PROJECT REPORT / ESTIMATES FOR PROVIDING EXTERNAL SERVICES e.g. WATER SUPPLY, FIRE, SEWERAGE & STORM WATER DRAINAGE ETC. IN RESPECT OF PROPOSED BUILDING PLANS FOR HOUSING GROUP COLONY MEASURING 10.744 ACRES LAND (LICENCE NO. 4 OF 2013 DATED 18-02-2013 IN SECTOR 112, GURGAON, MANESAR, URBAN COMPLEX, GURGAON, HARYANA, BEING DEVELOPED BY SH. AJIT SINGH AND OTHERS IN COLLABORATION WITH EMAAR INDIA LTD.

Gurgaon is located at 28°28'N 77°02'E28.47°N 77.03°E/28.47; 77.03. It has an average elevation of 220 metres (721 ft) Gurgaon district, comprising four blocks Pataudi, Sohna, Gurgaon and Farrukhnagar, was created on 15 August, 1979.On its north, it is bounded by the district of Rohtak and the Union Territory of Delhi. Faridabad district lies to its east. On its south, the district shares boundaries with the district of Mewat. To its west lies the district of Rewari and the State of Rajasthan.Gurgaon is situated between the Himalayas and Aravalis mountain ranges. It is surrounded on three sides by Haryana and to the east, across the river Yamuna by Uttar Pradesh. Its greatest length is around 13 miles and the greatest breadth is 17 miles. Delhi's altitude ranges between 213 to 305 meters above sea level.

PROPOSED BUILDING PLANS FOR HOUSING GROUP COLONY MEASURING 10.744 ACRES LAND (LICENCE NO. 4 OF 2013 DATED 18-02-2013) FOR PHASE-1 is a residential proposed between **SECTOR 112, GURGAON, MANESAR, URBAN COMPLEX, GURGAON, HARYANA** for development by **EMAAR INDIA LIMITED (Formerly known as EMAAR MGF LAND LIMITED)**

1 Water Supply

The source of water supply shall be HUDA water supply connection. It has been proposed to construct undergorund tanks of capacity as per attached detaileds for domestic and other purpose. The underground tanks will be filled up from the riser and then pumped to the overhead water tanks of each tower.

i.) Source

The source of water supply in this area is tubewells as the underground water is sweet and fit for human consumption, moreover, the water is available at reasonable depth.The average yield of tubewell with 60'–80' strainer will be about 20000 lph per hour. The recharging of under ground water table in this belt is stated to be good. However still we shall resort to rain water harvesting system to keep up the recharging system. The number of tubewells required for the above area has been worked out to 02 Nos and the tubewells will be bored in tune with growth of demand to avoid absolence of the tubewells.

ii.) Design

The scheme has been designed for population of 544 persons in 1.846 Acre. The rate of water supply per head per day has been taken assumed as 172.5 litres per head per day as per HUDA norms. In addition to above necessary provision of water for Community building, Commercial building, parks etc. have been taken into account for calculating the maximum number of tubewell water required.

iii.) Pumping Equipments

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

iv.) Under Ground Storage

Underground storage tank provision has been made, which caters for the present and a lot of future requirement as well as fire fighting requirement. The water for domestic water compartment shall over flow from the fire compartment so that the water in the fire compartment also remains fresh.

v.) Boosting Station

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

vi.) Distribution System

The distribution systems for this development has been designed to supply @ 172.5 Litres per head per day @ 3 times the average rate of flow on 'Hazen Willima' formula with C-100. Necessary provision for laying D.I. line (under ground line above 80 mm dia) /uPVC SCH-80 (below 100 mm dia under ground) pipes only conforming to relevant IS standards along with valves and specials has been made in this estimate.

vii.) Rising Mains

Rising mains from HUDA water main on sector road to water works have also been designed and provision for D.I. pipe line (dia as/design) has been made in this estimate.

2 Sewerage

This scheme is designed for sewer connecting to the proposed sewage treatment plant. The sewerage system has been marked on the respective plans.

The sewer lines have been designed for 3 times average DWR in relation to the water supply demand assuming that 80% fo the domestic water supply shall find its way into the proposed sewer SW pipe sewers have been proposed designed to run half full. The sewers have been designed on 0.76 mtr. per second velocity ie. Self cleansing velocity. Necessary provisions for laying CI/ uPVC pipes etc. has been made in this estimate.

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

3 Storm Water Drainage

The storm water drain is being designed to carry 45 mm rain fall per hour. Also suitable provisions are contemplated in our scheme to ensure better recharging of under ground water table in the area. DWC/RCC NP_3 pipe drain with minimum 400 mm dia is proposed in this area.

4 Roads

Cost of road has been taken in the estimate.

5 Street Lighting

Provision for street lighting on surrounding area has been made.

5 Horticulture

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

7 Specifications :

The work will be carried out in accordance with the standard specifications of PHE as laid down by the HUDA/Haryana Government.

8 Rates

Estimates for providing services in this site has been prepared on the recent HUDA rates.

9 Cost

The total cost of development in this Project including various PH & B & R services works out to **Rs. 366.14 lacs** which includes 3% contingency and PE charges and 49% departmental charges also.

The cost per gross acre for this phase works out to **Rs. 198.343 Lacs/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.

SH. AJIT SINGH AND OTHER IN COLLABORATION WITH EMAAR INDIA LTD.

Authorised Signatory

PROPOSED BUILDING PLANS OF GROUP HOUSING COLONY FOR PHASE-1 IN SECTOR 112, GURGAON, MANESAR, URBAN COMPLEX, GURGAON, HARYANA

DESIGN CALCULATION

1	Total No. of Main units			88	Nos.
	Total No. of Service personnel			20	Nos.
	Total No. of EWS units			16	Nos.
	Population per Units (general)			5	persons
	Population per Units (Service personnel)			2	persons
	Population per Units (EWS)			4	persons
	Total population (general)			440	persons
	Total population (Service personnel)			40	persons
	Total population (EWS)			64	persons
	Threrfore, Total Population			544	persons
		SAY		**544**	**persons**
	Water requirement for Units per LPCD	@	172.50	Lpcd.	
			Domestic @ 65 %	**Flushing @ 35 %**	
	Water requirement for Units	@	113.00	59.50	Lpd.
			61472	32368	Lpd.
		or	**61.47**	**32.37**	**Kld.**
2	**VISITORS @ 10%**		55.00	persons	
	Water requirement per person	@	15.00	Lpd.	
			Domestic	**Flushing**	
	Water requirement	@	5.00	10.00	Lpd.
			275	550	Lpd.
		or	**0.28**	**0.55**	**Kld.**
3	**COMMON FACILITY**	200.00	sq.m		
		@		1.4	sq.m/per
	Population	143			
	Staff @ 10%	14	-	-	Person
	Visitors @ 90%	129	-	-	Person
	Per Person Water Requirement		**Domestic**	**Flushing**	
	Staff	45.00	25.00	20.00	Lpd.
	Visitors	15.00	5.00	10.00	Lpd.
	Daily Water Requirement				
	Staff	642.86	357.14	285.71	Lpd.
	Visitors	1928.57	642.86	1285.71	Lpd.
			1.00	**1.57**	**Kld.**
	Total Domestic Water Requirement For UGT (1 To 3)	**Total**	**62.75**	**34.49**	**Kld.**
4	**GREEN AREA (1667.53 sqm or 0.412 Acres)**	0.412			
	Daily water requirement @ 25000 lit/Acre	@	-	25000	Ltr./Acre
			-	10300.00	Lpd.
			0.00	**10.30**	**Kld.**

		Total	**0.00**	**10.30**	**Kld.**
5	**TOTAL DAILY REQUIREMENT**				
	a) For Domestic +Flushing use (1 To 3)		62.75	34.49	Kld.
	c) Under Road+ Parks (4)		0.00	10.30	Kld.
	Total Daily Requirement		62.75	44.79	Kld.
		SAY	**70.00**	**50.00**	**Kld.**
6	**TUBE WELL FOR UGT**				
	Assuming working hours of tubewells			8	Hours
	Assuming discharge/hour of each tubewell			20	KL/Hours
	Total domestic demand			**62.75**	**Kld.**
	No. of tubewells required	62.75 /20/8		0.39	
		Say		**1.00**	**Nos.**
7	**PUMPING MACHINERY FOR TUBE WELL**				
	Gross working load		=	45.00	Mtr.
	Average fall in SL		=	3.05	Mtr.
	Depression head		=	6.10	Mtr.
	Friction loss in main		=	2.50	Mtr.
			=	56.65	Mtr.
		Say	=	60.00	Mtr.
	BHP = 20000x60x1/60/60/75/0.6		=	7.41	HP
	With 60% efficiency	**Say**		**8.00**	**HP**
8	**UNDER GROUND TANK**				
	Daily requirement for domestic use		=	62.75	Kld.
	Capacity of under ground tank				
	24 hours storage	62.75 x 24 / 24		62.75	Kld.
		Say	**=**	**100.00**	**Kld.**
	Fire Tank Capacity As/NBC-2016		=	150.00	KLD
		Say	=	**150.00**	**KL**
		TOTAL		**250.00**	**KL**

It is proposed to provide under ground tank of capacity **250 KL** which also includes **150 KL** capacity for fire fighting.

Tanks will have four compartments, two for fire, one for raw and the other one for domestic use. The water first enters the raw compartment, then over flows to the fire compartment, then over flows to the domestic compartment so that the water in the fire compartment shall remain fresh.

It is proposed to provide the under ground tank of following capacity :

Capacity of Fire Water Tank-01	**75.00 Kl.**
Capacity of Fire Water Tank-02	**75.00 Kl.**
Capacity of Raw Water Tank	**50.00 Kld.**
Capacity of Domestic Water Tank	**50.00 Kld.**
	UGT

9 BOOSTING MACHINERY

UG. TANK

Daily requirement for domestic use		=	62.75	Kld.
Assuming 6 hours pumping	1 pumps (with one standby)			
Discharge/hour	62.75 / 6 / 1	=	10.46	KL/Hours
Head of pump				
i) Suction lifts		=	0.0	Mtr.
ii) Friction loss in M<main & specials		=	2.0	Mtr.
iii) Clear head		=	56.0	Mtr.
iv) Residual head		=	5.0	Mtr.
		=	63.0	Mtr.
BHP of motor			4.07	HP
		=	5.00	**HP**

10 PUMPS FOR FIRE PROTECTION

	Pump Description	Location	Nos.	Discharge	Head	HP
i)	**Diesel Driven Pump**	Pump Room	**1**	**2280**	**130.00**	**110**
ii)	**Hydrant Pump**	Pump Room	**1**	**2280**	**130.00**	**110**
iii)	**Jockey Pump**	Pump Room	**1**	**180**	**130.00**	**10**

Capacity of Gen Set	Nos.	HP			
Domestic Water Transfer Pumps	1	5.0	=	5	HP
Tubewell	1	8.0	=	8	HP
Fire Pump (Jockey)	1	10.0	=	10	HP
Lighting			=	25	HP
				48	HP
or	48 x0.746x1.50			53.71	KVA
	Say			**60.00**	**KVA**

11 Sewage Treatment Plant Capacity (STP.)

Gross Domestic+Flushing water requirment / day	97.24	Kld.
Sewage flow 80% of total load	77.79	Kld.
Proposed STP. Capacity	**80.00**	**Kld.**
	STP	

Estimate for Providing in Internal Development works

SH. AJIT SINGH AND OTHER IN COLLABORATION WITH EMAAR INDIA LTD.

Description	Amount (Lacs.)
Sub Work - I Water Supply System	**132.58**
Sub Work - II Sewerage System	**46.72**
Sub Work - III Storm Water Drainage System	**39.10**
Sub Work - IV Roads & Footpath	**79.28**
Sub Work - V Street Lighting	**4.25**
Sub Work - VI - Horticulture	**6.46**
Sub Work - VII - Maintenance of Services for 10 years including resurfacing of roads after 1st 5 years & II phase i.e. 10 years of maintenance (as per HUDA norms)	**57.76**
Total	**366.14**

(RUPEES THREE CRORES SIXTY SIX LACS FOURTEEN THOUSAND ONLY)

SH. AJIT SINGH AND OTHER IN COLLABORATION WITH EMAAR INDIA LTD.

Authorized Signatory

FINAL ABSTRACT OF REVISED COST

Description		**Amount (Lacs.)**
Sub Head - (I) Head Works		21.25
Sub Head - (II) Pumping Machinery		32.40
Sub Head - (III) Distribution System		15.09
Sub Head - (IV) Irrigation Scheme		4.57
Sub Head - (V) Fire Scheme		13.08
	Total	**86.39**
Add 3% Contingencies		2.59
	Total	**88.98**
Add 49% Departmental Charges		43.60
	Grand Total	**132.58**
(CO to final abstract of cost)	**Say**	**132.58**

Sub Work I **Water Supply**

Sub Head No. I **Head Works**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount Rs. (lacs)
1	Boring and installing 510 mm i/d tubewells with reverse/direct rotary rig complete with pipe strainer to a depth of about 80 m. complete.	Nos.	1	500000.00	5.00
2	Constructing pump chambers as per standard design of PWD PH/HUDA of size 1.50x1.50 m.	Nos.	1	100000.00	1.00
3	Construction of boosting chambers of suitable size along with under ground tank & pumping machinery and generating set etc. complete in all respects.				
	Details of boosting station				
i)	construction of boosting chambers for UGT	Nos.	1	100000.00	1.00
ii)	construction of UG tank-1&2 (Dom.+ Fire)	KL	250	4500.00	11.25
4	Provision for carriage of material and other unforeseen items.	LS	-	-	1.50
5	Provision for facilites staff for Maintenance	LS	-	-	1.50
	(C.O. to abstract of cost of Sub-work No.I)				**21.25 Lacs**
				Say	**21.25 Lacs**

Sub Work I **Water Supply**

Sub Head No. II **Pumping Machinery**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (in Lakhs)
1	Providing and installing electricity driven electro or s pumping set capable of delivering about 20 KL water per hour against a total head of 60 M complete with motor and other accessories.	Nos.	1	100000.00	1.00
2	Providing & installing electricity driven pumping set capable of delivering 180 LPM of water against a total head of 63 m complete with motor and other accessories (For Domestic - 5 HP).	Nos.	2	90000.00	1.80
3	Provision for diesel engine generator set each for standby Arrangements for booster pump complete with gear haed arrangements of following capacities.				
i)	60 KVA	Nos.	1	600000.00	6.00
4	Providing & installing pumping set of following capacities for fire protection:				
i)	180 LPM @ 90 M Head (10 HP)	Nos.	1	110000.00	1.10
ii)	2280 LPM @ 90 M Head (110 HP) Hydrant	Nos.	1	550000.00	5.50
iii)	2280 LPM @ 90 M Head (DG Pump)	Nos.	1	850000.00	8.50
5	Provision for diesel engine genset stand bye arrangements for Tubewells.	Nos.	1	100000.00	1.00
6	Provision for cheap pressure type chlorination plant complete.	Nos.	1	100000.00	1.00
7	Provision for making foundations & erection of pumping machinery.	LS	-	-	2.00
8	Provision for pipes, valves & specials inside the pump chamber.	LS	-	-	1.50
9	Provision for electric services connection including electric fittings for tubewells chambers complete including cost of transformer.	LS	-	-	1.50
10	Provision for carriage for materials and other unforeseen items.	LS	-	-	1.50
	(C.O. to abstract of cost of Sub-work No.I)			**Total**	**32.40**
				Say	**32.40**

Sub Work I — **Water Supply**
Sub Head No. III — **Distribution System/Rising Main**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, laying, jointing & testing D.I. pipes including cost of excavation complete as per ISI marked.				
i)	100 mm dia	M	12	1460.00	17520.00
2	Providing, laying, jointing & testing uPVC SCH-80 (food grade) pipes including cost of excavation (under ground / basement ceiling level) complete as per ISI marked.				
i)	25 mm dia nominal bore (Plant room to ews qty is also added for flushing)	M	316	270.00	85320.00
ii)	32 mm dia nominal bore (Plant room to ews qty is also ad	M	316	370.00	116920.00
iii)	40 mm dia nominal bore	M	213	380.00	80940.00
iv)	50 mm dia nominal bore	M	233	520.00	121160.00
v)	80 mm dia nominal bore	M	30	1060.00	31800.00
3	Providing, fixing & Testing valves (ball/butterfly) including cost of complete in all respects.				
i)	25 mm i/d ball valve	Nos.	1	950.00	950.00
ii)	32 mm i/d ball valve	Nos.	2	1640.00	3280.00
iii)	40 mm i/d ball valve	Nos.	2	2450.00	4900.00
iv)	50 mm i/d butterfly valve	Nos.	2	4450.00	8900.00
v)	80 mm i/d butterfly valve	Nos.	1	6060.00	6060.00
vi)	100 mm i/d butterfly valve	Nos.	4	7810.00	31240.00
4	Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.				
i)	50 mm i/d	Nos.	0	10000.00	0.00
ii)	100 mm i/d	Nos.	2	14000.00	28000.00
5	Providing and fixing air valves and scour valves including cost of complete in all respects.	Nos.	4	10000.00	40000.00
6	Providing and fixing indicating plates for valves.	Nos.	17	1000.00	17000.00
7	Provision for carriage of material	LS	-	-	150000.00
8	Provision for cutting the roads and making to its original conditions.	LS	-	-	200000.00
9	Making water supply connection.	LS	-	-	200000.00
10	Provision for rising main from HUDA water supply line to UG Tank.				
i)	100 mm i/d	M	250	1460.00	365000.00
	(C.O. to abstract of cost of Sub-work No.I)			**Total**	**1508990.00**
				Say	**15.09 Lacs**

Sub Work I **Water Supply**

Sub Head No. IV **Irrigation**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, laying, jointing & testing uPVC pipe line confirming to IS 4985 including cost of Excavation etc. complete in all respect.				
i)	25 OD	M	60	220.00	13200.00
ii)	90 OD	M	371	750.00	278250.00
2	Providing and fixing 20mm dia Irrigation hydrant valve complete in all respect.	Nos.	10	1200.00	12000.00
3	Providing, fixing & Testing valves (ball/butterfly) including cost of complete in all respects.				
i)	25 mm i/d ball valve	Nos.	10	950.00	9500.00
ii)	80 mm i/d butterfly valve	Nos.	1	6060.00	6060.00
4	Providing and fixing air valves and scour valves including cost of complete in all respects.	Nos.	3	4500.00	13500.00
5	Providing and fixing indicating plates for butterfly valve, NRV, air valve & garden hydrant etc.	Nos.	24	1000.00	24000.00
6	Provision for carriage of materials etc. and other unforsean charges.	LS	-	-	50000.00
7	Provision for cutting of roads & making good to its in original condition.	LS	-	-	50000.00
				Total	**456510.00**
				Say	**4.57 Lacs**

Sub Work I

Sub Head No. V **Fire Scheme**

S. No.	Description	Unit	Qty	Rate	Amount (Rs.)
1	Providing, laying, jointing & testing M.S. pipes for fire ring main including cost of Fittings & excavation complete (as per ISI marked) in all respect.				
a)	80 mm dia	M	60	1000.00	60000.00
b)	150 mm dia	M	486	1850.00	899100.00
2	Providing and fixing External Fire Hydrants complete with masonary chambers.	Nos.	4	15000.00	60000.00
3	Providing, fixing & Testing butter fly valve including cost of complete in all respects.				
a)	80 mm dia	Nos.	4	10000.00	40000.00
b)	150 mm dia	Nos.	4	20000.00	80000.00
4	Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.				
i)	80 mm i/d	Nos.	4	5000.00	20000.00
5	Providing and fixing Fire Brigade connection.				
i)	4 way inlet connection.	Nos.	2	15000.00	30000.00
ii)	2 way with drawl connection.	Nos.	1	10000.00	10000.00
5	Provision for cutting of roads and carriage of materials etc. and other unforsean charges	LS	-	-	40000.00
6	Providing and fixing indicating plates for butterfly valve, NRV, fire brigade & fire hydrant etc.	Nos.	19	1000.00	19000.00
7	Provision for carriage of material	LS	-	-	50000.00
			Total		**1308100.00**
			Say		**13.08 Lacs**

Sub Work II (Part-1) **Sewerage Scheme**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, lowering, jointing, cutting SW/DWC/RCC NP_3 pipes and specials into trenches including cost of excavation, bed concrete lot of manholes complete.				
i)	**200 mm i/d**				
a)	Average depth 0.0 m to 1.5 m	M	27	1050.00	28350.00
b)	Average depth 1.5 m to 4.5 m	M	119	1200.00	142800.00
ii)	**250 mm i/d**				
a)	Average depth 0.0 m to 1.5 m	M	0	1200.00	0.00
b)	Average depth 1.5 m to 4.5 m	M	0	1400.00	0.00
2	Provision for lighting, watching and temporary diversion of traffic	LS	-	-	100000.00
3	Provision for cutting of roads and carriage of materials etc. and other unforsean charges.	LS	-	-	100000.00
4	Provision for connection with HUDA.	LS	-	-	100000.00
5	Cost of **80 Kld** Sewerage Treatment Plant (**Note:** The STP cost is inclusive of civil & electromechanical part including flushing water transfer pumps)	LS	-	-	2500000.00
6	Provision for CI / DI pipe from STP. To Huda Main Line.				
i)	100 mm dia pipe.	M	50	1460.00	73000.00
					3044150.00
	Add 3% contingencies				91324.5
					3135474.50
	Add 49% Deptt. Charges				1536382.505
				Total	**4671857.01**
	(C.O. to abstract of cost of Sub-work No. 1)			**Say**	**46.72 Lacs**

Sub Work - III **Storm Water Drain**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing, lowering, jointing, cutting DWC/RCC NP_3 pipes and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.				
i)	**400 mm i/d**				
a)	Average depth upto 1.5 m	M	279	2500.00	697500.00
b)	Average depth 1.5 m to 4.5 m	M	18	2600.00	46800.00
2	Provision for Road Gully & Drain.	LS	-	-	250000.00
3	Provision for cutting of roads and carriage of materials etc. and other unforseen items	LS	-	-	250000.00
4	Provision for disposal arrangements Recharge Pit.	Nos	2	350000.00	700000.00
5	Provision for lighting, watching and temporary diversion of traffic	LS	-	-	100000.00
6	Provision of uPVC SCH-80 pipe for lifting water (overflow pumping) from drainage sumps (located at site level) to outside HUDA storm water line.				
i)	150mm dia nominal bore	M	170	2960.00	503200.00
					2547500.00
	Add 3% contingencies				76425.00
					2623925.00
	Add 49% Deptt. Charges				1285723.25
				Total	**3909648.25**
	(C.O. to abstract of cost of Sub-work No. 1			**SAY**	**39.10 Lacs**

Sub Work IV **Road Work**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Provision for leveling & earth filling as per site condition 1.846 acre @ 175000/acre	Acres	1.8460	175000	323050.00
2	Construction of road by:- i) Providing GSB 200 mm thick. ii) 250 mm thick W.M.M. stone aggregate. iii) 50 mm thick BDM iv) 30 mm thick BC complete in all respect.	Sq. mtr.	2287.0	1500	3430500.00
3	Provision for making approach and pavement to building block by providing concrete pavement or tiles. Etc.	Sq. mtr.	344.00	650	223600.00
4	Provision for parking arrangement @ 1500 / sqm	Sq. mtr.	139.0	1500	208500.00
5	Provision for kerb stone with complete specification.	mtr.	800.0	600	480000.00
6	Provision for Carriage of material	LS.		200000.00	200000.00
7	Provision for traffic lighting and guide map/ indicators	LS.		300000.00	300000.00
				Total	**5165650.00**
	Add 3% contingencies				154969.50
					5320619.50
				Total	53.21 Lacs
	Add 49 % department charges				26.07 Lacs
				SAY	**79.28 Lacs**

Sub Work V **Street Lighting**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Providing street lighting on internal roads as per standard specifications of HVPNL with CFL	per acre	1.8460	150000.00	**276900.00**
	Add 3% contingencies				8307.00
				Total	**285207.00**
	Add 49% Deptt. Charges				139751.43
				Total	**424958.00**
				SAY	**4.25 Lacs**

Sub Work VI **Horticulture**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Development of lawn area a) Trenching the ordinary soil upto depth of 60 cm.Including removal & packing of serviceable material & disposing at a lead of 50 M and making up the trenched area to prope level by filling with earth mixed with manure befor & after flodding trench with water including cost of imported earth & manure.				
	b) Rough dressing of trenched area.				
	c) Grassing including watering & maintenance of lawns free from weeds & fit for mowing in rows including hedges, shrubs & green belts (as per HUDA Norms)				
	1.846 acres @ Rs. 1.5 lacs.	per acre	1.8460	150000.00	2,76,900
	80 trees @ Rs. 1800/- each				1,44,000
					420900.00
	Add 3% contingency charges				**12627.00**
				Total	**433527.00**
	Add 49% Deptt. Charges				**212428.23**
				Total	**645955.23**
				Say	**6.46 Lacs**

Sub Work VII — **Maintenance Charges & Resurfacing of Roads**

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Provision for maintenance charges for water supply, sewerage,storm water drainage, roads, street light, horticulture etc. complete including operation & establishments charges as per HUDA norms after completion & resurfacing of roads after 10 years or 1st phase.				
	1.846 acres @ 8 lacs per acre	per acre	1.8460	800000.00	1476800.00
2	Provision for resurfacing & strengthening of road (with 50mm thick BM + 50 mm thick BC) after five years of Ist phase @ 450/- per sqm	Sq. mtr.	2287.0	450	1029150.00
3	Provision for resurfacing & strengthening of road (with 50mm thick BM + 50 mm thick BC) after ten years of 2nd phase @ 550/- per sqm	Sq. mtr.	2287.0	550	1257850.00
				Total	**3763800.00**
	Add 3% contingency & PE charges				112914.00
				Total	**3876714.00**
	Add 49% Departmetal charges				1899589.86
				Total	**5776303.86**
			say		**57.76 Lacs**