

LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

FINAL ABSTRACT OF COST		3.700
S.NO	DESCRIPTIONS	AMOUNT (RS.)
PART - A		
SUB WORK NO. I	WATER SUPPLY & FIRE FIGHTING SCHEME	133.00 142.20
		124.04 lacs
SUB WORK NO. II	SEWERAGE SYSTEM	13.19 44.00
		40.51
SUB WORK NO. III	STORM WATER DRAINAGE	18.95 23.20
		75.96
TOTAL OF PART A		165.14 209.40
PART - B		
SUB WORK NO. IV	ROAD & FOOT PATHS	44.84
		10.49
SUB WORK NO. V	PLANTATION & ROAD SIDE TREES	6.42
TOTAL OF PART B		51.25
PART - C		
SUB WORK NO. VI	STREET LIGHTING	6.00
		13.93
SUB WORK NO. VII	MTC. CHARGES INCL RESURFACING OF ROADS AFTER 1st 5 YEARS AND 2nd YEAR OF MTC (AS PER HUDA NORMS)	67.00
		135.87
TOTAL OF PART C		73.00
TOTAL OF A+B+C		289.40 333.65
TOTAL		289.40 333.65
SAY IN LAKHS		289.00 333.65
Cost per Acre = $\frac{548.60 \text{ lacs}}{1.63125} = 336.35$		333.65 336.35
Deviation of Cost		78.108108 92.43
Say		78.11 92.45
		Lakhs Per Acre

ARCHITECT
DHARAMVIR SINGH
CN/2012/56805

Executive Engineer
HSVP Division No. VI
Gurugram

For ETERNAL HOUSING INFRA LLP

Authorised Signatory

Checked subject to Comments
In forwarding letter No. 6908
Dt. 05/01/2024 and notes
attached with the estimate

Executive Engineer (M)
for Chief Engineer-I
HSVP, Panchkula

Director
Town & Country Planning
Haryana, Chandigarh

Superintending Engineer,
HSVP Circle, Gurugram



हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI
VIKAS PRADHIKARAN

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Address: C-3, HSVP , HQ Sector-6
Panchkula

CE-I No. 6808
Dated: 08/01/2024
Annexure-A

SUB:- Request for approval of service plan estimate for setting up of a Commercial Plotted Colony over an area measuring 1.43125 acres of licence no. 203 of 2023 in continuation of licence no. 47 of 2023 dated 02.03.2023, area measuring 2.20 acres in the revenue estate of Village Harsaru, Sector-37D, Gurugram-M/s Eternal Housing Infra LLP.

Technical note and comments:-

1. All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
2. The correctness of the levels will be the sole, responsibility of the colonizer for the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution.
3. The material to be used shall the same specifications as are being adopted by HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.
4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HSVP. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HSVP from time to time.
5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ HSVP. All link connections with the State Government/ HSVP system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision according to EDC deposited.
6. Structural design & drawings of all the structures, such as pump chamber, boosting chamber, RCC OHSR, underground tanks, quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber for Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications, colonizer himself will be responsible for structural stability of all structures.
7. Potability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested.
8. Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.

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SUB WORK No. 1	Water Supply & Fire Fighting scheme	
	Head works	
Sub Head No. 01	Source of Temporary arrangement (Borewell)	62.85 /as 28.49 30.42
Sub Head No. 02	Water Supply & Fire Fighting Pumping Machinery	24.40 /as 19.95
Sub Head No. 03	Water distribution lines Dom. + Rising main	19.56 22.98
Sub Head No. 04	Rising Main From HUDA	53.71 61.38
Sub Head No. 05	Water supply Irrigation System	17.23 /as 7.43
TOTAL		124.04 /as 132.57 142.16
SAY (IN LAKHS)		133.00 142.20

C.O. to final abstract of cost

ARCHITECT
DHARAMVIR SINGH
CA/2012/56805

For ETERNAL HOUSING INFRA LLP
Authorised Signatory

COLD WATER DESIGN SHEET FOR- SECTOR-37D, GURGAON, HARYANA.

DESIGN CALCULATION FOR DOMESTIC WATER SYSTEM

S. NO.	Reference line		NO OF UNIT			Popul. (Total No of Persons)	Total Requirement (In LPD)	Total Water Requirement (In LPM)	DIA. (In MM)	Velocity (m/sec)	Length of Line (In Mtr)	(S) Slope of pipe (In m/m)	Head Loss for line Length (In Mtr)	Fitting Loss @ 10% of pipe length (In Mtr)	Total Head Loss (In Mtr)	CUMMULATIVE	Ground Level	Air Release Valve
	FROM	TO	SELF	PREVIOUS	TOTAL													
1	UGT	C1	0	48	48	3136	83712	233	100	1.5	2.0	0.042	0.08	0.008	0.09	0.092	0.00	Nos.
2	C1	C2	19	0	19	1241	33136	92	100	1.5	110.6	0.042	4.64	0.464	5.11	5.108	0.00	0
3	C1	C3	0	29	29	1895	50576	140	100	1.5	55.1	0.042	2.32	0.232	2.55	2.547	0.00	1
4	C3	C4	29	0	29	1895	50576	140	100	1.5	214.1	0.042	8.99	0.899	9.89	9.888	0.00	1
																	0.00	0

381.76

say 400 mm

ARCHITECT
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For ETERNAL HOUSING INFRA LLP

Authorized Signatory

DESIGN OF

ARCHITECT
DHARMVIR SINGH
CA/2012/56895

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LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres)
FALLING IN VILLAGE HARSARU, SECTOR-37D, GURGAON, HARYANA.

DESIGN CALCULATION FOR STORM WATER

S. NO.	NAME OF THE LINE	AREA TO BE SERVED IN ACRES			DISCHARGE @ 1/4" RAIN FALL	FINAL DISCHARGE	SIZE OF PIPE DRAIN (IN MM)	"C" VALUE	VELOCITY	DISCHARGE CAPACITY OF PIPE	LENGTH OF PIPE	SLOPE	FALL IN METERS	GROUND LEVEL		INVERT LEVEL		DEPTH OF PIPE AT		AVERAGE DEPTH OF PIPE
		SELF	PREVIOUS	TOTAL										U/End	L/End	U/End	L/End	U/End	L/End	
					6.25MM/HR		In mm		(In m/sec)	(In LPS)	(In mtrs.)	(In mtrs.)	As per pipe slope	U/End	L/End	U/End	L/End	U/End	L/End	(in mts)
1	D-1	D-3	0.19	0.000	0.189	0.0013	400	0.013	0.76	95.59	71.0	475	0.15	-0.75	-0.75	-2.150	-2.299	1.40	1.55	1.47
2	D-2	D-3	0.07	0.000	0.067	0.0005	400	0.013	0.76	95.59	14.7	475	0.03	-0.75	-0.75	-2.150	-2.181	1.40	1.43	1.42
3	D-3	D-4	0.30	0.255	0.552	0.0039	400	0.013	0.76	95.59	57.1	475	0.12	-0.75	-0.75	-2.299	-2.420	1.55	1.67	1.61
4	D-4	RWH-1	0.07	0.552	0.626	0.0044	400	0.013	0.76	95.59	8.2	475	0.02	-0.75	-0.75	-2.420	-2.437	1.67	1.69	1.68
5	RWH-1	D-6	0.05	0.626	0.675	0.0047	400	0.013	0.76	95.59	14.0	475	0.03	-0.75	-0.75	-2.150	-2.179	1.40	1.43	1.41
6	D-5	D-6	0.35	0.000	0.346	0.0024	400	0.013	0.76	95.59	75.0	475	0.16	-0.75	-0.75	-2.150	-2.308	1.40	1.56	1.48
7	D-6	D-8	0.43	1.021	1.450	0.0102	400	0.013	0.76	95.59	16.2	475	0.03	-0.75	-0.75	-2.308	-2.342	1.56	1.59	1.57
8	D-7	D-8	0.35	0.000	0.346	0.0024	400	0.013	0.76	95.59	75.0	475	0.16	-0.75	-0.75	-2.150	-2.308	1.40	1.56	1.48
9	D-8	D-15	0.05	1.796	1.845	0.0130	400	0.013	0.76	95.59	18.7	475	0.04	-0.75	-0.75	-2.342	-2.381	1.59	1.63	1.61
9	D-9	D-11	0.42	0.000	0.420	0.0030	400	0.013	0.76	95.59	133.1	475	0.28	-0.75	-0.75	-2.150	-2.430	1.40	1.68	1.54
9	D-10	D-11	0.22	0.000	0.220	0.0015	400	0.013	0.76	95.59	87.1	475	0.18	-0.75	-0.75	-2.150	-2.333	1.40	1.58	1.49
9	D-11	D-13	0.03	0.640	0.667	0.0047	400	0.013	0.76	95.59	19.3	475	0.04	-0.75	-0.75	-2.430	-2.471	1.68	1.72	1.70
9	D-12	D-13	0.34	0.000	0.336	0.0024	400	0.013	0.76	95.59	87.2	475	0.18	-0.75	-0.75	-2.150	-2.334	1.40	1.58	1.49
9	D-13	RWH 2	0.02	1.003	1.023	0.0072	400	0.013	0.76	95.59	9.1	475	0.02	-0.75	-0.75	-2.471	-2.490	1.72	1.74	1.73
9	RWH 2	D-15	0.30	1.023	1.322	0.0093	400	0.013	0.76	95.59	71.5	475	0.15	-0.75	-0.75	-2.150	-2.301	1.40	1.55	1.48
9	D-15	RWH 3	0.09	3.167	3.254	0.0229	400	0.013	0.76	95.59	18.7	475	0.04	-0.75	-0.75	-2.381	-2.421	1.63	1.67	1.65

DIA PIPE

ARCHITECT
DHARMANVIR SINGH
CA/2012/56805

For ETERNAL HOUSING INFRA LLP
Authorised Signature

775.80 mtr
MTR.
800 mtr

DESIGN CALCULATION FOR GARDEN HYDRANT WATER SYSTEM					
Name of Work: SECTOR-37D, GURGAON, HARYANA					
S. NO.	Reference line		DIA.	Length of Line	
	FROM	TO	(In MM)	(In Mtr)	
1	STP	G1	165	5.0	
2	G1	G2	165	142.1	
3	G1	G7	165	22.0	
4	G7	G6	165	71.0	
5	G7	G5	165	143.6	
6	G2	G4	165	122.0	
7	G2	G3	165	67.7	
				573.40	

ARCHITECT
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For ETERNAL HOUSING INFRA LLP

LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

MATERIAL STATEMENT FOR ROAD					
S. No.	Node		Length	Metal Portion (m)	Area (sqm)
	From	To			
1	R1	R2	105.7	5.0	528
2	R2	R3	33.1	5.0	166
2	R2	R5	101.9	6.0	611
3	R3	R4	98.0	6.0	588
4	R4	R5	32.2	6.0	193
5	R5	R6	33.5	6.0	201
6	R6	R7	47.2	6.0	283
7	R7	R8	71.7	5.0	359
8	R8	R10	30.2	5.0	151
9	R10	R1	30.2	5.0	151
10	R10	R9	96.9	6.0	581
TOTAL LENGTH			680		3812
5 MTRS			271		1354
6 MTRS			410		2458

ARCHITECT
DHARAMVIR SINGH
CA/2012/56805

For ETERNAL HOUSING INFRA LLP
Authorized Signatory

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Sub -Work No. 1 Head No. 01		Sub -	Head works Source of Temporary arrangement (Bore well)		
S.NO	Description	Unit	Qty	Rate	Amount
1	Boring and installing 510 mm i/d borewell with reverse rotary rig complete with pipe and strainer to a depth of about 80 metre in all respect including cost of Valve chamber & pump chamber. (For drinking purpose with permission)	Each	1	7,00,000 15.0	7,00,000.00 15.00 lacs
2	Provision of construction of tube well chamber of standard size 4.90 X 4.25m	Each	1	2,25,000	2,25,000.00
3	Providing Submersible pumps for the following.				
(a)	Tubewell pumps			(L.S.)	2.50 lacs
(i)	335 LPM AT 100 m Head	Each	1	75,000	75,000.00
4	Providing and fixing Ball / Butterfly valve.				0.12
4.1	100 mm dia.	Each	1	5,000	5,000.00
4.2	150 mm dia.	Each	1	6,500	6,500.00
5	UGT 84000 ltrs capacity compartments. (incl 20% capacity for fire) UGT Flushing water come 30m near STP	Ltrs	84000 85 lacs 30m	6.50-5.00 55000/-	546000/- 4,20,000.00 1.65 lacs
6	Construction of boundary wall gate around the tube well site	LS	1	2,00,000.00	2,00,000.00
7	Provision of footpath hedges and lawns at tubewell	LS	1	75,000.00	75,000.00
8	Provision for carriage of materials and other unforeseen items.	LS		50,000	50,000.00
9	Provision for construction of staff quarters for MTC staff.	LS		100000.00	1,00,000.00 7.50 lacs
Total Abstract of cost for Subwork No. 1				1982000/-	18,56,500.00 40.95 lacs
SAY IN LAKH				19.82	18.57 1.23 lacs
Add 3% contingencies & PH Charges				0.60	0.56 48.18 lacs
TOTAL				20.42	19.12 20.67 lacs
Add 49% Departmental charges, price escalation, unforeseen,				10.00	9.37 62.85 lacs
TOTAL				30.42	28.49 105

ARCHITECT
DHARMVIR SINGH
CA/2012/56805

For ETERNAL HOLDING INFRA LLP

Authorized Signatory

LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

Sub -Work No. 1 Sub -Head No. 02		Water Supply Pumping Machinery			
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for diesel engine generator set each for standby arrangements for T.W. & Booster pump complete with 50 KVA capacities	LS	1	4,00,000	4,00,000.00 7.50
2	Providing Boosting pumps for the following.				
(a)	DOMESTIC PUMP		(1+1)	0.60	1.20 la
(i)	250 lpm & 40 m Head (1 working+1 Standby) 3HP	Set	2	3,00,000	3,00,000.00
(D)	IRRIGATION PUMP		(1+1)	0.60	1.20
(i)	250 lpm & 40 m Head (3HP)	Set	2	3,00,000	3,00,000.00
3	Provision for chlorination plant complete.	Each	-	35,000	1.00
4	Provision for making foundations and erection of pumping machinery.	LS		1,00,000	1,00,000.00
5	Provision for pipes, valves and specials inside the pump chamber and boosting chamber.	LS		1,00,000	1,00,000.00
6	Provision for electric service connection including electrical fitting for tube-well and boosting chamber etc. (lumpsum) including cost of transformor.	LS		50,000	2, 50,000.00
7	Provision for carriage of material and other unforeseen items etc.	LS		50,000	50,000.00
Total Abstract of cost for Subwork No. 1					15.90 la 13,00,000.00
SAY IN LAKH					0.48 la-13.00
Add 3% contingencies & PH Charges					16.38 la-0.39
TOTAL					13.39
Add 49% Departmental charges, price escalation, unforeseen,					8.02 la-6.56
TOTAL					24.40 la-19.95

ARCHITECT
DHANAMVIR SINGH
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For ETERNAL HOUSING INFRA LLP
Authorized Signatory

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Sub -Work No. 1 Sub -Head No. 03		Water distribution lines & Rising main			
S.NO	Description	Unit	Qty	Rate	Amount
1	Providing, laying, jointing and testing DI pipe lines including cost of excavation etc. complete in all respects.		400	14601	5.84 lacs
a	100 mm dia.	Mtr	480	2,350	11,28,000.00
2	Providing, laying, jointing and testing GI pipe lines including cost of excavation etc. complete in all respects.				
a	80 mm dia. <i>from and fixing fire hydrant</i>	Mtr	0	1,650	-
b	65 mm dia. <i>with accessories</i>	Mtr	0	1,200	-
c	32 mm dia.	Mtr	0	590	1.00 lacs
d	25 mm dia.	Mtr	100	550	55,000.00
e	20 mm dia.	Mtr	0	450	-
3	Providing and fixing sluice / Butterfly valve including cost of surface box and masonry chamber etc. completed in all respects.				
(a)	100 mm dia.	Each	5	12,000	60,000.00
(b)	80 mm dia.	Each		10,500	-
(c)	65 mm dia.	Each		9,000	-
4	Providing and fixing ball valves including cost of surface boxes and masonry chambers etc. complete in all respect.				
a	25 mm dia. <i>100 mm dia. DI Rising main line to GGI</i>	Mtr	110m	2514601	1.61 lacs
5	Providing and fixing air valves and scour valves including cost of brick masonry chamber complete.	Each	2	103,500	207,000.00
6	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen	LS			1,00,000.00
7	<i>Rate for making connection with JSP main</i>				2.00 lacs
8	Provision for carriage of material and other unforeseen Items etc.	LS		50,000	50,000.00
Total Abstract of cost for subwork No. 1					14,97,500.00
SAY IN LAKH					14.98
Add 3% contingencies & PH Charges					0.45
TOTAL					15.42
Add 49% Departmental charges, price escalation, unforeseen,					7.56
TOTAL					22.98

ARCHITECT
DHARMVIR SINGH
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Sub -Work No. 1 Sub -Head No. 04		Rising Main From HSVP			
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for rising main from HUDA main to UGT	LS	70	50,000	35,00,000.00
	<i>Provision for making connection with GMDA/HSVP</i>				
	Total Abstract of cost for subwork No. 1				500000.00
					35,00,000.00
	SAY IN LAKH				40.00 -35.00
	Add 3% contingencies & PH Charges				1.20 -1.05
	TOTAL				41.20 -36.05
	Add 49% Departmental charges, price escalation, unforeseen,				20.18 -17.66
	TOTAL				61.38 -53.71

ARCHITECT
DHANANWIR SINGH
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For ETERNAL HOLDING INFRA LLP
Authorised Signatory

LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

Sub -Work No. 1 Sub -Head No. 05		Water supply Flushing & Irrigation System			
S. NO	Description	Unit	Qty	Rate	Amount
1	Providing, Laying, Jointing and testing uPVC (6 kg/cm ²) pressure rating pipe line confirming to IS : 4985 including cost of excavation etc. complete in all respect. (Flushing & Garden Hydrant Line)			300	
(a)	25 mm dia	Meter	15	250	0.05 3,750.00
(b)	32 mm dia	Meter	0	350	-
(c)	63 mm dia	Meter	600	750	4,50,000.00
	premium for indicating plate			14601	8.76 lacs
1A	Providing, laying, jointing and testing GI pipe lines including cost of excavation etc. complete in all respects.		(2.3)		0.20 lacs
(a)	20 mm dia.	Mtr	0	450	-
(b)	25 mm dia.	Mtr	0	550	-
(c)	32 mm dia.	Mtr	0	590	-
2	Providing and fixing ball valves including cost of surface boxes and masonry chambers etc. complete in all respect.			12000	0.72 lacs
(a)	25 mm dia	Meter	19.6	550	10,450.00
(b)	32 mm dia	Meter	0	700	-
3	Providing and fixing air release valve 25 mm dia irrigation hydrant valve complete in all respects	Each	10	3500	0.50
4	Provision for carriage of Material and other unforeseen. Items.	LS		10,000.00	10,000.00
5	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen	LS			0.50 lacs 10,000.00
Total Abstract of cost for Subwork No. 1					11.97 lacs 4,84,200.00
SAY IN LAKH					0.34 lacs 4.84
Add 3% contingencies & PH Charges.					11.57 lacs 0.15
TOTAL					5.66 lacs 4.99
Add 49% Departmental charges, price escalation, unforeseen,					2.44
TOTAL					17.23 lacs 7.43

ARCHITECT
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Sub -Work No. II		Sewerages System			
S. NO	Description	Unit	Qty	Rate	Amount
1	Supplying, lowering, laying, jointing, testing and commissioning of glazed stoneware pipes grade "A" conforming to IS 651:1992 with latest amendments including conveying of pipe to worksite and caulking with hemp / yarn dipped in tar and jointing with C.M. 1:1 perfect linking and curing for 10 days, and testing with water with all lead including cost of jointing materials as directed etc., complete.				3.40 lacs
1.1	200 mm diameter	M	200	1700/600	1,20,000.00
1.2	250 mm diameter	M	210	2000/700	1,47,000.00
2	Provision for lighting and watching.	LS		25,000	25,000.00
3	Provision for providing oblique junction	LS		25,000	25,000.00
4	Provision of making connection from HUDA GMDA/HSP	LS		30,000	3,00,000.00
5	Providing of temporary timbering	LS		50,000	50,000.00
6	Providing STP 80 lacs capacity up to 100 lacs Sewer treatment	KL	80-75	25000/3500 16000/	20,00,000.00 12,80,000.00
7	Provision for vent shafts at suitable places as per public health requirement	LS		1,00,000	1,00,000.00
8	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen	LS			1,00,000.00
Total Abstract of cost for Subwork No. II				2867000/-	8,59,500.00
SAY IN LAKH				28.67	8.60
Add 3% contingencies & PH Charges				0.86	0.26
TOTAL				29.53	8.85
Add 49% Departmental charges, price escalation, unforeseen,				14.47	4.34
TOTAL				44.00	13.19

ARCHITECT
DHARAMVIR SINGH
CA/2012/56805

For ETERNAL HOUSING INFRA LLP
Authorised Signatory

LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

S.NO	Sub -Work No. III			Storm Water System	
S. NO	Description	Unit	Qty	Rate	Amount
1	Providing, lowering, laying & jointing RCC NP2 class pipes and specials into trenches including cost of excavation, cost of manholes etc. complete in all respects.				
(b)	400 mm dia.	M	800	2500/700	90.00 lac 5,60,000.00
2	Provision for rainwater harvesting arrangements @ Rs. 1. lac per acre for approximately 3.7 acres by providing Recharging Well.	LS each	4	1,00,000 3.50 lac	4,00,000.00 14.00 lac
3	Provision of road gully chamber with pipe connection	LS		1,25,000	1,25,000.00 9.00
4	Provision for lighting and watching.	LS		25,000	25,000.00 1.00 lac
5	Provision for connection with HUDA Storm water main line 1 no. HSUP/GMDA	LS	1	25,000	25,000.00 300 2.00
6	Provision of cutting of roads & making good to its original condition and carriage of material etc and other unforeseen	LS			5,00,000.00
7	Provision for temporary disposal arrangement till HSW committee is formed				95 5.00 lac
Total Abstract of cost for Subwork No. III			(L.S)	15.10	12,35,000.00 49.50
SAY IN LAKH				15.10	12.35 1.48
Add 3% contingencies & PH Charges				0.45	0.37 50.98
TOTAL				15.55	12.72 24.96
Add 49% Departmental charges, price escalation, unforeseen,				7.62	6.23 75.96
TOTAL				23.17	18.95 165
				Say Re. 23.20	

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LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN
CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

S.NO	Sub -Work No.IV			Roads and Footpaths	
	ROAD NAME		Length (M)	Metalled portion	Area in sqmt.
(a)	6 M WIDE		410.0	6.0	2,460.00
(a)	5 M WIDE		271.0	5.0	1,355.00
(c)	Total Length of Road		681.0		3,815.00
	Total Area of Road =			3,815.00	m2
	Add 5% for curve =			190.75	m2
	Total Area			4,005.75	m2
	SAY			4,006.00	m2
	Kerb and Channels:	681.0	5% curves	34.05	715.05
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for leveling and earth filling as Per site condition.	Acre	3.700	150000	5,55,000.00
1	The necessary provision for construction of roads parking etc has been made in the estimate according to the HUDA norms the following specification has been proposed.		3.63125	1.75 lak	6.35 lak
2	Constriction of roads by providing granular sub base 300 mm as per MORT & H specs conforming to clause 401 grading -II 400.1				
(I)	Providing and laying spreading & compacting hand broken/ crushed stone aggregate to wet mix conforming to physical requirement laid in 400 of MORT & H specification n in two layers (Compacting to 250mm (125+125mm) by taking material 1:32 times of the (thickness of the layer) including premixing of material with water in mechanical mixer.				
(II)	50mm thick B:M- DBM				
(III)	20mm thick mix seal surfacing B.C complete				60.09 lak
(IV)	Sqm	Sqm	4006.00	1500/ 450	18,02,700.00
3	Provision for kerbs and channels				4.29 lak
(a)	Metre	mtr	715.05	600/ -250	1,78,762.50
					1.00 lak
4	Provision of guide maps and indicators	LS	(L.S)	20000	-20,000.00
5	Provision of foot path on 9m wide road on both side parking/ service/ open space	LS	(L.S)	100000	20.00 lak
					1,00,000.00
6	Provision for plot indicators	LS		10000	10,000.00
7	provision for demarcating burgees	LS		30000	30,000.00
8	Provision for traffic arrangement	LS		100000	1,00,000.00
9	Provision for making approach and pavement to building.	LS		100000	1,00,000.00
10	Provision for carriage of materials & other unforeseen Items.	LS		25000	2.50 lak
					-25,000.00

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LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN
CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

	Total Abstract of cost for Subwork No. IV				96.31 lacs -29,21,462.50
	SAY IN LAKHS				2.89 -29.21
	Add 3% contingencies & PH Charges				99.20 -0.88
	TOTAL				48.60 30.09
	Add 49% Departmental charges, price escalation, unforeseen,				147.80 -14.74
	TOTAL				147.80 -44.84
	Sub -Work No.V				
				Plantation and road side trees	
	Description	Unit	Qty	Rate	Amount
S.NO	Development of lawn area				
1	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.				
(a)	Rough dressing of turfed area				
(b)	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 @ 100000 per acre.	Acre	3.63125 -3.70	1.50 1,00,000.00	5.45 lacs 3,70,000.00
(c)	Providing tress, guards and planting tress along road at 12 m interval Total road length = 715 Mtr. No of Tress = 681/12 = 56.75 Say 715 = 60 Nos. <u>Cost Analysis of Planting Trees</u> Excavation = 50.00 each 60.00 Manure = 50.00 each 180.00 Tree plants = 200.00 each 150.00 Tree guards = 500.00 each 2310 Total Cost = Rs 800.00 per tree	Each	60 Nos	2310 -800.00	1.39 lacs 48,000.00
2	Total Abstract of cost for Subwork No. VI				6.84 lacs 4,18,000.00
	SAY IN LAKHS				6.84 lacs 4.18
	Add 3% contingencies & PH Charges				6.20 -0.13
	TOTAL				7.04 lacs 4.31
	Add 49% Departmental charges, price escalation, unforeseen,				3.45 lacs 2.11
	TOTAL				10.49 lacs 6.42

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LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

S.NO	Sub -Work No.VI				Street Lighting
	Description	Unit	Qty	Rate	Amount
1	Providing Street lighting on roads as per standard specification of HVPN.				
(a)	Acre	Acres	3.63125	2.50/lacs	9.081lacs
			3.700	1,00,000	3,70,000.00
	Total Abstract of cost for Subwork No. V				3,70,000.00
	SAY IN LAKHS				3.70
	Add 3% contingencies & PH Charges				0.11 0.11
	TOTAL				3.81
	Add 49% Departmental charges, price escalation, unforeseen,				1.87
	TOTAL				5.68
	SAY IN LAKHS				5.68
					13.93lacs 6.00
	Sub -Work No. VII		MTC. Charges & Resurfacing of Roads		
S.NO	Description	Unit	Qty	Rate	Amount
1	Provision for MTC charges for water supply, sewerage, storm water drainage, roads, street light and horticulture complete in all respects				
1.1	Acres		3.63125	3.00000	10.89375lacs
			3.700	300000	11,10,000.00
2	Resurfacing of roads after Ist 5 Yrs, 50mm thick B.M & 25 mm thick P. carpet.				
(a)	Sqm	Sqm	4006	660/	26.44lacs
			3,815.00	400	15,26,000.00
3	Provision for resurfacing of roads after 10 yrs. by providing 25mm thick premire carpet.				
(a)	Sqm	Sqm	4006	825/	33.05lacs
			3,815.00	450	17,16,750.00
	Total Abstract of cost for Subwork No. VII				88.54lacs
	SAY IN LAKHS				43,52,750.00
	Add 3% contingencies & PH.Charges				1.31
	TOTAL				44.83
	Add 49% Departmental charges, price escalation, unforeseen,				21.97
	TOTAL				66.80
	SAY IN LAKHS				67.00

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For ETERNAL HOUSING INFRA LLP

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PROJECT- LAYOUT PLAN FOR ADDITIONAL LAND AREA FOR COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 1.43125 ACRES IN CONTINUATION OF LICENSE NO 47 OF 2023 (2.20 Acres) FALLING IN VILLAGE HARSARU ,SECTOR-37D, GURGAON, HARYANA.

WATER CONSUMPTION SHEET

S.NO.	DESCRIPTION	OCCUPANCY LOAD	F.A.R. (SQM)	POPULATION AS PER NBC-2016	TOTAL POPULATION	TOTAL WATER REQUIRED ACC. TO NBC	FLUSH WATER REQUIRED			DOMESTIC WATER REQUIRED	TOTAL GROSS WATER	WATER FLOW IN STP		
							LPD	LPD	LPD			FLUSHING - 100%	DOMESTIC - 80%	TOTAL WATER IN STP
A SCO TYPE-A 13 NOS,SCO TYPE -B 14 NOS,SCO TYPE-C 5 NOS,SCO TYPE-D 12 NOS,SCO TYPE-E 3 NOS.														
1 GROUND & BASEMENT														
1.1	FLOATING POPULATION (Visitors)	3 SQM / PERSON X 90%	4800.00	1440	1440	15	10	14400	5	7200	21600	14400	5760	20160
1.2	FIXED POPULATION (Shopkeeper)	3 SQM / PERSON X 10%		160	160	45	20	3200	25	4000	7200	3200	3200	6400
2 FIRST FLOOR														
2.1	FLOATING POPULATION (Visitors)	6 SQM / PERSON X 90%		360	360	15	10	3600	5	1800	5400	3600	1440	5040
2.2	FIXED POPULATION (Shopkeeper)	6 SQM / PERSON X 10%		40	40	45	20	800	25	1000	1800	800	800	1600
3 2ND,3RD & 4TH FLOOR ON TYPE A & B														
3.1	FLOATING POPULATION (VISITORS)	6 SQM / PERSON X 10%		114	114	15	10	1136	5	568	1704	1136	454	1590
3.2	FIXED POPULATION (STAFF)	6 SQM / PERSON X 90%		1022	1022	45	20	20448	25	25560	46008	20448	20448	40896
TOTAL														
					3136			43584		40128	83712	43584	32102	75686
SAY IN KLD								44	40	84	44	32	76	

		UGT REQUIREMENT			
a.	STP Required			76	KLD
	SAY		say	75 80	KLD
B	Domestic water Tank (From Bore well / HSVP/GMDA)			40	KLD
C	Flushing water (From STP)			44	KLD

+5% marginal factor
 $76 + 3.80 = 79.80$

Ans $100 \times \sqrt{3.316 \times 1/3} = 59.02 \text{ kN say } 60 \text{ kN}$

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Dam water tank @ 60% = $40 \times 0.60 = 25$ kL
 Flushing UGT. 44 per @ 60% = 26.4 kL

FOR ETERNAL HOUSING INFRA LLP

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