Directorate of Town & Country Planning, Haryana

Nagar Yojana Bhavan, Plot No. 3, Sector 18 A, Madhya Marg, Chandigarh Phone: 0172-2549349 e-mail:tcpharyana7@gmail.com website:-http://tcpharyana.gov.in

Regd.

M/s GLS Infraprojects Pvt. Ltd., 707, 7th floor, JMD pacific Square, Sector-15, Part-II, Gurugram.

Memo. No. LC-4200 (A+B)/JE (DS)-2022/ 3222 Dated:

16-05-2022

Subject:

Approval of Service Plan/Estimates of Commercial Plotted Colony on land measuring 2.95625 acres (License No. 103 of 2021 dated 08.12.2021) in Sector-95, Gurugram Manesar Urban Complex being developed by GLS Infraprojects Pvt. Ltd.

Ref:

Chief Engineer-I, HSVP memo no. CE-I/ACE(HQ)/HDM(G)/2022/15868 dated 31.01.2022.

The Service Plan/Estimates of Commercial Plotted Colony on land measuring 2.95625 acres (License No. 103 of 2021 dated 08.12.2021) in Sector-95, Gurugram Manesar Urban Complex being developed by you, has been checked and corrected wherever necessary by Chief Engineer-I, HSVP, Panchkula and are hereby approved subject to the following terms & conditions:

- That you will abide by all the conditions and notes mentioned in the Service Plan Estimates of the subject cited colony contained in the Chief Engineer-I, HSVP, Panchkula office memo dated 31.01.2022.
- 2. That you will have to pay the proportionate cost to the External Development Charges for setting up Commercial Plotted Colony for the services like water supply, sewerage, storm water drainage, roads, bridges, community building, street lighting, horticulture and maintenance thereof etc. on gross acreage basis as and when determined by HSVP. These charges will be modifiable as and when approved by the authority/State Govt. and will be binding upon the colonizer.
- 3. The category wise area shown on the plans and proposed density of population thereof has been treated to be correct for the purpose of services only.
- 4. That you shall be responsible for maintenance and upkeep of all roads, open spaces, public parks and public health services for a period of five years from the date of issue of the completion certificate under rule 16 unless earlier relieved of this responsibility and there upon to transfer all such roads, open spaces, public parks and public health services free of cost to the Government or the local authority, as the case may be.
- 5. The wiring system of street lighting will be under ground and the specifications of the street lighting fixture etc. will be as per relevant standard of HVPNL.

LED lamps shall be provided to meet the requirement of HVPNL and as well environment.

- 6. It is made clear that appropriate provision for fire-fighting arrangement as required in the NBC/ISI should also be provided by you and fire safety certificate should also be obtained from the competent authority before undertaking any construction. You shall be sole responsible for fire safety arrangement.
- 7. All technical notes and comments incorporated in the estimates in two sets will also be applicable. A copy of these is also appended as Annexure-A.
- 8. That you shall transfer the land forming part of 24 mtr wide service road/internal circulation road, free of cost in favour of Govt. and submit the mutation in this regard within 30 days.

Note (1):-

That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Controlled Board or any other Authority Administering the said Acts.

A copy of the approved service plan/estimates is enclosed herewith. You are requested to supply three additional copies of the approved service plan/estimates to the Chief Administrator, HSVP, Panchkula under intimation to this office. DA/As Above.

(S.K Sehrawat)
District Town Planner (HQ)
For Director, Town & Country Planning,
Haryana, Chandigarh

Endst. No. LC-4200 (A+B)/JE(DS)/2022/

Dated:

A copy is forwarded to the Chief Engineer-I, HSVP, Panchkula with reference to his memo no. CE-I/ACE(HQ)/HDM(G)/2022/15868 dated 31.01.2022 for information and necessary action please.

(S.K Sehrawat)
District Town Planner (HQ)
For Director, Town & Country Planning,
Haryana, Chandigarh

, k

INTERNAL DEVELOPMENT WORKS

DESIGN AND COST ESTIMATES

FOR

PROPOSED LICENSE TO SET UP PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

OWNER



M/S GLS INFRAPROJECTS PVT. LTD.

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95,

Report

Gurugram town of Haryana State is situated in 30 Kms from Delhi. Being in the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, Haryana Shahari Vikas Pradhikaran (HSVP) has already developed many commercial/residential sectors. Further to the increasing demand HSVP has planned to develop new sectors in Gurugram. This report and estimate is for approximately 2.95625 Acres, Sector-95, Gurugram, proposed to be developed by M/S GLS INFRAPROJECTS PVT. LTD.

WATER SUPPLY

At present the source of water supply in this area is HSVP Supply direct connection to each plot. The water supply system has been designed as per the Hazen William formula.

DESIGN

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

SEWERAGE SCHEME

Sewer line from proposed development will be connecting to the proposed sewage treatment plant(STP). Surplus sewage / treated effluent shall be disposing to HSVP sewer line on Sector Road.The sewerage system has been marked on the respective plans.

Sewer lines have been designed for three times average D.W.F in relation to water supply demand. It has been assumed that about 80% of the domestic & flushing water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft./sec self-cleaning velocity. Sewer line up to 400mm dia has been designed to run half full and above 400mm dia has been designed to run three fourth full at peak flow. Necessary provision for laying S.W/RCC pipe sewer line, construction of required number of manholes etc., has been made in the estimate. Cosidering the future expansion/ development STP capacity is increased.

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

STORM WATER DRAINAGE

We are proposing to lay underground R.C.C. pipe drains with required number of catch basins, manholes and rainwater recharge pits with over flow to the Proposed HSVP storm drain on sector Road. The intensity of rain fall has been taken as ¼" per hour. R.C.C storm water line will be designed as per Manning's formula.



Plotted SCO Development at Sec-95, Gurugram

SPECIFICATIONS

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

Estimate of Road work is prepared as per revised specifications adopted by HUDA

STREET LIGHTIING

Provision for streets lights also has been made

HORTICULTURE

Estimates of plantation, landscaping, signage, etc., have been included

The estimate has been prepared based on the present market rates

COST

The total cost of the scheme, including cost of all services works out to be R8:2,56,62,665.99 442.85 Lalch

Including

3% Contigencies

and 49% Departmental Charges

2.95625 Acres Area of commercial development as per License 6.40625 Acre

Net Cost Per Acre

Rs. 40,05,879.57

Rs 149.80 Laten

For:

M/S GLS INFRAPROJECTS PVT. LTD.

Authorized Signatory



Plotted SCO Development at Sec-95, Gurugram

																					2010	るからいるだり	12.00											
	WC	Total Flow in LPD				7309.00	23023.35	43985.60	1539.50	400.00		1500	77757								,	52035	0					DAG	50	SIM SE	1			
	Sewage Flow	100% of Flushing in LPD				3654.50	16445.25	21992.80	1099.64	200.00											1-1/1	./00%						12	निर	加入	1			
	П	80% of Domestic in LPD				3654.50	6578.10	21992.80	439.86	200.00											6	253				KLD	Hrs	LPM	I PM	LPM		Mtr	Mtr	Mtr
	Total	Flushing Water Demand in				3654.50	16445.25	21992.80	1099.64	200.00	10000	0	53392	43 KLD	43 KLD	10 KLD	78 KLD	93 KLD	94 KLD			p Courte											-	_
	Flushing	Water Demand in LPCD				3 20.00	3 10.00	20.00	10.00	20.00				43	43	10	78	93	94		A. M.	19874				43	4	177	177	180		0	10	17
V	Total	Domestic Water Demand in				4568.13	8222.63	27491.00	549.82	250.00		1500	42582							43 KgC)	115KLD		168 KL)										
DEMAND & PUMPING SYSTEM	Domestic	Water Demand in LPCD				25	5	25	Σ.	25				PD	PD	PD	PD			N :	İ									Say				
R DEMAND & PUMP	Total Water	Demand in LPD				8222.63	24667.88	49483.80	1649.46	450.00	00001	1500	95974	42582 LPD	43392 LPD	10000 LPD	77757 LPD			WGT DOW								-						
DAILY WATER	Water	Demand in LPCD				45	15	45	15	45																								
ď		Total Population	1396	432	1827	183	1645	1100	110	10			1292									servior)												t ferrule
	Population	/Unit or per Sqm.	က	9				10										MOEF				and)^1/2)/ ground static Re			pacity	Demand (I)	rs for pumping	Required Pumping Capacity	pacity	-	ad			Residual Head required at farthest ferrule
	Multi-	dwelling unit or Area in Sqm.	4187	2589.50				10996.40			51							s required by I				00 * (P in thous only for Undry	acity	(1)	Water Pump Capacity	lotal Domestic Demand (i)	Daily Working Hrs for pumping	Required Pumping Capacity	Each pump Capacity		Water Pump Head	Suction lift	Elevation Height	Residual Head requ
		Description	Ground Floor	First Floor	al	Permanent Population @ 10 %	Floaring Population @ 90 %	Second Floor to Fourth Floor	Visitors @ 10 % of Office Staff	Maintanance Staff	Horticulture . Assunmed area	T	Total	Domestic Water Demand	Flushing water Demand	Irrigation Water Demand	Sewage Generated	STP Capacity adding 20 % extra as required by MOEF		Market Tank One	Fire Water Lank Cap.	Fire demand = (100 $^{\circ}$ (P in thousand)^1/2)/ = 100 x (1.292)^1/2 = 113.67 KL only for Undrground static Reservior)	Total Underground Water Tank Capacity	Water Transfer Pumpset (Domestic)	a)			≡ 2			(q	Ĭ.	ii Ei	iii
			ē	LS	Total	히	١ŏ	က္ကု	<u>.</u> SI	0	0	1 =	#	5	위	-00	≩	01	SAY	H	છ	- 1	9	꾍				1			1			11

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT.

GURUGRAM. FINAL ABSTRACT OF COST A moust in ReLatch Description Total of sub work 3% Contigencies **TOTAL** 49% departmental **Grand Total** Sub Work-1 47000 56 2372115 141007 4841052 7213167 **Water Supply** 38.22.000 1,14,660 39,36,660 19,28,963 58.65.623 Sub Work-2 2299000/ 68970 2367970 1160305 35282 Sewerage 26,32,000 78,960 27.10.960 13,28,370 40,39,330 Sub Work-3 63300 21,10000 1064917 7238 2173360 S₩ Drainage 24,19,680 72.590 24,92,270 12,21,212 37,13,483 Sub Work-4 5045262 44,66,063 S19H20 254/344 7742964:00 Road Works 46,00,044 22,54,022 4246969 Sub Work-5 Street Lighiting 2,95,625 3,04,494 761235 8.869 1,49,202 4,53,696 22/72/-139063 Sub Work-6 11342 373005 Plantation & Road side 8,625 Trees/Horticulture 2,87,500 556538 2,96,125 1,45,101 4,41,226 280885 Sub Work-7 73234 854119 \$778750 28 26 2 6 48 42,95,242 78 2 5 8 4 8 MTC Charge and 173313 5252113 14,12,529 Resurfacing of Road 30011 27.98.750 28,82,713 10033688 10334699 1539 **TOTALS** Rs. 1,67,21,617.25 Rs. 5,01,648.52 Rs. 1,72,23,265.77 Rs. 84,39,400.23 Rs. 2,56,62,665.99 29718773 - 14562198 865 596 -288531 94428 Rs. 2,56,62,665.99 3008/964-0049281 Area of commercial development as per License 2.95625 Acre 442.85 lalen Re 149, 80 Caleh 442.85 Laleh Rs. 86,80,817.25 101-36 tacs **Net Cost Per Acre** For: TWIS GLS INFRAPROJECTISCHET, PTO. Ltd. **Authorised Signatory Authorized Signatory** Checked subject to comment in forwarding letter No. 5868. Executive Engineer

Dt. 31/01/2022 and notes attached with the estimate

Additional Chief Engineer (HQ) for Chief Engineer-I, HSVF Ranchkula

28.1120

HSVP Division No. 1, Gurugram

> Superintending Engineer, HSVP. Circle, Gurugram.

Haryana, Chanc

Page 6

WATER SUPPLY

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

S No.	Heads	Description	Amount
1	Sub Head 1	HUDA Water Supply Distribution System	Rs. 3,96,990.00
2	Sub Head 2	Pumping and machinery	2306000 Rs. 1 6,83,500 .00
3	Sub Head 3	Domestic Water supply	Rs. 15,71,230.00
4	Sub Head 4	Flushing/Irrigation System	315 800 Rs. 2,60,370.00
		TOTAL	470005 Rs. 3 8,22,00 0.00



Sub Head 1

0

WATER SUPPLY

HUDA Water Supply Distribution System

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT.

GURUGRAM.

NO.	Description	Amount
	HUDA Rising Main	
1	Providing, laying, jointing and testing CI/DI pipe lines Including cost of excavation etc. complete in all respects.	2256
a)	50-mm dia pipe 18 Mtr. @ Rs. 800 12 55	Rs. 14,400,00
2	Providing and fixing sluice valve and air release valve including cost of surface boxes and masonary chambers etc. complete in all respects	12011
	100 mm dia 1 Nos. @ Rs. 6;500 19006 =	Rs. 6,500.00
3	Providing and fixing indicating plates for sluice valve and air valves	Lorol
a)	1 Nos. @ Rs. 6,000 o each	Rs. 6,000.00
	1000	20.00
4	Provision for carriage for materials and other unforeseen items (L/S)	Rs. 30,000.00
5	Provision for cutting of roads and making good to its original conditions (L/S)	Rs. 50,000.00
6	Provision for making connection with HSVP water main (L/S)	30,00
	4-Nos. @ Rs. 2,90,000	Rs. 2,00,000.00
		100,00
To	tal of Sub Head 1 Carried over to summary of Sub work - 1	Rs. 3,06,900.00



Plotted SCO Development at Sec-95, Gurugram

0

Ro 100, ow Rs 3,00,000 Rs. 50,000.00 Rs. 50,000,00 WATER SUPPLY Pumping and machinery Rs. 1,00,000.00 Rs. 34,590.00 Rs. 6,72,000.00 Rs. 16,83,500.09 Rs. 3;80,000.00 Rs. 80,000.00 Rs. 3,20,000.00 2 500 ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM. Amount for electric connection include clears beting each Rs. 50,000.0 each. each. Rs. 1,60,000:00 Rs. 1,90,000.00 Provision for Plumbing. Plant Room and 168 KL Capacity water Tank complete in all respect Providing & installing VFD pumping set of following capacity for Flushing/Irrigation Pumps Providing & installing VFD based pumping set of following capacity for Domestic Supply Nos @ TOTAL COST TO SUB WORK-1 Provision for carriage of material and other unforeseen items etc. L/S Provision for making foundations and erection of pumping machinery Provision for pipes, valves and specials inside the boosting chamber 2 Nos. @ 2 Nos. @ const of booth chambos Rs. 4,990.90 4 Stol - per KL Capacity 230 LPM each pumps @ 45 mtr. 🧹 州 ل Capacity 200 LPM each pumps @ 45 mtr. Rs. 40,000.00 Provisions for chlorination plant complete Rs. 50,000.00 Rs. 4,500.00 SUB WORK No. 1
Sub Head ON Provision for Gen Set. 15 7 KVA @ 2 Set @ 168 KL. @ 2 Set @ Description 0 a â

Pe 23,06,000

Parvision for ESS-I NG Shed with foundation LS

SUB WORK No. 1 WATER SUPPLY Sub Head 3 **Domestic Water supply** ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, S No Description Amount Providing, laying, jointing and testing DI pipe lines including fittings, valves, cost of excavation etc. complete in all respects. 341 Mtr @ Rs. 890a) 100 mm Pipe per Mtr Rs. 3,03,490 Providing and fixing sluice valve including cost of surface boxes and masonry 2 chambers etc. complete in all respects. 12000 a) 100 mm 2 Each @ Rs. 5,620 Rs. 11,240 Providing and fixing External Fire Hydrants including chamber Nos @ Rs. 7,000 15000 1 Rs. 7,000 Providing and fixing air release valve and scour valve 02 Nos @ Rs. 6,000 1505 -Rs. 12,000 Indication plate for valves, hydrant AV etc. 5 Rs. 25,000 6 Provision for carriage of materials and other unforeseen items Rs. 40,000 Providing all material, tools & plants to lay pipe with trenchless method for following diameter, including horizontal trenching pulling of HDPE pipe butt welded at a depth of 1500-2500mm depth from grade level complete in all respect. 35 Mtr. @ Rs. 33,500 each' Rs. 11,72,500.00 grow o Provision for cuttin f of wads E malesp Rs 30,00 TOTAL CO to SUB WORK - 1 Rs. 15,71,230.00



0 0 0

O

Remarks			26										
	Residual	3	25	Mtr	44.966	44.963	44.935	44.931	44.916	44.916	44.913	44.912	000 77
	ssoy peəH	gloT	20	Mtr	0.0172	0.0187	0.0667	0.0221	0.0410	0.0173	0.0204	0.0181	0.0007
self head	losses		19	Mtr	0.0172	0.0016	0.0480	0.0034	0.0189	0.0001	0.0031	0.0008	80000
Total water Total water I enoth Prenosal Velocity head self-head	losse		18	Mtr/Mtr	0.00143	0.00004	0.00107	0.00008	0.00031	0.00000	0.00021	0.00002	800000
	in m/sec		- 47	Mtrisec	0.290	0.043	0.248	090.0	0.128	0.009	0.102	0.026	0800
Pronose	d line		16	MM	100	100	100	100	100	100	100	100	400
Lenoth			16	Mtr	12	38	45	44	09	40	15	53	3.4
Domestic Water supply hydraulic calculation Floating pannishing pannishing pannishing pannish pannish Dannes Valority has sell based	demand itr /day (considering 6Hr pumping)		14	LPM	114.1	16.8	97.3	23.5	50.3	3.4	40.3	10.1	22 E
Total water			13	CAT	41072.0	6040.0	35032.0	8456.0	18120.0	1208.0	14496.0	3624.0	8458.0
Domestic Water	Demand @ 25 ipcd for Fixed Population and 5 ipcd for Floating	Population	12	CPD	41072.0	6040.0	35032.0	8456.0	18120.0	1208.0	14496.0	3624.0	8458.0
tion		Total	11		1754	258	1496.4	361.2	774	51.6	619.2	154.8	364.0
Hoo Popula		Branch	10		1754.4	0	1135.2	0	670.8	0	516	0	c
Floa		Self	6	SON	0	258	361	361	103	52	103	155	26.1
tion		Total	8		1292	190	1102	266	570	38	456	114	986
xed Popula		Branch	7		1292	0	836	0	484	0	380	0	
u.		Self	9	SON	0	190	266	266	9/	38	9/	114	986
		Total	15	NOS	34	က	58	7	15	-	12	ო	7
		Branc	4	SON	34	0	22	0	13	0	10	0	c
	Total	Self	3	NOS	0	2	7		2	1	2	က	,
	Line No		2		D1 - D2	D2 - D2a	D2 - D3	D3 - D3a	D3 - D4	D4 - D4a	D4 - D5	D5 - D6	חלה האה
	S No.		1		1	2	60	4	5	9	7	00	•



2411MB

SUB WORK No. 1 Sub Head 4

WATER SUPPLY

AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT.

GURUGRAM.

S No.	Description	Amount
1	Providing, laying, jointing and testing pipes lines conforming uPVC pipe 10 Kg/Sq.cm Class-IV (IS: 4985) including cost of excavation etc. complete in all respects.	Amount
1.1	75 mm Pipe 18 Mtr @ Rs 575 RV	1440
1.2	10.070	Rs. 10,350-00
	50 mm Pipe 208 Mtr @ Rs. 430 CVV	Rs. 89,440.00
1.3	40 mm Pipe 176 Mtr @ Rs. 339- 4 60	Rs. 58,080.00 70400 _
2	Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.	20-0
2.1	50 mm 5 3-Each @ Rs. 3,500 6000	Rs. 10.500.00
	Providing and fixing Garden Hydrant (20mm) dia) 2 Nos. @ Rs. 2,500 each	70,000 — Rs. 10,000.00
4	Providing and fixing air release valve and scour valve	
	2 Nos. @ Rs. 2,000 each	20,000 — Rs. 4,000.00
5	Indication plate for valves, hydrant AV etc. 27Ny e Rg 100d reach	Rs. 30,000.00 27 000 -
6	Provision for carriage of materials and other unforeseen items	Rs. 48,000.00 20,000 ~
	TOTAL CO to SUB WORK - 1	Rs. 2,60,370.00
7,	Provision for cutting of nad, & male, good the same. LS	P 1 Rg 20,000
	good the same. Ls	Re 375800
		Kg 315 800/

Ф

										2	Flushing Water supply hydraulic calculation	upply hydraul	c calculation										
					ű.	Fixed Population	tion	Float	Floating Popula	ation	Flushing Water	Total water	Total water	Length	Propos	Velocity	head	self head	8	HL at Start HL at End	H. at End		Remarks
Line No	No	Total									Demand @ 20 lpcd for Fixed	demand ftr	demand ltr	of Pipe	ed line dia.	in m/sec	losse	losses	soų į			Residual	
	T.										Population and 10		(considering 6Hr cumning)						sel-l		H		
		Self	Bran	Total	Seff	Branch	Total	Seff	Branch	Total	Population							5	latoT				
2		673	2 4	10	9	7	10	G	10	44	12	13	14	16	16	44	18	19	20	23	24	25	26
J		SON	SON	NOS	SON			SON			CPD	CdT	E.PM	Mtr	MM	Mtrisec	Mtelfilte	Mtr	Mer	Mtr	Mtr	Mtr	
STP - F1	-1	0	34	34	0	1292	1292	0	1754.4	1754.4	43384.0	43384.0	120.5	18	75	0.545	0.00643	0.1158	0.1158	45.00	44.88	44.768	
F1 - F2		2	32	34	9/	1216	1292	103	1651.2	1754.4	43384.0	43384.0	120:5	43	50	1.227	0.04634	1.9927	2.1085	44.884	42.89	40.783	
F2 - F2a	a	-	30	31	38	1140	1178	52	1548	1599.6	39556.0	39556.0	109.9	40	40	1.748	0.11579	4.6316	6.7400	44.884	40.25	33.513	
F2 - F3		-	0	-	38	0	38	52	0	51.6	1276.0	1276.0	3.5	15	50	0.036	0.00007	0.0010	2.1095	42.892	42.89	40.781	
F3 - F3a	Ø	3	56	29	114	988	1102	155	1341.6	1496.4	37004.0	37004.0	102.8	54	40	1.635	0.10234	5.5262	7.6357	44.884	39.36	31.722	
F3 - F4		14	0	14	532	0	532	722	0	722.4	17864.0	17864.0	49.6	133	50	0.505	0.00896	1.1918	3.3013	42.891	41.70	38.397	
F4 - F5		12	0	12	458	0	456	619	0	619.2	15312.0	15312.0	42.5	82	40	0.677	0.01997	1.6375	1.7544	41.699	40.08	38.307	
F1-F4		-	0	-	38	0	38	52	0	51.6	1276.0	1276.0	3.5	17	50	0.036	0.00007	0.0011	0.1169	41.699	41.70	41.581	



sub work on D

Sewerage

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

No.	Description	Amount (RS)
1	Providing, laying, jointing and testing Sewer pipe lines (stoneware pipes class SP-1) including fittings, valves, Manholes & cost of excavation and connect to STP along with byepass to HSVP sewer line etc. complete in all respects.	Amount (10)
	1253	2150
	200 mm dia Average Depth upto 2 Mtr. 292 Mtr. @ Rs. 1,300	Rs. 3,79,600.00
2	Providing, laying, jointing and testing Sewer by-pass pipe lines 90 od uPVC pipe 10kg/sqcm including fittings, Manholes & cost of excavation etc. complete in all respects.	1,000
<u>U</u>	90 mm OD Average Depth upto 1.5 Mtr. 80 Mtr. @ Rs. 1,150	Rs. 92,000.00
3	Sewage Treatment Plant of 94 KL (considering future expansion) @ Rs. 17600/-KL /6000/-KL	Rs. 16,54,400.00
4	Provision for providing oblique junctions (L.S)	Rs. 96,000.00
5	Provision for temporary timbering etc. (L.S) Shortry, light & watchip	Rs. 80,000.00
6	Provision for carriage of material (L.S)	Rs. 80,000.00
7	Provision forproviding and fixing vent shaft at suitable places as per PH requirements. (L.S)	Rs. 1,00,000.00
8	Provision for making connection with HUDA sewer	Rs. 4,50,000.00
		92.60 -
	TOTAL CO to FINAL ABSTRACT OF QUANTITY	Rs. 26,32,000.00



0

HORKA,	Average REMARKS Depth									
VILLAGE D	Average Depth	Mtr	1.2350	1.2000	1.4325	1.2650	1.5375	1.3050	1.6000	
TATE OF	Invert Level Lower	Mtr	-0.920	-0.850	-1.045	-0.980	-1.130	-1.060	-1.170	
VENUE ES	Invert Level Upper	Mtr	-0.650	-0.650	-0.920	-0.650	-1.045	-0.650	-1.130	
THE RE	G Level	Mtr	0.450	0.450	0.450	0.450	0.450	0.450	0.450	
ACRES IN	G Level Upper	Mtr	0.450	0.450	0.450	0.450	0.450	0.450	0.450	
5625	Fall in Pipe (m)	Mtr.	0.27	0.20	0.13	0.33	60.0	0.41	0.04	
RING 2.9	Length	Mtr	54	40	25	99	17	82	80	80
MEASU	Check I for carryin g capacit		OK	OK	OK	OK	OK	OK	OK	
AN AREA	Design discharg e	LPS	11.59	11.59	11.59	11.59	11.59	11.59	11.59	
ONY ON A	Velocity	m/Sec	0.74	0.74	0.74	0.74	0.74	0.74	0.74	
COMMERCIAL COLONY ON AN AREA MEA. DESIGN STATEMENT OF SEWERAGE LINE	Gradiant Velocity Design Check Length discharg for e carryin g capacit y	1/	200	200	200	200	200	200	200	
OTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, DESIGN STATEMENT OF SEWERAGE LINE	Dia Proposed	mm	200	200	200	200	200	200	200	-06
F PLOTT	Total Waste water (peak=av erage*3)	LPS	0.21	0.07	0.35	1.12	1.55	0.84	2.39	2.39
T WORKS	Total Waste water (peak=aver age*3)	LPD	18208.8	9.6909	30348	97113.6	133531.2	72835.2	206366.4	206366.4
VELOPMEN	Daily waste water (80%) of water consumpti	LPD	9.6909	2023.2	10116	32371.2	44510.4	24278.4	68788.8	88788.8
ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PL	Total water consumpt ion	LPD	7587	2529	12645	40464	55638	30348	85986	
IDING IN	Plot	Plots	8	1	5	16	22	12	34	
PROV	Self	Main	3	-	-	16	-	12	0	ction
FOR		от _ т	S2	\$2	S3	S3	84	S4	STP	conne
STIMATI	Line No	o14 m	51	S1a	S2	S3a	S3	S4a	S4	BY Pass connection
	S S		-	2	3	4	2	9	7	

Icomm dia sewer line langua 292MBr 100 mm dia 0.1. Pithe from 379 to mais give = 8

STORM WATER DRAINAGE

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT.

GURUGRAM.

No. Description	Amount
Providing, laying, RCC pipe class NP-2 excavation, manholes etc. complete in all respects	000
a) 300 mm dia Average Depth upto 2 Mtr. 372 Mtr. @ Rs. 1,886	Rs. 7,02,336.00
Digo Provision for carriage of material Lis	Rg 30 00
2 Provision for lighting and watching andtemporary diversion of traffic	Rs. 2,00,000.00
3 Provision for road gullies & connecting pipe L.S.	Rs. 2,50,000.00
4 Provision for rainwater harvesting arrangements	7 01 85
Rs. 1,75,000.00 per acre 2.95625 Acre	Rs. 5,17,343.75
5 Provision for timbering & shoring (155), light & watcher ede. 1	S Rs. 1,50,000.00
6 Provision for making connection with HUDA (L/S)	Rs. 2,50,000.00
7 Provision for making connection with HUDA Mains.	-Rs. 3,50,000.00
TOTAL CO to FINAL ABSTRACT OF QUANTITY	Rs. 24,19,679.75
	21,10,00



ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

0

_			_		_						_
	REMARKS										
	INVERT LEVEL AT END	MTR		-0.559	-0.724	-0.927	-0.673	-0.530	-0.796	-0.987	
	INVERT LEVEL AT START	MTR.		-0.450	-0.450	-0.724	-0.450	-0.450	-0.673	-0.927	
	FALL	MTR		0.109	0.274	0.203	0.223	0.071	0.123	0.060	
	GROUND LEVEL AT END	MTR		0.450	0.450	0.450	0.450	0.450	0.450	0.450	
	GROUND LEVEL AT START	MTR		0.450	0.450	0.450	0.450	0.450	0.450	0.450	
	Check			Š	Š	ě	ð	ð	Ж	Š	
	VELOCITY DISCHARG Check GROUND E LEVEL AT CAPACITY START	IN M3/SEC		0.05	0.05	0.05	0.05	0.05	0.05	0.05	
SYSTEM	VELOCITY	M/SEC		0.731	0.731	0.731	0.731	0.731	0.731	0.731	
RAINAGE	SLOPE	1 IN		350	350	350	350	350	350	350	
WATERD	Pipe Dia	in mm	1	300	1306	1300	, ³ 309-	-300-	-396	-306-	
DESIGN OF STORM WATER DRAINAGE SYSTEM	DISCHARGE Pipe Dia SLOPE	IN M3/SEC		0.0013	0.0011	0.0037	0.0037	0.0019	0.0071	0.0123	
DESIC	DISCHARGE IN CUM/SEC RAIN INTENSITY =6.25mm	M3/HR		4.628	3.825	13.478	13.313	6.919	25.425	44.190	
	S	TOTAL		0.12	0.10	98.0	0.36	0.18	0.68	1.18	
	AREA IN HACTARES	BRANCH			00:00	0.23	00:00	00:00	0.54	1.04	
	AREA	SELF		0.12	0.10	0.13	0.36	0.18	0.14	0.14	
	SELF AREA TO BE DRAINED IN	SQM		1234	1020	1340	3550	1845	1385	1410	
	LENGTH	MTR		38.00	96.00	71.00	78.00	25.00	43.00	21.00	
	LINE NO.	FROM		D1 - D2	D2a - D2	D2 - D5	D3 - D4	D4a - D4	D4 - D5	D5-Outfall	
	NO NO	14		-	2	က	4	2	9	7	



372 MBW

ROAD WORK

STIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT.

Width in meter	length in meter	Metalled Portion	Area in Sqm.
5	70	5	350
6	220	6	1320
12	150	7	1050
24	150	14	2100
Total	-520- 590		48204470-

Add 5% for curves Total Area 506 4693.5

SNo	Description	4700		-
4	Dravinian for leveling 0 and 500	A	mount	
1	Provision for leveling & earth filling as per site condition		44343	8
	Approx 2,95625 Acre @ Rs. 80,000 per acre	/ R	s. 2,36,500. 00	5
2a	P/L 100mm thick (compacted) WBM with earth as per most Specification using 63-		10	1
2	40mm size stone aggregate. The rate is Inclusive of all labour, material & equipment		694800	
	etc. 5434 2190 1200 -		1356000	+
	_4700 Sqm @ Rs. 250 per sqm	Rs	.41,75,000.00	1
2b	Provision for making connection with HSVP (L/S) Kerb & channel			1
(3)	(590 NZT 5./. CURVED) = 1939M Dr Q Re 600/00	JW	743400	5
	8424	47	1356000-	
	4700 Sqm @ Rs. 250 per sqm	Rs	11,75,000.00	
26	25mm thick premix carpet with seal coat		11,27200	-
	5424 4700 Sqm @ Rs 300 per sqm	Rs	. 14,10,000.00	
_3-	Provision for guide map and other unforeseen item LS Indication book	140	1,000.00	
	L8,	تار	Rs. 80,000.00	
4	Provision for plot indicators LS & demarcation burging		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
	0 -		Rs. 80,000.00	
.5_	Provision for demarcating burgies L.S			1
1		-	Rs. 80,000.00	+
6	Provision for traffic arrangement L.S		50,00	
7-	Description for marking	R	s. 1 ,20,000.0 0)
-	Provision for making approach to each plot]
	Approx 2.95625 Acre @ Rs. 10,000 per acre		Do 20 502 50	1
-8°	Provision for carriage of material & unforeseen items L.S		Rs. 29,562.50	н.
	to the lottest carriage of material a uniorescent items. L.S		Rs. 80,000.00	
	TOTAL CO to FINAL ABSTRACT OF QUANTITY		S04826	1
	The second second of gonethin	Rs	. 44,66,062.50	

8414838/-

Roal Area = 4700 Sgm

Packing Asea = 12.40×6=74-4059m = 21-70x 6= 130-20 Sgm

= 30.00 1 6= 180.00 Sqm

= 21.62×15.70= 339-43 Sam

724.03 SPM Say 725. W SPM.

Total Road + lanking Area sobs +725 = 5790 Stu

47001 724 03 = 5424 83 Sq 501 5474 590

Page 18

SUB WORK No. 4 ROAD WORK ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-

SI. No.	Node	Road Width in Mtr.				
		5 Mtr. Wide	6 Mtr. Wide	9 Mtr. Wide	12 Mtr. Wide	24 Mtr. Wide
1	A					147.5
2	В		54.5			147.5
3	С		87			
4	D		73.15			
5	E				143.5	T
6	F	68.18				
	Total	68.18	214.65	0	143.5	147.5
	SAY	70	220	0	150	150



0

Street Lighting

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

SNO	Description	DIOTH GORGOTAM.	
			Amount
1	Providing stree	t lightning on roads as per standard specifications of HVPN.	720062
	Approx	2.95625 Acre @ Rs. 1,00,000 per acre	Rs. 2,95,625.00
		TOTAL CO to FINAL ABSTRACT OF QUANTITY	739063 Rs. 295.625.00



Plantation & Road side Trees/Horticulture

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

S No.	Description	Amount
1	Development of Green areas	Amount
а	Trenching the ordinary soil up to dept of 60 cm including removal and stacking of serviceable material and disposing of by spreading and leveling within a lead to 50m and making up the trenches area of proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure	
b	Rough dressing of roof area	
	Grassing with "Doob Grass" including watering and maintenance of lawns for 30 days till the grass a thick lawn, free weeds and fit for moving in rows 7.5m apart in either direction including provision for hedges and barbed wire fencing around park.	iluana
	Approx. 2.95625 Acres @ Rs. 80,000 / per Acres	Rs. 2,36,500.00
2	Planting Tree 6 M	NS. 2,30,300.00
а	Provision of trees, along 12.0 M wide(One Side) and 24 M wide (Both Side) roads at 12 Mtr intervals.	1360
	(150/12) +((150)x2/12)= 87 68 @ Rs. 750 per tree 1350 each	Rs. 51,000.00
	TOTAL CO to FINAL ABSTRACT OF QUANTITY	Rs. 2,87,500.00



0

MTC Charge and Resurfacing of Road

ESTIMATE FOR PROVIDING INTERNAL DEVELOPMENT WORKS OF PLOTTED COMMERCIAL COLONY ON AN AREA MEASURING 2.95625 ACRES IN THE REVENUE ESTATE OF VILLAGE DHORKA, SECTOR-95, DISTT. GURUGRAM.

S No.	Description	Amount
1	Provision for maintenance charge for Water supply, sewerage, storm water,	Amount
	Drainage, roads, street light, Hort, Etc. Complete including operation &	
	Establishment charges as per HSVP Norms after completion. 7.50,000	22171881-
	Area 2.95625 Acre @ Rs. 1-20-000 per acre	Rs. 3,54,750.00
2	Provision for resurfacing of roads after First five year of maintenance. Som mby 2	2/60000
	Total Road area 4700.00 Sqmt @ Rs. 400 per Sqmt	Rs_18,80,000.00
3	Provision for resurfacing of roads after 10 Years of MTC. Somm BM & 25mm)	The same of the sa
	Total Road area 5190 4700:00 Sqmt @ Rs. 120 bp per Sqmt	Rs. 5,64,000.00
	TOTAL CO to FINAL ABSTRACT OF QUANTITY	Rs. 27,98,750.00

5278250-00



