	LS		2,00,000	
5	Provision for providing and fixing indicating plates for sluice valve and air valve. <b>Already Approved</b>	LS		2,00,000	
6	Provision for T.W. line upto UGT complete. <b>Already Approved</b>	LS		50,000	
<b>Total Cost</b>					-
<b>C/O To Abstract of Cost for Sub work No. I (in Lacs)</b>					<b>0.00</b>

**Sub Work No. I**  
**Sub-Head No. 04**

**Water Supply & Fire Fighting**  
**External Fire Hydrant**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount in Rs.</b>
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. <b>Already Approved</b>				
a)	150 mm dia.	Meter	1150	2,040	
a)	100 mm dia.	Meter	630	1,460	
b)	80 mm dia.	Meter	72	1,000	
2	Providing & fixing Fire brigade Inlet and draw out connection complete in all respect. <b>Already Approved</b>				
	150 mm dia.	No.s	2	15,000	
3	Providing & fixing sluice valve complete in all respect. <b>Already Approved</b>				
	150 mm dia.	No.s	6	15,000	
4	Providing & fixing Fire Hydrant complete in all respect. <b>Already Approved</b>				
		No.s	36	15,000	
5	Providing for carriage of material as other unforeseen items. <b>Already Approved</b>	LS			
6	Providing and fixing indicating plates for sluice valve and air Valves. <b>Already Approved</b>				
		No.s	42	2,000	
<b>Total Cost</b>					-
<b>C/O To Abstract of Cost for Sub work No. I (in Lacs)</b>					<b>0.00</b>

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**SUBJECT :MATERIAL STATEMENT OF DOMESTIC WATER SUPPLY SYSTEM**

Sl. No.	Name of the Node	Length in Meter	Dia. of Pipe	100 mm dia.	80 mm dia.	65 mm dia.	50 mm dia.	40mm dia.	32 mm dia.	25 mm dia.	20 mm dia.
		m	mm	m	m		m	m	m	m	m
	1	2	3	4	5	6	7	8	9	10	11
1	COMMERCIAL OHT-DWS 1	138	100	138	-	-	-	-	-	-	-
2	DWS1-TOWER-2 OHT	25	100	25	-	-	-	-	-	-	-
3	DWS1-DWS2	8.7	100	9	-	-	-	-	-	-	-
4	DWS2-TOWER-1 OHT	65	100	65	-	-	-	-	-	-	-
5	DWS2-DWS3	117	100	117	-	-	-	-	-	-	-
6	DWS3-TOWER-4 OHT	25	100	25	-	-	-	-	-	-	-
7	DWS3-DWS6	5	100	5	-	-	-	-	-	-	-
8	EWS OHT- DWS4	70	100	70	-	-	-	-	-	-	-
9	DWS4-TOWER-5 OHT	25	100	25	-	-	-	-	-	-	-
10	DWS4-DWS5	61.5	100	62	-	-	-	-	-	-	-
11	DWS5-TOWER-3 OHT	25	100	25	-	-	-	-	-	-	-
12	DWS5-DWS6	9.7	100	10	-	-	-	-	-	-	-
13	DWS6-DWS7	43	100	43	-	-	-	-	-	-	-
14	DWS7-CLUB	10	100	10	-	-	-	-	-	-	-
15	DWS7-PLANTROOM	20	100	20	-	-	-	-	-	-	-
	Total			648							
	Say(m)			650							

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**SUBJECT : HYDRAULIC DESIGN CHART FOR DOMESTIC WATER SUPPLY SYSTEM**

Sl. No.	Name of the Node	Length in Meter	Average Daily water Demand			Peak water demand = 3x Avg. Daily Water		Design of Pipe			Residual head	
			Self	Previous		Total Water Demand	Total Water Demand	Size of pipe (dia)	Head Loss in	Velocity	Start	End
			m	LPD	LPD	LPD	LPD	m <sup>3</sup> /hr	mm	m	m/sec	m
1	2	3	4	5	6	7	8	9	10	11	12	13
1	COMMERCIAL OHT-DWS 1	138	12000		12000	36000	1.50	25	10.16	0.85	145	134.84
2	TOWER-2 OHT-DWS1	115	30000		30000	90000	3.75	32	13.89	1.30	145	131.11
3	DWS1-DWS2	8.7	42000		42000	126000	5.25	40	0.66	1.16	145	144.34
4	TOWER-1 OHT-DWS2	170	35000		35000	105000	4.38	40	9.21	0.97	145	135.79
5	DWS2-DWS3	117	77000		77000	231000	9.63	50	9.21	1.36	145	135.79
6	TOWER-4 OHT-DWS3	109	30000		30000	90000	3.75	32	13.16	1.30	145	131.84
7	DWS3-DWS6	5	107000		107000	321000	13.38	65	0.20	1.12	145	144.80
8	EWS OHT- DWS4	124.7	17000		17000	51000	2.13	25	17.51	1.20	145	127.49
9	TOWER-5 OHT-DWS4	109.3	25000		25000	75000	3.13	32	9.42	1.08	145	135.58
10	DWS4-DWS5	61.5	42000		42000	126000	5.25	40	4.67	1.16	145	140.33
11	TOWER-3 OHT-DWS5	111.2	35000		35000	105000	4.38	40	6.03	0.97	145	138.97
12	DWS5-DWS6	9.7	77000		77000	231000	9.63	50	0.76	1.36	145	144.24
13	DWS6-DWS7	42.8	184000		184000	552000	23.00	80	1.71	1.27	145	143.29
14	CLUB OHT -DWS7	31.5	2000		2000	6000	0.25	20	0.25	0.22	145	144.75
15	DWS7-PLANTROOM	19.2	186000		186000	558000	23.25	100	0.26	0.82	145	144.74



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**SUBJECT :MATERIAL STATEMENT OF FLUSHING WATER SUPPLY SYSTEM**

Sl. No.	Name of the Node	Length in Meter	Dia. of provided	100 mm dia.	80 mm dia.	65 mm dia.	50 mm dia.	40mm dia.	32 mm dia.	25 mm dia.	20 mm dia.
		m	mm	m	m		m	m	m	m	m
1	2	3	4	5	6	7	8	9	10	11	
1	EWS OHT-FWS1	124	100	124	-	-	-	0	-	-	-
2	TOWER-5 OHT-FWS1	25	100	25	-	-	-	0	-	-	-
3	FWS1-FWS2	61.9	100	62	-	-	-	0	-	-	-
4	TOWER-3 OHT-FWS2	25	100	25	-	-	-	0	-	-	-
5	FWS2-FWS4	9.6	100	10	-	-	-	0	-	-	-
6	CLUB OHT-FWS3	5	100	5	-	-	-	0	-	-	-
7	FWS3-FWS4	42.8	100	43	-	-	-	0	-	-	-
8	FWS4-FWS5	5	100	5	-	-	-	0	-	-	-
9	TOWER-4 OHT-FWS5	25	100	25	-	-	-	0	-	-	-
10	FWS5-FWS7	117	100	117	-	-	-	0	-	-	-
11	COMMERCIAL OHT-FWS6	137.8	100	138	-	-	-	0	-	-	-
12	TOWER-2 OHT-FWS6	25	100	25	-	-	-	0	-	-	-
13	FWS6-FWS7	8.7	100	9	-	-	-	0	-	-	-
14	FWS7-FWS8	61	100	61	-	-	-	0	-	-	-
15	TOWER-1 OHT-FWS8		100	-	-	-	-	0	-	-	-
16	FWS8-STP	8.9	100	9	-	-	-	0	-	-	-
	Total			682							
	<b>Say(m)</b>			<b>700</b>							

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**SUBJECT : HYDRAULIC DESIGN CHART FOR FLUSHING WATER SUPPLY SYSTEM**

Sl. No.	Name of the Node	Length in Meter	Average Daily water Demand			Peak water demand = 3x Avg. Daily Water demand		Design of Pipe			Residual head	
			Self	Previous	Total	Total Water Demand	Total Water Demand	Size of pipe (dia)	Head Loss in	Velocity	Start	End
			m	LPD	LPD	LPD	LPD	m <sup>3</sup> /hr	mm	m	m/sec	m
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
1	EWS OHT-FWS1	124.4	10000		10000	30000	1.25	20	19.38	1.11	145.00	125.62
2	TOWER-5 OHT-FWS1	109.4	12500		12500	37500	1.56	20	25.77	1.38	145.00	119.23
3	FWS1-FWS2	61.9	22500		22500	67500	2.81	32	4.39	0.97	145.00	140.61
4	TOWER-3 OHT-FWS2	121.3	16500		16500	49500	2.06	25	16.11	1.17	145.00	128.89
5	FWS2-FWS4	9.6	39000		39000	117000	4.88	40	0.64	1.08	145.00	144.36
6	CLUB OHT-FWS3	31.5	5000		5000	15000	0.63	20	1.36	0.55	145.00	143.64
7	FWS3-FWS4	42.8	5000		5000	15000	0.63	20	1.85	0.55	145.00	143.15
8	FWS4-FWS5	5	44000		44000	132000	5.50	40	0.41	1.22	145.00	144.59
9	TOWER-4 OHT-FWS5	109.2	15000		15000	45000	1.88	25	12.16	1.06	145.00	132.84
10	FWS5-FWS7	117	59000		59000	177000	7.38	50	5.63	1.04	145.00	139.37
11	COMMERCIAL OHT-FWS6	137.8	17000		17000	51000	2.13	25	19.35	1.20	145.00	125.65
12	TOWER-2 OHT-FWS6	115.3	15000		15000	45000	1.88	25	12.84	1.06	145.00	132.16
13	FWS6-FWS7	8.7	32000		32000	96000	4.00	40	0.40	0.88	145.00	144.60
14	FWS7-FWS8	61	91000		91000	273000	11.38	65	1.82	0.95	145.00	143.18
15	TOWER-1 OHT-FWS8	108.6	16500		16500	49500	2.06	25	14.43	1.17	145.00	130.57
16	FWS8-STP	8.9	107500		107500	322500	13.44	65	0.36	1.13	145.00	144.64

**Sub-work No. II****Sewerage scheme**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount in Rs.</b>
1	Providing , jointing , cutting and testing SW pipe class "A" and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc. complete. <b>Already Approved</b>				
	a) SW pipe 200 mm i/d avg. depth 0-2.5 M	Meter	200	1700	
	b) SW pipe 250 mm i/d avg. depth 2.5 - 4.5 M	Meter	480	2000	
2	Provision for cartage of material & other unforeseen item. <b>Already Approved</b>	LS			
3	Provision for lighting and watching. <b>Already Approved</b>	LS			
4	Provision for making Sewer Connection with HSVP on master road. <b>Already Approved</b>	LS			
5	Provision for STP of capacity 510 KLD. ( Cost of Civil/Mechanical ) @ 16000/- complete in all respect. <b>Already Approved</b>	LS			
6	Provision for vent pipe as per P.H required. <b>Already Approved</b>	LS			
7	Provision of cutting of roads and making good to its original. <b>Already Approved</b>	LS			
	<b>Total</b>				-
	Add 3% contingencies & PH charges				-
	<b>Total</b>				-
	Add 49% Dept. Charges, Price Escalation Unforeseen, charge				-
	<b>Total Cost</b>				-
	<b>C/O. to final abstract of cost (say in Lacs)</b>				<b>0.00</b>

DESIGN CALCULATION FOR SEWERAGE SYSTEM

PROJEC T:- PRO POS ED GRO UP HOUS IN	SEWER LINE	Length of line	Population ( 5 person/flat, 2 person/Ews unit)		Total Water Requirment @ 172.5 Ltrs / person (DU) and @ 45 Ltrs /person (Club)	Sewage Self Load (85% of Water Requirement)	Sewage Load (Average)			Peak Flow ' @ 3x Av. Flow	Infiltration @ 25% Av. Discharge	Sewage Load (Peak)	Dia of Pipe	Slope 1 IN	Fall in Line	Velocity In	Capacity of Pipe	Levels at Start		Levels at End		MAN HOLE DEPTH				REMARK
																		Ground Lvl. at Start	Invert Lvl at Start	Ground lvl at End	Invert Lvl at End					
																		Mtr	No. of Parson	Cemmulation Population	LPD					
1	S1 - S2	16.13	113	113	19493	16568.63	0.19	0.00	0.38	1.15	0.10	1.15	200	145	0.11	0.75	11.81	0.500	-0.70	0.500	-0.811	1.20	1.31	2.51	1.26	
2	S2 -S3	12.78	112	225	38813	32990.63	0.38	0.00	0.76	2.29	0.19	2.29	200	145	0.09	0.75	11.81	0.500	-0.811	0.500	-0.899	1.31	1.40	2.71	1.36	
3	S3 -S4	8.24	111	336	57960	49266.00	0.57	0.00	1.14	3.42	0.29	3.42	200	145	0.06	0.75	11.81	0.500	-0.899	0.500	-0.956	1.40	1.46	2.86	1.43	
4	S4 -S5	30.34	112	448	77280	65688.00	0.76	0.00	1.52	4.56	0.38	4.56	250	195	0.16	0.75	18.46	0.500	-0.956	0.500	-1.112	1.46	1.61	3.07	1.53	
5	S5 -S6	12.01	185	633	109193	92813.63	1.07	0.00	2.15	6.45	0.54	6.45	250	195	0.06	0.75	18.46	0.600	-1.112	0.600	-1.173	1.71	1.77	3.49	1.74	
6	S6 -S7	25.54	180	813	140243	119206.13	1.38	0.00	2.76	8.28	0.69	8.28	250	195	0.13	0.75	18.46	0.600	-1.173	0.600	-1.304	1.77	1.90	3.68	1.84	
7	S7 -S8	25.34	190	1003	173018	147064.88	1.70	0.00	3.40	10.21	0.85	10.21	250	195	0.13	0.75	18.46	0.600	-1.304	0.600	-1.434	1.90	2.03	3.94	1.97	
8	S8-S9	24.60	70	1073	185093	157328.63	1.82		3.64	10.93	0.91	10.93	250	195	0.13	0.75	18.46	0.600	-1.434	0.600	-1.560	2.03	2.16	4.19	2.10	
9	S9 -S10	18.53	75	1148	198030	168325.50	1.95	0.00	3.90	11.69	0.97	11.69	250	195	0.10	0.75	18.46	0.600	-1.560	0.600	-1.655	2.16	2.26	4.42	2.21	
10	S10-S11	6.71	65	1213	209243	177856.13	2.06	0.00	4.12	12.35	1.03	12.35	250	195	0.03	0.75	18.46	0.600	-1.655	0.600	-1.690	2.26	2.29	4.55	2.27	
11	S11 -S12	20.03	73	1286	221835	188559.75	2.18	0.00	4.36	13.09	1.09	13.09	250	195	0.10	0.75	18.46	0.600	-1.690	0.600	-1.793	2.29	2.39	4.68	2.34	
12	S12 -S13	8.26	71	1357	234083	198970.13	2.30	0.00	4.61	13.82	1.15	13.82	250	195	0.04	0.75	18.46	0.600	-1.793	0.600	-1.835	2.39	2.43	4.83	2.41	
13	S13 -S14	18.21	68	1425	245813	208940.63	2.42	0.00	4.84	14.51	1.21	14.51	250	195	0.09	0.75	18.46	0.600	-1.835	0.600	-1.928	2.43	2.53	4.96	2.48	
14	S14 -S15	20.00	73	1498	258405	219644.25	2.54	0.00	5.08	15.25	1.27	15.25	250	195	0.10	0.75	18.46	0.600	-1.928	0.600	-2.031	2.53	2.63	5.16	2.58	
15	S15 -S16	7.20	85	1583	273068	232107.38	2.69	0.00	5.37	16.12	1.34	16.12	250	195	0.04	0.75	18.46	0.500	-2.031	0.500	-2.068	2.53	2.57	5.10	2.55	
16	S16 -S17	14.82	0	1583	273068	232107.38	2.69	0.00	5.37	16.12	1.34	16.12	250	195	0.08	0.75	18.46	0.500	-2.068	0.500	-2.144	2.57	2.64	5.21	2.61	
17	S17 -S18	17.70	0	1583	273068	232107.38	2.69	0.00	5.37	16.12	1.34	16.12	250	195	0.09	0.75	18.46	0.560	-2.144	0.560	-2.235	2.70	2.79	5.50	2.75	
18	S18 -EQT	15.73	0	1583	273068	232107.38	2.69	0.00	5.37	16.12	1.34	16.12	250	195	0.08	0.75	18.46	0.570	-2.235	0.570	-2.315	2.80	2.89	5.69	2.84	
19	S19 -S20	15.55	100	100	17250	14662.50	0.17	0.00	0.34	1.02	0.08	1.02	200	145	0.11	0.75	11.81	1.500	0.300	1.500	0.193	1.20	1.31	2.51	1.25	
20	S20 -S21	4.50	210	310	53475	45453.75	0.53	0.00	1.05	3.16	0.26	3.16	200	145	0.03	0.75	11.81	1.500	0.193	1.500	0.162	1.31	1.34	2.65	1.32	
21	S21 -S22	10.59	52	362	62445	53078.25	0.61	0.00	1.23	3.69	0.31	3.69	200	145	0.07	0.75	11.81	1.500	0.162	1.500	0.089	1.34	1.41	2.75	1.37	
22	S22 -S23	19.78	55	417	71933	61142.63	0.71	0.00	1.42	4.25	0.35	4.25	200	145	0.14	0.75	11.81	1.500	0.089	1.500	-0.048	1.41	1.55	2.96	1.48	
23	S23 -S24	20.16	43	460	79350	67447.50	0.78	0.00	1.56	4.68	0.39	4.68	200	145	0.14	0.75	11.81	1.500	-0.048	1.500	-0.187	1.55	1.69	3.23	1.62	
24	S24 -S25	14.64	47	507	87458	74338.88	0.86	0.00	1.72	5.16	0.43	5.16	200	145	0.10	0.75	11.81	1.500	-0.187	1.500	-0.288	1.69	1.79	3.47	1.74	
25	S25 -S26	17.69	50	557	96083	81670.13	0.95	0.00	1.89	5.67	0.47	5.67	200	145	0.12	0.75	11.81	1.600	-0.288	1.600	-0.410	1.89	2.01	3.90	1.95	
26	S26 -S27	8.23	55	612	105570	89734.50	1.04	0.00	2.08	6.23	0.52	6.23	200	145	0.06	0.75	11.81	1.600	-0.410	1.600	-0.466	2.01	2.07	4.08	2.04	
27	S27 -S28	2.00	55	667	115058	97798.88	1.13	0.00	2.26	6.79	0.57	6.79	200	145	0.01	0.75	11.81	1.600	-0.466	1.600	-0.480	2.07	2.08	4.15	2.07	
28	S28 -S29	10.82	53	720	124200	105570.00	1.22	0.00	2.44	7.33	0.61	7.33	250	195	0.06	0.75	18.46	1.600	-0.480	1.600	-0.536	2.08	2.14	4.22	2.11	
29	S29 -S30	18.32	60	780	134550	114367.50	1.32	0.00	2.65	7.94	0.66	7.94	250	195	0.09	0.75	18.46	1.600	-0.536	1.600	-0.630	2.14	2.23	4.37	2.18	
30	S30 -S31	19.98	0	780	134550	114367.50	1.32	0.00	2.65	7.94	0.66	7.94	250	195	0.10	0.75	18.46	1.600	-0.630	1.600	-0.732	2.23	2.33	4.56	2.28	
31	S31 -S37	28.03	0	780	134550	114367.50	1.32	0.00	2.65	7.94	0.66	7.94	250	195	0.14	0.75	18.46	1.600	-0.732	1.600	-0.876	2.33	2.48	4.81	2.40	
32	S32 -S33	17.80	40	40	6900	5865.00	0.07	0.00	0.14	0.41	0.03	0.41	200	145	0.12	0.75	11.81	1.600	0.40	1.600	0.277	1.20	1.32	2.52	1.26	
33	S33 -S34	25.33	38	78	10530	8950.50	0.10	0.00	0.21	0.62	0.05	0.62	200	145	0.17	0.75	11.81	1.600	0.277	1.600	0.103	1.32	1.50	2.82	1.41	
34	S34 -S35	17.76	40	118	20355	17301.75	0.20	0.00	0.40	1.20	0.10	1.20	250	195	0.09	0.75	18.46	1.600	0.103	1.600	0.011	1.50	1.59	3.09	1.54	
35	S35 -S36	29.19	33	151	26048	22140.38	0.26	0.00	0.51	1.54	0.13	1.54	250	195	0.15	0.75	18.46	1.600	0.011	1.600	-0.138	1.59	1.74	3.33	1.66	
35	S36 -S37	11.57	37	188	32430	27565.50	0.32	0.00	0.64	1.91	0.16	1.91	250	195	0.06	0.75	18.46	1.600	-0.138	1.600	-0.198	1.74	1.80	3.54	1.77	
47	S37 -S38	27.30	0	968	166980	141933.00	1.64	0.00	3.29	9.86	0.82	9.86	250	195	0.14	0.75	18.46	1.500	-0.88	1.600	-1.016	2.38	2.62	4.99	2.50	
48	S38 -S39	18.48	0	968	166980	141933.00	1.64	0.00	3.29	9.86	0.82	9.86	250	195	0.09	0.75	18.46	1.600	-1.016	1.500	-1.111	2.62	2.61	5.23	2.61	
49	S39- S40	29.59	0	968	166980	141933.00	1.64	0.00	3.29	9.86	0.82	9.86	250	195	0.15	0.75	18.46	1.500	-1.111	1.500	-1.262	2.61	2.76	5.37	2.69	
50	S40 - EQT	2.77	0	968	166980	141933.00	1.64	0.00	3.29	9.86	0.82	9.86	250	195	0.01	0.75	18.46	1.500	-1.262	1.500	-1.277	2.76	2.78	5.54	2.77	

PROJECT:- PROPOSED GROUP HOUSING SITE MEASURING 9.53 ACRES IN RESIDENTIAL PLOTTED COLONY MEASURING 177.86 ACRES (LICENSE NO. 10 OF 2009 DATED DT.21.05.2009, LICENSE NO. 113 OF 2011 DATED 22.12.2011 & LICENSE NO. 117 OF 2022 DATED 23.08.2022) IN SECTOR 65 & 62, GURUGRAM BEING DEVELOPED BY ACTIVE PROMOTERS AND OTHERS IN COLLABORATION WITH EMAAR INDIA LTD (FORMERLY KNOWN AS EMAAR MGF LAND LTD)

MATERIAL STATEMENT FOR SEWERAGE SYSTEM

PROJECT:- PROPOSED GROUP HOUSING SITE	Sewer Line	Length	Dia of Pipe	Length of line In mtr.			
				150mm	200mm	250mm	300 mm
	<b>NODE</b>	<b>(mm)</b>	<b>(mm)</b>				
1	S1 - S2	16.13	200		16.13		
2	S2 -S3	12.78	200		12.78		
3	S3 -S4	8.24	200		8.24		
4	S4 -S5	30.34	250			30.34	
5	S5 -S6	12.01	250			12.01	
6	S6 -S7	25.54	250			25.54	
7	S7 -S8	25.34	250			25.34	
8	S8-S9	24.60	250			24.60	
9	S9 -S10	18.53	250			18.53	
10	S10-S11	6.71	250			6.71	
11	S11 -S12	20.03	250			20.03	
12	S12 -S13	8.26	250			8.26	
13	S13 -S14	18.21	250			18.21	
14	S14 -S15	20.00	250			20.00	
15	S15 -S16	7.20	250			7.20	
16	S16 -S17	14.82	250			14.82	
17	S17 -S18	17.70	250			17.70	
18	S18 -EQT	15.73	250			15.73	
19	S19- S20	15.55	200		15.55		
20	S20 - S21	4.50	200		4.50		
21	S21 - S22	10.59	200		10.59		
22	S22 - S23	19.78	200		19.78		
23	S23 - S24	20.16	200		20.16		
24	S24 - S25	14.64	200		14.64		
25	S25 - S26	17.69	200		17.69		
26	S26 - S27	8.23	200		8.23		
27	S27 - S28	2.00	200		2.00		
28	S28 - S29	10.82	250			10.32	
29	S29 - S30	18.32	250			18.32	
30	S30 - S31	19.98	250			19.98	
31	S31 - S37	28.03	250			28.3	
32	S32 - S33	17.80	200		17.80		
33	S33 - S34	25.33	200		25.33		
34	S34 - S35	17.76	250			17.8	
35	S35 - S36	29.19	250			29.19	
36	S36 - S37	11.57	250			11.57	
37	S37 - S38	27.30	250			27.3	
38	S38 - S39	18.48	250			18.48	
39	S39- S40	29.59	250			29.59	
40	S40 - EQT	2.77	250			2.77	
<b>Total</b>					<b>193.42</b>	<b>478.60</b>	
<b>Say (m)</b>					<b>200</b>	<b>480</b>	

**Sub-Work No. III****Storm Water Drainage scheme**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount in Rs.</b>
1	Providing and laying R.C.C. pipe drain class NP-3 With cement joint , manholes excavation etc complete in all respect. <b>Already Approved</b>				
	a) 400 mm dia.	Meter	1150	2,500	
	b) 500 mm dia.	Meter	0	2,000	-
2	Provision for cost of Road gullies with 300 mm pipe connection. <b>Already Approved</b>	Nos.	108	5,000	
3	Provision for grating on 450mm wide drain channel. <b>Already Approved</b>	Meter	0	500	
4	Providing Rain Harvesting arrangements. <b>Already Approved</b>	Nos	12	3,50,000	
5	Provision for Shoring & Timbering <b>Already Approved</b>	LS			
6	Provision for Lighting, Watching & Temp. Drain Arrangements. <b>Already Approved</b>	LS			
7	Provision for Carriage of Material & other unforeseen items. <b>Already Approved</b>	LS			
8	Provision for Making Connection to HUDA Line on master road. <b>Already Approved</b>	LS			
9	Provision of cutting of roads and making good to its original. <b>Already Approved</b>	LS			
10	Provision for temporary desposed arrangement till HSVP services all provided. <b>Already Approved</b>	LS			
	<b>Total</b>				-
	Add 3% contingencies & PH charges				-
	<b>Total</b>				-
	Add 49% Dept. Charges, Price Escalation Unforeseen, charge				-
	<b>Total Cost</b>				-
	<b>C/O. to final abstract of cost (say in Lacs)</b>				<b>0.00</b>

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DESIGN CALCULATION FOR STORM WATER DRAINAGE SYSTEM

SL NO	LINE NO.		LENGT H MTR	SELF AREA TO BE DRAINED IN SQM	AREA IN HECTARES			DISCHARGE E IN CUM/SEC RAIN INTENSITY 6.25mm M3/HR	DISCHARGE IN M3/SEC	Pipe Dia 400MM	SLOPE 1 IN	VELOCITY M/SEC	DISCHAR GE CAPACIT Y IN M3/SEC	Check	GROUND LEVEL AT START MTR	GROUND LEVEL AT END MTR	FALL MTR	INVERT LEVEL AT START MTR.	INVERT LEVEL AT END MTR	DEPTH AT START MTR.	DEPTH AT END MTR	AVERAGE DEPTH MTR.	REMARKS
	FROM	TO			SELF	BRANC H	TOTAL																
1	SMH-01	SMH-02	13.9	1392	0.00	0.14	0.14	6.525	0.0018	400	400	0.829	0.10	OK	0.500	0.500	0.035	-0.400	-0.435	0.900	0.935	0.917	
2	SMH-02	RWH-11	12.2	336	0.00	0.03	0.17	8.100	0.0023	400	400	0.829	0.10	OK	0.500	0.500	0.031	-0.435	-0.465	0.935	0.965	0.950	
3	RWH-11	SMH-03	5.1	0	0.00	0.00	0.17	8.100	0.0023	400	400	0.829	0.10	OK	0.500	0.500	0.013	-0.465	-0.478	0.965	0.978	0.972	
4	SMH-03	SMH-04	8.2	200	0.00	0.02	0.19	9.038	0.0025	400	400	0.829	0.10	OK	0.500	0.500	0.021	-0.478	-0.499	0.978	0.999	0.988	
5	SMH-04	SMH-05	4.2	191	0.00	0.02	0.21	9.933	0.0028	400	400	0.829	0.10	OK	0.500	0.500	0.011	-0.499	-0.509	0.999	1.009	1.004	
6	SMH-05	SMH-06	12.2	760	0.00	0.08	0.29	13.495	0.0037	400	400	0.829	0.10	OK	0.500	0.500	0.031	-0.509	-0.540	1.009	1.040	1.024	
7	SMH-06	SMH-07	20	327	0.00	0.03	0.32	15.028	0.0042	400	400	0.829	0.10	OK	0.500	0.500	0.050	-0.540	-0.590	1.040	1.090	1.065	
8	SMH-07	RWH-12	10.3	985	0.00	0.10	0.42	19.645	0.0055	400	400	0.829	0.10	OK	0.500	0.500	0.026	-0.590	-0.615	1.090	1.115	1.102	
9	RWH-12	CT	17	0	0.00	0.00	0.42	19.645	0.0055	400	400	0.829	0.10	OK	0.500	0.500	0.043	-0.615	-0.658	1.115	1.158	1.137	
10	SMH-8	RWH-1	12.9	1129	0.00	0.11	0.11	5.292	0.0015	400	400	0.829	0.10	OK	0.600	0.600	0.032	-0.300	-0.332	0.900	0.932	0.916	
11	RWH-1	SMH-9	1.7	0	0.00	0.00	0.11	5.292	0.0015	400	400	0.829	0.10	OK	0.600	0.600	0.004	-0.332	-0.337	0.932	0.937	0.934	
12	SMH-9	SMH-10	10.8	1170	0.00	0.12	0.23	10.777	0.0030	400	400	0.829	0.10	OK	0.600	0.600	0.027	-0.337	-0.364	0.937	0.964	0.950	
13	SMH-10	SMH-11	12.0	184	0.00	0.02	0.25	11.639	0.0032	400	400	0.829	0.10	OK	0.600	0.600	0.030	-0.364	-0.394	0.964	0.994	0.979	
14	SMH-11	SMH-12	17.7	1185	0.00	0.12	0.37	17.194	0.0048	400	400	0.829	0.10	OK	0.600	0.600	0.044	-0.394	-0.438	0.994	1.038	1.016	
15	SMH-12	RWH-2	10.3	162	0.00	0.02	0.38	17.953	0.0050	400	400	0.829	0.10	OK	0.600	0.600	0.026	-0.438	-0.464	1.038	1.064	1.051	
16	RWH-2	SMH-13	3.1	0	0.00	0.00	0.38	17.953	0.0050	400	400	0.829	0.10	OK	0.600	0.600	0.008	-0.464	-0.471	1.064	1.071	1.067	
17	SMH-13	SMH-14	20.8	271	0.00	0.03	0.41	19.223	0.0053	400	400	0.829	0.10	OK	0.600	0.600	0.052	-0.471	-0.523	1.071	1.123	1.097	
18	SMH-15	SMH-16	16.3	727	0.00	0.07	0.07	3.408	0.0009	400	400	0.829	0.10	OK	1.600	1.600	0.041	0.700	0.659	0.900	0.941	0.920	
19	SMH-16	SMH-17	14.6	872	0.00	0.09	0.16	7.495	0.0021	400	400	0.829	0.10	OK	1.600	1.600	0.037	0.659	0.623	0.941	0.977	0.959	
20	SMH-17	RWH-5	9.6	500	0.00	0.05	0.21	9.839	0.0027	400	400	0.829	0.10	OK	1.600	1.600	0.024	0.623	0.599	0.977	1.001	0.989	
21	RWH-5	SMH-18	17.8	0	0.00	0.00	0.21	9.839	0.0027	400	400	0.829	0.10	OK	1.600	1.600	0.045	0.599	0.554	1.001	1.046	1.024	
22	SMH-18	SMH-19	13.2	300	0.00	0.03	0.24	11.245	0.0031	400	400	0.829	0.10	OK	1.600	1.600	0.033	0.554	0.521	1.046	1.079	1.062	
23	SMH-19	SMH-20	18.1	240	0.00	0.02	0.26	12.370	0.0034	400	400	0.829	0.10	OK	1.600	1.600	0.045	0.521	0.476	1.079	1.124	1.101	

24	SMH-21	SMH-22	7.9	1195	0.00	0.12	0.12	5.602	0.0016	400	400	0.829	0.10	OK	1.600	1.600	0.020	0.700	0.680	0.900	0.920	0.910
25	SMH-22	SMH-23	9.6	338	0.00	0.03	0.15	7.186	0.0020	400	400	0.829	0.10	OK	1.600	1.600	0.024	0.680	0.656	0.920	0.944	0.932
26	SMH-23	SMH-24	16.5	337	0.00	0.03	0.19	8.766	0.0024	400	400	0.829	0.10	OK	1.600	1.600	0.041	0.656	0.615	0.944	0.985	0.964
27	SMH-24	SMH-25	12.0	131	0.00	0.01	0.20	9.380	0.0026	400	400	0.829	0.10	OK	1.600	1.600	0.030	0.615	0.585	0.985	1.015	1.000
28	SMH-25	RWH-6	10.2	137	0.00	0.01	0.21	10.022	0.0028	400	400	0.829	0.10	OK	1.600	1.600	0.026	0.585	0.560	1.015	1.041	1.028
29	RWH-6	SMH-26	1.9	0	0.00	0.00	0.21	10.022	0.0028	400	400	0.829	0.10	OK	1.600	1.600	0.005	0.560	0.555	1.041	1.045	1.043
30	SMH-26	SMH-27	24.0	242	0.00	0.02	0.24	11.156	0.0031	400	400	0.829	0.10	OK	1.600	1.600	0.060	0.555	0.495	1.045	1.105	1.075
31	SMH-27	SMH-28	12.7	140	0.00	0.01	0.25	11.813	0.0033	400	400	0.829	0.10	OK	1.600	1.600	0.032	0.495	0.463	1.105	1.137	1.121
32	SMH-28	SMH-29	12.4	644	0.00	0.06	0.32	14.831	0.0041	400	400	0.829	0.10	OK	1.600	1.600	0.031	0.463	0.432	1.137	1.168	1.153
33	SMH-29	SMH-30	11.4	235	0.00	0.02	0.34	15.933	0.0044	400	400	0.829	0.10	OK	1.600	1.600	0.029	0.432	0.404	1.168	1.197	1.182
34	SMH-30	RWH-7	9.8	407	0.00	0.04	0.38	17.841	0.0050	400	400	0.829	0.10	OK	1.600	1.600	0.025	0.404	0.379	1.197	1.221	1.209
35	RWH-7	SMH-31	8.1	0	0.00	0.00	0.38	17.841	0.0050	400	400	0.829	0.10	OK	1.600	1.600	0.020	0.379	0.359	1.221	1.241	1.231
36	SMH-31	SMH-20	18.3	335	0.00	0.03	0.41	19.411	0.0054	400	400	0.829	0.10	OK	1.600	1.600	0.046	0.359	0.313	1.241	1.287	1.264
37	SMH-20	SMH-46	8.3	232	0.00	0.02	0.44	20.498	0.0057	400	400	0.829	0.10	OK	1.600	1.600	0.021	0.313	0.292	1.287	1.308	1.297
38	SMH-32	SMH-33	14.4	297	0.00	0.03	0.03	1.392	0.0004	400	400	0.829	0.10	OK	1.500	1.500	0.036	0.600	0.564	0.900	0.936	0.918
39	SMH-33	SMH-34	13.2	242	0.00	0.02	0.05	2.527	0.0007	400	400	0.829	0.10	OK	1.500	1.500	0.033	0.564	0.531	0.936	0.969	0.953
40	SMH-34	SMH-35	15.0	802	0.00	0.08	0.13	6.286	0.0017	400	400	0.829	0.10	OK	1.500	1.500	0.038	0.531	0.494	0.969	1.007	0.988
41	SMH-35	RWH-10	10.0	158	0.00	0.02	0.15	7.027	0.0020	400	400	0.829	0.10	OK	1.500	1.550	0.025	0.494	0.469	1.007	1.082	1.044
42	RWH-10	SMH-36	12.3	0	0.00	0.00	0.15	7.027	0.0020	400	400	0.829	0.10	OK	1.550	1.550	0.031	0.469	0.438	1.082	1.112	1.097
43	SMH-36	SMH-37	20.7	290	0.00	0.03	0.18	8.386	0.0023	400	400	0.829	0.10	OK	1.550	1.550	0.052	0.438	0.386	1.112	1.164	1.138
44	SMH-37	SMH-38	17.7	194	0.00	0.02	0.20	9.295	0.0026	400	400	0.829	0.10	OK	1.550	1.550	0.044	0.386	0.342	1.164	1.208	1.186
45	SMH-38	RWH-9	11.8	603	0.00	0.06	0.26	12.122	0.0034	400	400	0.829	0.10	OK	1.550	1.500	0.030	0.342	0.312	1.208	1.188	1.198
46	RWH-9	SMH-39	2.7	0	0.00	0.00	0.26	12.122	0.0034	400	400	0.829	0.10	OK	1.500	1.500	0.007	0.312	0.306	1.188	1.195	1.191
47	SMH-39	SMH-40	16.2	458	0.00	0.05	0.30	14.269	0.0040	400	400	0.829	0.10	OK	1.500	1.500	0.041	0.306	0.265	1.195	1.235	1.215
48	SMH-40	SMH-41	15.5	350	0.00	0.04	0.34	15.909	0.0044	400	400	0.829	0.10	OK	1.500	1.500	0.039	0.265	0.226	1.235	1.274	1.254
49	SMH-41	SMH-42	2.0	117	0.00	0.01	0.35	16.458	0.0046	400	400	0.829	0.10	OK	1.500	1.600	0.005	0.226	0.221	1.274	1.379	1.326
50	SMH-42	SMH-43	11.1	1128	0.00	0.11	0.46	21.745	0.0060	400	400	0.829	0.10	OK	1.600	1.600	0.028	0.221	0.194	1.379	1.407	1.393
51	SMH-43	SMH-44	15.5	250	0.00	0.03	0.49	22.917	0.0064	400	400	0.829	0.10	OK	1.600	1.600	0.039	0.194	0.155	1.407	1.445	1.426
52	SMH-44	RWH-8	15.7	541	0.00	0.05	0.54	25.453	0.0071	400	400	0.829	0.10	OK	1.600	1.600	0.039	0.155	0.116	1.445	1.485	1.465
53	RWH-8	SMH-45	2.0	0	0.00	0.00	0.54	25.453	0.0071	400	400	0.829	0.10	OK	1.600	1.600	0.005	0.116	0.111	1.485	1.490	1.487
54	SMH-45	SMH-46	15.3	188	0.00	0.02	0.56	26.334	0.0073	400	400	0.829	0.10	OK	1.600	1.600	0.038	0.111	0.072	1.490	1.528	1.509
55	SMH-46	SMH-47	12.3	159	0.00	0.02	0.58	27.080	0.0075	400	400	0.829	0.10	OK	1.600	1.600	0.031	0.072	0.041	1.528	1.559	1.543
56	SMH-47	SMH-48	14.3	132	0.00	0.01	0.59	27.698	0.0077	400	400	0.829	0.10	OK	1.600	1.600	0.036	0.041	0.006	1.559	1.594	1.576
57	SMH-48	SMH-49	11.4	278	0.00	0.03	0.62	29.002	0.0081	400	400	0.829	0.10	OK	1.600	1.500	0.029	0.006	-0.023	1.594	1.523	1.559
58	SMH-49	SMH-50	10.2	168	0.00	0.02	0.64	29.789	0.0083	400	400	0.829	0.10	OK	1.500	1.500	0.026	-0.023	-0.048	1.523	1.548	1.536
59	SMH-50	RWH-4	10.6	1412	0.00	0.14	0.78	36.408	0.0101	400	400	0.829	0.10	OK	1.500	1.500	0.027	-0.048	-0.075	1.548	1.575	1.562
60	RWH-4	SMH-51	2.3	0	0.00	0.00	0.78	36.408	0.0101	400	400	0.829	0.10	OK	1.500	1.500	0.006	-0.075	-0.081	1.575	1.581	1.578
61	SMH-51	SMH-52	17.5	161	0.00	0.02	0.79	37.163	0.0103	400	400	0.829	0.10	OK	1.500	1.500	0.044	-0.081	-0.124	1.581	1.624	1.602



62	SMH-52	SMH-53	14.4	2382	0.00	0.24	1.03	48.328	0.0134	400	400	0.829	0.10	OK	1.500	1.500	0.036	-4.474	-4.510	5.974	6.010	5.992	
63	SMH-53	SMH-54	18.2	267	0.00	0.03	1.06	49.580	0.0138	400	400	0.829	0.10	OK	1.500	1.250	0.046	-4.510	-4.556	6.010	5.806	5.908	
64	SMH-54	SMH-55	16.2	151	0.00	0.02	1.07	50.288	0.0140	400	400	0.829	0.10	OK	1.250	1.000	0.041	-4.556	-4.596	5.806	5.596	5.701	
65	SMH-55	SMH-56	21.9	126	0.00	0.01	1.09	50.878	0.0141	400	400	0.829	0.10	OK	1.000	0.750	0.055	-4.596	-4.651	5.596	5.401	5.499	
66	SMH-56	SMH-14	26.5	190	0.00	0.02	1.10	51.769	0.0144	400	400	0.829	0.10	OK	0.750	0.500	0.066	-4.651	-4.717	5.401	5.217	5.309	
67	SMH-57	SMH-58	13.3	4953	0.00	0.50	0.50	23.217	0.0064	400	400	0.829	0.10	OK	0.500	0.500	0.033	-0.400	-0.433	0.900	0.933	0.917	
68	SMH-58	RWH-3	9.6	169	0.00	0.02	0.51	24.009	0.0067	400	400	0.829	0.10	OK	0.500	0.500	0.024	-0.433	-0.457	0.933	0.957	0.945	
69	RWH-3	SMH-59	4.3	0	0.00	0.00	0.51	24.009	0.0067	400	400	0.829	0.10	OK	0.500	0.500	0.011	-0.457	-0.468	0.957	0.968	0.963	
70	SMH-59	SMH-60	13.7	115	0.00	0.01	0.52	24.548	0.0068	400	400	0.829	0.10	OK	0.500	0.500	0.034	-0.468	-0.502	0.968	1.002	0.985	
71	SMH-60	SMH-14	14.9	82	0.00	0.01	0.53	24.933	0.0069	400	400	0.829	0.10	OK	0.500	0.600	0.037	-0.502	-0.540	1.002	1.140	1.071	
72	SMH-14	CT	1.0	1175	0.00	0.12	0.65	30.441	0.0085	400	400	0.829	0.10	OK	0.600	0.600	0.003	-0.540	-0.542	1.140	1.142	1.141	
73	CT	To huda existing drain	10.0	0	0.00	0.00	0.65	30.441	0.0085	400	400	0.829	0.10	OK	0.600	0.600	0.025	-0.542	-0.567	1.142	1.167	1.155	

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**MATERIAL STATEMENT FOR STORM WATER DRAINAGE SYSTEM**

SL NO	NAME OF LINE		LENGTH	PIPE DIA	500MM
	FROM	TO	MTR	MM	MTR
1	SMH-01	SMH-02	13.9	400	
2	SMH-02	RWH-11	12.2	400	
3	RWH-11	SMH-03	5.1	400	
4	SMH-03	SMH-04	8.2	400	
5	SMH-04	SMH-05	4.2	400	
6	SMH-05	SMH-06	12.2	400	
7	SMH-06	SMH-07	20	400	
8	SMH-07	RWH-12	10.3	400	
9	RWH-12	CT	17	400	
10	SMH-8	RWH-1	12.9	400	
11	RWH-1	SMH-9	1.7	400	
12	SMH-9	SMH-10	10.8	400	
13	SMH-10	SMH-11	12.0	400	
14	SMH-11	SMH-12	17.7	400	
15	SMH-12	RWH-2	10.3	400	
16	RWH-2	SMH-13	3.1	400	
17	SMH-13	SMH-14	20.8	400	
18	SMH-15	SMH-16	16.3	400	
19	SMH-16	SMH-17	14.6	400	
20	SMH-17	RWH-5	9.6	400	
21	RWH-5	SMH-18	17.8	400	
22	SMH-18	SMH-19	13.2	400	
23	SMH-19	SMH-20	18.1	400	
24	SMH-21	SMH-22	7.9	400	
25	SMH-22	SMH-23	9.6	400	
26	SMH-23	SMH-24	16.5	400	
27	SMH-24	SMH-25	12.0	400	

28	SMH-25	RWH-6	10.2	400	
29	RWH-6	SMH-26	1.9	400	
30	SMH-26	SMH-27	24.0	400	
31	SMH-27	SMH-28	12.7	400	
32	SMH-28	SMH-29	12.4	400	
33	SMH-29	SMH-30	11.4	400	
34	SMH-30	RWH-7	9.8	400	
35	RWH-7	SMH-31	8.1	400	
36	SMH-31	SMH-20	18.3	400	
37	SMH-20	SMH-46	8.3	400	
38	SMH-32	SMH-33	14.4	400	
39	SMH-33	SMH-34	13.2	400	
40	SMH-34	SMH-35	15.0	400	
41	SMH-35	RWH-10	10.0	400	
42	RWH-10	SMH-36	12.3	400	
43	SMH-36	SMH-37	20.7	400	
44	SMH-37	SMH-38	17.7	400	
45	SMH-38	RWH-9	11.8	400	
46	RWH-9	SMH-39	2.7	400	
47	SMH-39	SMH-40	16.2	400	
48	SMH-40	SMH-41	15.5	400	
49	SMH-41	SMH-42	2.0	400	
50	SMH-42	SMH-43	11.1	400	
51	SMH-43	SMH-44	15.5	400	
52	SMH-44	RWH-8	15.7	400	
53	RWH-8	SMH-45	2.0	400	
54	SMH-45	SMH-46	15.3	400	
55	SMH-46	SMH-47	12.3	400	
56	SMH-47	SMH-48	14.3	400	
57	SMH-48	SMH-49	11.4	400	
58	SMH-49	SMH-50	10.2	400	
59	SMH-50	RWH-4	10.6	400	
60	RWH-4	SMH-51	2.3	400	
61	SMH-51	SMH-52	17.5	400	
62	SMH-52	SMH-53	14.4	400	
63	SMH-53	SMH-54	18.2	400	
64	SMH-54	SMH-55	16.2	400	
65	SMH-55	SMH-56	21.9	400	

66	SMH-56	SMH-14	26.5	400	
67	SMH-57	SMH-58	13.3	400	
68	SMH-58	RWH-3	9.6	400	
69	RWH-3	SMH-59	4.3	400	
70	SMH-59	SMH-60	13.7	400	
71	SMH-60	SMH-14	14.9	400	
72	SMH-14	CT	1.0	400	
73	CT	To huda existing drain	10.0	400	
<b>Total</b>			<b>1151</b>		
<b>Say (m)</b>			<b>1150</b>		

**Sub-Work No. VI****Maintenance Charges & Re-surfacing of Roads**

<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount in Rs.</b>
1	Providing of maintenance charges for water supply , storm water drainage, sewerage, Road, Street lighting, Horticulture etc. complete in all aspect, including Operational and establishment charges as per HUDA norms for 10 years completion. <b>Already Approved</b>	Acre	9.53	8,00,000	76,24,000
2	Provision for regulating of Road after 1st 5 year 6200 sqm @ Rs 660 sqm. <b>Already Approved</b>				40,92,000
3	Provision for regulating of Road after 2nd 5 year of site 6200 sqm @ Rs 852 sqm. <b>Already Approved</b>				51,15,000
	<b>Total</b>				<b>168.31</b>
	Add 3% contingencies & PH charges				5.05
	Total				173.36
	Add 49% Dept. Charges, Price Escalation Unforeseen, charge				84.95
	Total Cost				<b>258.31</b>

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

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		Amount (Rs. in lacs)
1	Providing street lighting on internal roads as per standard specification in 9.53 acre area @ Rs. 2,50,000/- per acre. <b>Already Approved</b>	= 23.82
	<b>Total</b>	= 23.82
	Add 3% contingencies & PH charges	= 0.71
	Total	= 24.53
	Add 49% Dept. Charges, Price Escalation Unforeseen, charge	12.02
	Total Cost	= 36.56

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

Sub Work No.VI

Sub-Head No. 05

Horticulture

PROJECT:- PROPOSED GROUP HOUSING SITE MEASURING 9.53 ACRES IN RESIDENTIAL PLOTTED COLONY MEASURING 177.86 ACRES (LICENSE NO. 10 OF 2009 DATED DT.21.05.2009, LICENSE NO. 113 OF 2011 DATED 22.12.2011 & LICENSE NO. 117 OF 2022 DATED 23.08.2022) IN SECTOR 65 & 62, GURUGRAM BEING DEVELOPED BY ACTIVE PROMOTERS AND OTHERS IN COLLABORATION WITH EMAAR INDIA LTD (FORMERLY KNOWN AS EMAAR MGF LAND LTD)

Sl.No.	Description	Unit	Qty.	Rate	Amount in Lacs
1	<b>Development of Lawn Area</b>				
a)	Trenching the ordinary soil up to depth of 60 cm. Including removal and packing of serviceable material and disposing at a lead of 50 m/ and making up the trenched area to proper level by filling with earth mixed with manure including cost of imported earth and manure.				
b)	Rough dressing of trenched area.				
c)	Grassing with "doob grass" including watering and maintenance of lawns free from weeds and fit for moving rows 7.50 cm in either direction including for hedges and grill and barbed wire fencing around park and green belts (as per HUDA Norms) Area 1.7 Acres approx @Rs. 1.5 lac per acre.	Acre	1.7		2.15
2	<b>Planting of trees with tree guards on Roads at 12m intervals</b>				
	Length of road=410 M No. of trees@ m c/c = 410/4 = 102.5 Nos. SAY= 105 Nos. Cost of the tree Excavation Rs. 60- Manure Rs. 90/- Tree plants Rs. 150/- Tree guards Rs. 1500/- Total 1800 105 Nos. @Rs. 1800/- each	Nos	105	1800	1.89
	<b>Total</b>				<b>4.04</b>
	Add 3 % contingencies & PE charges.				0.12
	Total				4.16
	Add 49 % Departmental charges, Price escalation,unforseen,Admin. Charges.				2.04
	Total				6.20
	<b>C/O. to final abstract of cost (say in Lacs)</b>				<b>6.20</b>

**Sub Work No.VII**

Sub-Head No. 06

Roads and Footpaths

**PROJECT:- PROPOSED GROUP HOUSING SITE MEASURING 9.53 ACRES IN RESIDENTIAL PLOTTED COLONY MEASURING 177.86 ACRES (LICENSE NO. 10 OF 2009 DATED DT.21.05.2009, LICENSE NO. 113 OF 2011 DATED 22.12.2011 & LICENSE NO. 117 OF 2022 DATED 23.08.2022) IN SECTOR 65 & 62, GURUGRAM BEING DEVELOPED BY ACTIVE PROMOTERS AND OTHERS IN COLLABORATION WITH EMAAR INDIA LTD(FORMERLY KNOWN AS EMAAR MGF LAND LTD).**

Sl.No.	Description	Unit	Qty.	Rate	Amount in Lacs
1	<b>Site Clearance</b> Clearing and grubbing road land including uprooting rank, vegetation, grass, bushes, shrubs, saplings and trees girth upto 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials to be used or auctioned, upto a lead of 1000mm including removal and disposal of top soil not exceeding 150 mm thickness by manual means in areas of light jungle as per drawings and Clause 201 of Morth Specifications.	L.S			0.60
2	<b>Earth Works</b>				
2.1	Provision for leveling + earth filling as per site condition approximate	Acre		1.75 1.7 Lacs/Acre	2.97
3	<b>Provision for</b>				
3.1	200mm GBM				
3.2	250 mm WBM (stone aggregate)				
3.3	50 mm DBM				
3.4	30 mm BC				
	Total	Sqm	2500	1500	37.50
4	<b>Miscellaneous Items</b>				
4.1	Construction of cement concrete Kerb and Meter Channels as per specifications	m	425	600	2.55
4.2	Construction of footpath as per specifications for approach to each block	L.S.			5.00
4.3	Provision for metaling of commercial	L.S.			2.00
4.4	Providing and fixing guide map at selected locations	L.S.			1.00
4.5	Provision for plot indicators	L.S.			1.10
4.6	Provision for demarcating burgies	L.S.			0.50
4.7	Provision for traffic arrangement	L.S.			2.00
4.8	Provision for carriage of material	L.S.			5.00
	<b>Total</b>				<b>60.22</b>
	Add 3 % contingencies & PE charges.				1.81
	Total				62.03
	Add 49 % Departmental charges, Price escalation,unforseen,Admin. Charges.				30.39
	Grand Total				92.42
	<b>C/O. to final abstract of cost (say in Lacs)</b>				<b>92.42</b>