EXTERNAL DEVELOPMENT WORKS DESIGN AND COST ESTIMATES

FOR

APPROVAL OF SERVICE ESTIMATE OF PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATED 12/11/2021) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY COPIOUS REALTORS PVT. LTD.

DEVELOPED BY:

COPIOUS REALTORS PVT. LTD.

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT REVISED BUILDING PLAN FOR PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATED 12/11/2021) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY COPIOUS REALTORS PVT. LTD.

Gurgaon Manesar Urban Complex of Haryana State situated on N.H.- 8 Highway at a distance of 50 Kms from Delhi. Being the National Capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing residentials load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Govt. to establish various residential, and other infrastructure sectors in Gurgaon Manesar Urban Complex Being Developed by COPIOUS REALTORS PVT. LTD. IN PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATED 12/11/2021) IN SECTOR-89, GURUGRAM

WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Boosting station/ HSVP Water Supply. It has been proposed to construct the under ground tanks of capacity as per attached details, and at location for domestic purpose and for fire protection. The underground tanks will be fed from the tankers and HSVP supply, which will feed overhead tanks on the roof of the buildings. The water supply system has been designed as per Hazen Williams formula.

DESIGN

The scheme has been designed for population of approx 9150 persons for Commercial Building. The rate of water supply per head / day has been taken as (Staff = 45 liters, Visitor = 15 liters, Restaurant = 70Litre) as per HSVP norms in addition to above necessary provision of water for club and parks etc. have been taken into account for calculating the maximum quantity of water requirement.

PUMPING REQUIREMENTS

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any electricity failure.



UNDERGROUND STORATE TANK

Underground storage tank provision has been made in two compartments, which cater for the domestic as well as for fire fighting requirement. The water for fire water compartment shall overflow to the domestic compartment so that the water in the fire compartment also remain full & fresh and wilil not contaminate.

BOOSTING STATION

The boosting station is being planned near underground storage tank catering to above

DISTRIBUTION SYSTEM

The distribution system for this development has been designed to supply @ (Staff = 45 liters, Visitor=15Litre, Restaurant = 70Litre, Food court = 35liters) per head per day @ 3 times the average rate of flow on Hazen William formula. Necessary provisiton for laying CI/DI pipes confirming to relevant IS standard along with valves and special has been made in the project. The minimumterminal head at any point will be more than 50 so that it can be serve the B+G + 3 floors construction envisaged in the plan. Minimum pipe dia. for distribution is kept as 100

RISING MAIN

Raising main from HSVP water main or sector road to water work have also been proposed as provision has been made in this estimate.

SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to HSVP sewer main. The sewerage system has been marked on respective plans.

The sewer lines have been designed for three times average D.W.F. in relation to water supply demand. It has been assumed that about 80% of the domestic water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft/sec self cleaning velocity.

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



STORM WATER DRAINAGE

Since the Master Scheme has been proposed with pipe drain with rain water harvesting pit, we proposed to lay pipe drains with required number of catch basins for disposal of storm water to harvesting pit. The intensity of rain fall has been taken as 40 mm per hour. A minimum size of 400 mm dia pipe storm water pipe will be provided and designed as per Manning's formula.

FIRE

As per N.B.C. (National Building Code), fire tanks & required capacity pumps have been provided the plan as shown on the plan. Similarly irrigation pumps of required capacity provided as shown on the plan.

SPECIFICATIONS

The work will be carried out in accordance with the standard specifications of P.H. as laid down by the Haryana Government / HSVP. $\subseteq M$ MVY

ROADS

Cost of Road has been taken in the estimate.

STREETLIGHTING

Provision of lighting on surrounding area has been made.

HORTICULTURE

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

RATES

The estimate has been prepared based on the present market rates.



APPROVAL OF SERVICE ESTIMATE OF PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATED 12/11/2021) IN SECTOR-89, GURUGRAM

BEING DEVELOPED BY COPIOUS REALTORS PVT. LTD. cost

219.00

The total cost of the scheme, including cost of all services works out to be Rs 436.13 Lacs Including 3% contingencies and 49% departmental charges, price escalation & other unforseen charges. Cost of per Acres Rs 115.34 Lacs.

COPIOUS REALTORS PVT. LTD.

For Copious Realtors Pvt. Ltd

forised Signatory

(AUTHORIZED SIGNATORY)



		12/11/2021) IN SECTOR-89, GURU BEING DEVELOPED BY COPIOUS REALT	ORS	S PVT. LTD.	
	(I)	DAILY WATER REQUIREMENT			
A)		Commercial			
06	a)	Shops at Lower Ground Floor 6400 sqm @ 3 sqmt/ person	H	2202-2133	Persons
45		Shops at Ground Floor 7310 sqm @ 3 sqmt/ person	=	2448 -2437	Persons
2.5		Shops at Mezzanine Floor 680 sqm @ 9 sqmt/ person	=	110 -227	Persons
	d)	Shops at First Floor 6465 sqm @ 6 sqmt/ person	=	1073-1078	
the star	e)	Total	=	5834 -5874	Persons
		Shopkeepers @ 10% of Population	=	583 -587	Persons
		@ 45 LPCD	=	26235 26415	Liters/ Day
	(D)	Visitors @ 90% of Population	=	5250 5287	Persons
	y)	@ 15 LPCD	=	78750 79305	
	h)	2nd and 3rd floor (Food Court)			
		total area = 3695+765 sqm @ 1.8 sqm per person	=	234) 2478	person
		Visitors @ 90% of Population @ 70 LPCD	=	1474156100.00	Liters/ Da
		Restaurant staff @ 10 % of Population @ 45 LPCD	=	105 35 42	Liters/ Da
	i)	Auditorium (3rd & 4th 100)			
		Auditorium no. of seats - 782 nos. 826	=	826 782	person
		Visitors @ 15 LPCD	=	1239-11730.00	Liters/ Da
-		Staff (30 nos) @ 45 LPCD	=	1350.00	Liters/ Da
	j)	Water required for Kitchen & Laundry - L.S.	=	10000	Liters/day
	k)	Maintenance staff	=		Persons
		@ 45 LPCD	=		Liters/ Da
	1)	Back Wash Filters - L.S.	=		Liters/day
		Total water demand	=	004	Liters/da
	-	SAY	-	29) -301	KLD
B)		Horticulture & Road Work			
		Horticulture & Road Work Area under Green area 2295.32 sqmt	=	2295.32	SQMM
	-	@ 5 Ltrs./Sqmt	=	13772	Liters
	b)	Area under road + Paved area = 5641.63 sqm	=	1.39437	Acres

@ 25 K.L./Acre	=	34859.31	
Total Water Demand	=	48631	
Say	=	50000	Liters
The demand of horiculture & road work will met from recirculates water after treatment at S.T.P.			
Total water demand	=	291331 300625	Liters/day
Total water demand	=	291.331-300.625	KLD
Say	=	295 -310	KLD
Domestic water demand			
60% of AV/WD of (A)	=	174-79 9180375	Liters/day
Domestic water demand (KLD)	=	174.80-180.38	KLD
Or Say	=	175 180.00	KLD
Flushing water demand			
40% of AV/WD	=	116532 120250	Liters/day
Flushing water demand (KLD)	=	116.53 120.25	KLD
Or Say	=	120.00	KLD
Sewage Treatment Plant Capacity			
Average Sewerage Contribution Considering 80% of AV domestic water demand & 80% of AV/Flushing demand	=	-240000	Liter / Day
Sewage Treatment Plant Capacity (KLD)	=	248 -240.00	KLD
Or Say	=		
Sewage scheme			
Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	751000	
	=	100000	GPD
	=	-0.309	Cusces
		0.321	



í	APPROVAL OF SERVICE ESTIMATE OF PROPOSED BUILDING COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICE DATED 12/11/2021) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY COPIOUS REALTORS PVT. LTD	NCE	A Contraction of the second seco	
(I)	BOOSTING STATION			
	Approx. discharge of borewells @ 18 KL/hour and working 16 hours/d	ay		
(a)	Total domestic water demand = KLD	=	180.00	175
(b)	Number of borewells 35/(18 x 16)	=	.0.63	0.
	Add 10% extra	=	0.06	
	Total	=	-0.69	0.6
	Say	=	1.00	
	So, it is proposed to provide Two No. (1W+1S) (One working & Moreover, the water demand for horticulture purposes is to met frow water after treatment at STP and ultimate water supply is to provided	om re by HL	ecirculated	



\cap	SECTOR-89, GURUGRAM BEING DEVELOPED BY COPIOUS REALTORS	PVT	LTD.	
(1)	Pumping Machinery for Boosting Station			
	Gross working Head	=	18.0	Meters
	Average Fall in S.L.	=	5.0	Meters
	Depression Head	=	5.0	Meters
	Friction loss in main + Postive head	=	10.0	<u>Meters</u>
	Total	=	38.0	<u>Meters</u>
	Or Say	=	40.0	Meters
	,			
	Pump HP = $18000 \times 40 \times 100$ 60 x 60 x 75 x 70	=	3.81	H.P.
	Or Say	=	5.00	H.P.
	It is proposed to provide 2 Nos. of 5HP moters 40 Mtr head (1 Working & 1 standby)			
II)	Plumbing Machinery for Domestic & Flushing Tank			
	Total Domestic Water Demand	=	17479180375	Liters
a		=	174.8 180.38	KID
	Day Storage (Equal to one day)	=	174.8 180.00	KLD
	Or Say		175 100.0	RED
	Fire Tank provided as per N.B.C. Norms	=	435.00	KLD
	Hence it is proposed to construct an underground tank of treated water, 90 KLD as raw water, and 350 KLD for fire fi shown on plan i.e. Total 615 K.L.D.	ghtir	ng purpose as	per locati
II)	Boosting Machinery			
a	For Under Ground Tank			
	Total water demand (Domestic)	=	175-180.00	KLD
	L.P.M. for 6 hour pumping	=	486. 1500.00	LPM
_	Or Say	=	500.00	LPM
+	Gross Working Head			
	Suction lift	=	3.00	Meters
		=	5.00	Meters
	The second secon	=	9.50	Meters
		=	32.0	Meters
	Total	=		Meters
_	Or Say	=	50.0	Meters
	or day			
	Pump HP = $500 \times 50 \times 100$ 60 x 75 x 70	=	7.94	H.P.
	Or Say	=	10.00	H.P.
	It is proposed to provide 2 nos. of motors of 10 HP sets of 50 (One pumps working and One as standby for domestic su)0 LI	PM discharge a	t 50 M



Ŷ.		BEING DEVELOPED BY COPIOUS REAL			
b)		Flushing water supply requirement		291331	
-	(i)	AV water demand	=	-300625	liters/da
		Flushing water supply demand @40%	=	116532-120250	liters/da
	~ /	Flushing water demand (KLD)	=	116.53 120.25	KLD
		Or Say	=	120.00	KLD
		L.P.M. for @ 6 hour pumping			
			=	333.33	
		Say	=	350.00	LPM
		Pump HP = $350 \times 50 \times 100$	=	E EC	H.P.
		60 x 75 x 70	=	5.50	11.1 .
		60 x 75 x 70 Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera electric failure.	= s of 350 LP	7.50 M discharge at	H.P. 50 m hea
		Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera electric failure.	= s of 350 LP	7.50 M discharge at	H.P. 50 m hea
(V)		Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera	= s of 350 LP	7.50 M discharge at	H.P. 50 m hea
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera electric failure. Irrigation Pumping	= s of 350 LP	7.50 M discharge at	H.P. 50 m hea in case
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera electric failure.	s of 350 LP ator set of	7.50 M discharge at same capacity	H.P. 50 m hea in case Acres
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera electric failure. Irrigation Pumping	= s of 350 LP ator set of =	7.50 M discharge at same capacity 3.7812 15302.15 50000	H.P. 50 m hea in case Acres Sqmt LPD
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & genera electric failure. Irrigation Pumping Plot Area	= s of 350 LP rator set of = =	7.50 M discharge at same capacity 3.7812 15302.15 50000 104.17	H.P. 50 m hea in case Acres Sqmt LPD LPM
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & general electric failure. Irrigation Pumping Plot Area Water Demand of Horticulture + Road Area	= s of 350 LP ator set of = = =	7.50 M discharge at same capacity 3.7812 15302.15 50000 104.17 110	H.P. 50 m hea in case Acres Sqmt LPD LPM LPM
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & general electric failure. Irrigation Pumping Plot Area Water Demand of Horticulture + Road Area 8 Hours Pumping	= s of 350 LP ator set of = = =	7.50 M discharge at same capacity 3.7812 15302.15 50000 104.17 110 35	H.P. 50 m hea in case Acres Sqmt LPD LPM LPM Mtr.
V)	a)	Or Say It is proposed to provide 2 nos. of motors 7.5 HP sets (One pump working &one pump stand by & general electric failure. Irrigation Pumping Plot Area Water Demand of Horticulture + Road Area 8 Hours Pumping Say	= s of 350 LP rator set of = = = =	7.50 M discharge at same capacity 3.7812 15302.15 50000 104.17 110 35	H.P. 50 m hea in case Acres Sqmt LPD LPM LPM



(VI)	PUMPS FOR FIRE PROTECTION					
S. No.	Parameters	Location		Pump	sets	
110.			Water curtain	Jockey	Main	Diesel
1	Discharge in Ipm	Pump Room	2850 lpm	180 lpm	2850 lpm	2850 lpm
2	Head in metre		50	85	85	85
3	HP		40	5	70	70
4	Quantity in nos.		1	2	2	1
(VII)	GENERATING SETS					
S. No	Equipment	QTY		HP	Total HP	
1	Boosting Station	1		5	5.0	
2	For Jockey Pump	2		10	20.0	
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1		10+7.5+1.5	19.0	
	Total				44.0	1
	1				32.82	KW
	Disversity 0.8 & Power factor 0.8				51.29	KVA
	Or Say				62.50	KVA



APPROVAL OF SERVICE ESTIMATE OF PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATED 12/11/2021) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY COPIOUS REALTORS PVT. LTD. FINAL ABSTRACT OF COST Amount Sub (Rs.) in Description Work Lacs 241.77 313.2 Water Supply Scheme 1 50.94 22. Sewerage Scheme П 26.29 Storm Water Drainage 111 59.59 IV Road 5.80 Street Lighting V 5.86 6. Horticulture VI Maintenance Charges for 10 Years including Resurfacing of Roads after 1st 5 year & IInd 5 years of 45.88 VII mtc 436.13 Total (in Lacs) 115.34 Cost of Per Acre (in Lacs) COPIOUS REALTORS PVT. LTD. (AUTHORIZED SIGNATORY) Checked for service estimate only Ke condid . Executive Engineer-I Executive Engineer-1 (EDC) W/S Division, GMDA Gurugram Metropolitan Development Authority Gurugram Gurugram ngineer-V Executive Engineer-III Executive Sew. Division No.(1 Drainage Division, GMDA, GMDA, Gurugran 81 Gurugram Checked subject to comments in forwarding letter No.1/5079 2022 Dt. 30.1.09 2022 and notes attached with the estimate Chief Engineer, (Infra-II), GMDA ONSU Gurugram Ś Nagar, New Director Town & Country Page 11 V consulting Harvana,

	MEASURING 3.78125 ACRES (LICENCE NO BEING DEVELOPED BY	COPIOUS REALT	DRS PVT. LT	<u>D.</u>	Sa, GUNUGRA		
Sub W	ork No.I			-	Water Supply		
		Amount					
Sub Head	Des	scription				(Rs.). In lacs	
1	Head Works					45.58	81.65
2	Pumping Machinery					14.20	17.65
3	Rising Main					8.21	12:18
4	Distribution System					23.06	43.63
5	Fire Fighting				148.5	8 141.48	152 4
6	Irrigation					9.25	9.51
	Say (In Lacs)				313.0	241.77	210



	MEASURING 3.78125 ACRES (LICENCE NO. 93 BEING DEVELOPED BY COR	PIOUS REAL TO	2021) I	VT I TD	69, GURUGRA	111		
0	BEING DEVELOI ED DI OGI	1000 REALLY		11. 11. 10.				
				-				
Sub W	ork No-1				Water Supply			
	ead No-01				Head Works			-
Jub H						AMOUNT		
SI No	DESCRIPTION	Qty		Rate		(In Lacs.)		
	Description Description and with all sectors			71000	N	7.40		
	Providing Boosting arrangement with chamber	2		7,4000	Rs.	1.60	-	
1	by pumps (5.00 HP) at 40 M head, 2 Nos. @ Rs. 50,000/- each			00000	13.	1.00		
			_					-
	Providing Boosting arrangement by pumps 10			8,40,00	101	8.4		
0	HP, capacity 500 LPM at 50 M head, 2 Nos.	2	x	150000	Rs.	-3.00	-	
2	each & @ Rs. 150,000/- each (For Domestic)	-2-	X	100000	13.	5.00		
	complete with panel, foundation etc.							
	Provision for carriage of materials and other					0.50	-	
3	unforseen items (LS)				Rs.	0.50		
-	Construction of U.G. tanks of total cap, 615 KL			1000	- D-	24.60	0	
4	@ Rs. 4000KL GOOD Pu KL	615	×	-4000	* Rs.	24.60		1
	TOTAL				Rs.	29.70	53.	20
	Add 3% contingencies				Rs.	0.89	1.	60
	TOTAL	Rs.	-30.59	54.	80			
	Add 49% Department charges, Price Esclation & c	Rs.	14.99	26.	85			
	,	1		3				
	TOTAL COST				Rs.	45.58	81.	65
	TOTAL COST				KS.	-40.00	21.	0,



	PPROVAL OF SERVICE ESTIMATE OF PROPOSED MEASURING 3.78125 ACRES (LICENCE NO. 93 I	DATED 12/11/	2021) IN	SECTOR-	89, GURUGRA	M	
5	BEING DEVELOPED BY COP	PIOUS REALT	ORS PV	'T. LTD.			
Sub We	ork No-1				Water Supply		
20000000	ork No-02				Pumping Mad	hinery	
Sub W				1		AMOUNT	
SI No	DESCRIPTION	Qty		Rate		(In Lacs.)	
	Provision for diesel engine genset each for						
1	standby arrangements for T.W. of booster	1	x	650000	Rs.	6.50	-
30	pump complete with gear head arrangement				A1600.0		
	1 No. 62.5 KVA @ 650000 /					1.00	
2	Providing for disinfection plant complete. 1 No. @ 50,000/-	1	х	50000	Rs.	-0.50	
	Provision for making foundations and erection	132				1.00	> _
3	of Pumping machinery @ Rs. 50000/	1	х	50000	Rs.	0.50	
	Description for since welves and apacials inside					1.00	-
4	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.) for Rs. 50000/	1	×	50000	Rs.	0.50	
	Provision for electric services connection					1.00	
5	including electric fitting for tube wells &	1	х	-75000	Rs.	0.75	
5	boosting chamber etc. 1 set (L.S.) Rs.		~				
	100000/					1.00	
6	Provision for carriage of material and unforeseen item. L.S. for Building Rs. 50000/	1	×	50000	Rs.	_0.50	
	TOTAL				Rs.	11.509.25	
						-	
	Add 3% contingencies				Rs.		
	TOTAL				Rs.	11.85 .9.53	
	Add 49% Department charges, Price Esclation & o	Add 49% Department charges, Price Esclation & other unforseen Charges.					
	TOTAL COST				Rs.	17.65 14.20	



0	PPROVAL OF SERVICE ESTIMATE OF PROPOSED MEASURING 3.78125 ACRES (LICENCE NO. 93 D	DATED 12/11	(2021) IN	SECTOR-	89, GURUGRA	M	
0	BEING DEVELOPED BY COP	IOUS REALT	ORS P	/T. LTD			
Sub M/	ork No-1				Water Supply	100	
					Rising Main fr	OT HEVE	BOX
Sub W	ork No-03				Rising wain in		
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)	
	10					(III Laus)	
	Providing, laying, jointing & testing 80-mm dia.			1475		2.5	8
101	G.I. pipe lines including cost of excavation	175	@	1000	Rs.	4.75	6
V	complete in all respects.						
	Providing and fixing 80 mm dia. sluice valves			25050	De	0.2)	-
2	including cost of surface boxes and masonary chambers etc., complete in all respects.	1	@	75000	Rs.	_0.75	
3	Providing and Fixing indicating plates for sluice valves, Air valves & fire hydrant.	1	@	10000	Z Rs.	0.10	
	Provision for carriage of material & other	1	0	-50000	Rs.	0.50	2
4	foreseen items etc., L.S.		@		13.		
5	Provision for making connection with HUDA main (L.S.) 1 job1 complete in all respect	1	@	175000	Rs.	34.75	
	Provision for cutting road and making good the		0	50000	- Rs.	20.50	/
6	same (L.S.) 1 job	1	@	,50000	KS.	1.0	p'
	TOTAL				Rs.	5.35	7.93
	Add 3% contingencies				Rs.	0.16	0.25
	TOTAL				Rs.	5.51	8.18
-			25-31			and a second	4.00
	Add 49% Department charges, Price Esclation & o	ther unforse	en Char	ges.	Rs.	2.70	40
	TOTAL COST				Rs.	8.21	12-18
				1			
Materia	al Statement and design statement of HUDA Rising	Mains					
				Dia. in	Length in		
S. No.	Name of line	ame of line mm		municipal	to U.G.T.		
				00	17	5	
1	Municiple Main To UGT			80	17	0	· · · · · · · · · · · · · · · · · · ·



0.000	PPROVAL OF SERVICE ESTIMATE OF PROPOSED MEASURING 3.78125 ACRES (LICENCE NO. 93 I	DATED 12/11	/2021) IN	SECTOR-	89, GURUGRA	M		
5	BEING DEVELOPED BY COP	PIOUS REAL	FORS PV	<u>T. LTD.</u>				
S 1965								
			-					
					Water Supply		-	
ub We	ork No-1							
ub He	ad No-04				Distribution s	ystem		
						AMOUNT		
SINO	DESCRIPTION	Qty		Rate		(In Lacs)		
	DE					(III Lacs)		
	Providing, laying, jointing & testing GI pipes							1
1	including cost of excavation complete as per							
610	ISI marked.							
1.1	40 mm I/D	200	@	450	Rs.	>0.90		
100.00	50 mm I/D	300	0	575		1.73	-	
		300	@	765				
time for lover a	65 mm I/D			825		0.83	-	-
1.0	80 mm I/D	100	@		0.02E3		25	20
1.1	100 mm I/D 90+815 -		1)@	-975		0.18	0.1	20
1.2	150 mm I/D	15	@	4225	1875 Hs.	0.10	0.1	-0
	Providing and Fixing sluice valves including							
2	cost of brick masonry chamber complete in all							
20	respect.							
				250	000			-
	100	5	@	8000	Rs.	-0.40	1.2	5
2.1	100 mm I/D	1	@	-10000	i di single single	0.10	0.3	5
2.2	150 mm I/D		(C)	300	00	0.10	~ >	T
	Providing and Fixing air valves and scour							1
3	valves including cost of brick masonry	1	@	-10000	Rs.	_0.10	01	5
0	chamber complete.			150	00			1
								1
4	Providing and Fixing indicating plates for sluice	5	@	1000	Rs.	0.05	1.0.	5
7	valves							-
	Provision for carriage of material & other			50000	Rs.	-0.50	1.0	0
5	foreseen items etc., (L.S). 1 Job including	1	@	50000	1.5.	0.50		
	cutting of raod and making the same.				-	1	00.	1.2
	TOTAL				Rs.	1 5.03	28.	1
	Add 3% contingencies				Rs.	0.45	0-	35
	TOTAL				Rs.	45.48	29.5	28
							11.2	-
	Add 49% Department charges, Price Esclation & c	Rs.	7.58	.1-	1			
	TOTAL COST				Rs.	-23.06	-43.	63



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- <u>A</u>	APPROVAL OF SERVICE ESTIMATE OF PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATED 12/11/2021) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY COPIOUS REALTORS PVT. LTD.									
S. No.	Description	300 mm	200 mm	150 mm	100 mm	/ 00 80 mm	102 40mm	/N -65-	/ 100 50 mm	
(A)	Domestic									
1	UGT-Domestic water supply line	#	-	15	0	-		-	-	
2	Domestic water supply piping in basement ceiling	-	-	-	400	50	100	150	150	
	TOTAL	0	0	15	400	50	100	150	150	
(A)	Flushing									
1	STP-Flushing water supply line		-	0	15	-	-	-	-	
2	Flushing water supply piping in basement ceiling	-	-	-	400	50	100	150	150	
	TOTAL	0	0	0	415	50	100	150	150	
	GRAND TOTAL	0	0	15	815	100	200	300	300	





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1		Remarks	el= +300 Level=293 J Head mts Add d=3.0 mts	ad=5.0 ad=3.0 mtrs =4.0 mtrs =350	
		ë	40.00 Cround Level= +300 U.G.T. Bed Level= 293 Add Building Head B+0+3=33 mtrs Suction Head=3.0 mtrs	Delivery Head=5.0 Positive Head=3.0 mtrs Friction Lose=4.0 mtrs Head Level=350	
11707	Ľ	TH (Mts)	40,00	39,97	30.21
111/21	Level in start	GL (Mts)	300.00	300.00	300.00
AIED	Fe	HL (Mts)	340.00	339.97	330.21
0. 33 L		Loss of head in the line (mts)		0.0287	9.7631
		Lose of Loss of Head in head in 1000 M the line (mts) (mts)	E.	0.1915	1.3466
עבס (רור		Velocity mt/sec	÷	0.75	0.75
104 67		Dia of Pipe (mm)	e	150	100
IGN NDI		Peak Demand @ 3 time of AVMD	553.73	553.73	553.73
RAULIC DES		Domestic Water demand @ commercial 60% KLD	184.58	184.58	184.58
Y - HYDF	AV/WD	Ϋ́	307,625	307.625	307.625
AF FROMAL OF SERVICE ESTIMATE OF FROMOSED BUILDING FEAN OF COMMENCIAL COCONT AREA IMEASORING 3.78129 ACKES (ENCENCE NO. 33 DATED 12/11/2021) IN SECTOR-03, DATED 12/11/2021, DATED 12/11/2		Shop & Audi Visitor & Backwash @ 15 LPCD	5991 persons = 101035 litres	5991 persons = 101035 litres	
DOMEST	Additional	Food & Bewerage Staff @ 35 LPCD & Restaurant @ 70 LPCD	2230 persons = 156100 litre	2230 persons = 156100 litre	×
		Shopkeepers ,Food Court, Restaurant, and audi Staff @ 45LPCD	Staff =950 person =42750 litre	Staff =950 person =42750 litre	
LINOLOGED		Shop & Audi Visitor @ 15 LPCD	,		5991 persons = 101035 litres
	Self	Food & Bewerage Staff @ 35 LPCD & Restaurant @ 70 LPCD	5		2230 persons = 156100 litre
		Length In shopkeep Bewerag mts Court Staff LPCD & Court Staff LPCD & exsternarie 0.45LPCD Restauran	¢	•	Staff =950 person =42750 litre
		Length in mts	E.	15	725
ALLIVAAL		Ref of line	AT - UGT	UGT-WS1	Ring (WS1 - WS13)
		s, so	÷	7	т >



1010101	-	Remarks	Ground Level= +300 U.G.T. Bed Level= 293 Add Building Head B+G+3=33 mtrs Add Suction Head=3.0 mtrs Delivery Head=5.0 mtrs Friction Lose=4.0 mtrs	Head Level=350	
C 111 /1 70		TH (Mts)	40.00 Suction Positive Positi	39.90 39.90	35.22
4	Level in start	GL (Mts) (300.00	300.00
	Lev	HL (Mts)	340.00 300.00	339,90	335.22
	Loss of	the line (mts)	ř.	0.0970	4.6867
	Lose of	Head in 1000 M (mts)		0.6464	0.6464
		Velocity mt/sec	0.75	0.75	0.75
		Dia of Pipe (mm)		100	100
IGN		Peak Demand @ 3 time of AV/WD	369.15	369.15	369.15
AULIC DES	Flushing	Water demand @ 40% commercial K.L.D.	123.050	123.050	123.050
/ - HYDR	AV/WD	KLD	307.625	307,625	307.625
FLUSHING WATER SUPPLY - HYDRAULIC DESIGN	1	Shop & Audi Visitor & Backwash @ 15 LPCD	5991 persons = 101035 litres	5991 persons = 101035 litres	
FLUSHIN	Additional	Food & Bewerage Staff@ 35 LPCD & Restaurant@ 70 LPCD	2230 persons = 156100 litre	2230 persons = 156100 litre	
		Shopkeepers ,Food Court, Restaurant, and audi Staff @ 45LPCD	Staff =950 person =42750 litre	Staff =950 person =42750 litre	x
		Shop & Audi Visitor @ 15 LPCD	E	2	5991 persons = 101035 litres
	Self	Food & Bewerage Staff @ 35 LPCD & Restaurant @ 70 LPCD	×0	2	2230 persons = 156100 litre
		Shopkeep ers + Food Court Staff @ 45LPCD	316	a	Staff =950 person =42750 litre
	Length in	ats		ţ,	725
	Ref of line		AT S.T.P.	STP-FWS1	Ring (FWS1- FWS13)
l F	ŝ	° Z	-	N	т <u>т</u>



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Sub W	/ork No-1				Water Supp	
	/ork No-05				Fire fighting	the second se
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs.)
1	Providing, laying jointing & testing M.S. pipe lines for rising main including cost of fitting, valves, connection etc., complete in all			1875		
1	respects.	755	@	1150.00	Rs.	8.68 /4
/	150 mm I/D for Ring Main 100 mm I/D for Tanker Inlet	20	@	1475 -950.00	and the second se	0.19
1		35	@	1200 900.00		0.32
	80 mm I/D for Yard Hydarnt pipe Providing & fixing valve including cost of	50		120	The.	
2	surface boxes and masonry chambers etc. complete in all respects			2050		
	- 150 mm dia.	3	@	14000.00		0.42 0
	- 100 mm dia.	1	@	10000.00		0.10-0
	- 80 mm dia.	16	@		10000	1.28
3	Providing and fixing fire Hydrant with accessories	16	@	10000.00		1.60
4	Providing Fire Diesel pumps of 70 HP, capacity 2850 LPM at 70 M head, 1 Nos. each & @ Rs. 22,60,000/- each complete with panel, foundation etc.	1	@	2050000.00		20. w _22.50
5	Providing Fire Main pumps of 70 HP, capacity 2850 LPM at 70 M head, 1 Nos. each & @ Rs. 17,00,000/- each complete with panel, foundation etc.	2	@	1700000.00		34.00
6	Providing Fire Jockey pumps of 5 HP, capacity 180 LPM at 70 M head, 1 Nos. each & @ Rs. 5,00,000/- each complete with panel, foundation etc.	2	@	500000.00		10.00
7	Providing Water curtain pumps of 40 HP, capacity 2850 LPM at 50 M head, 1 Nos. each & @ Rs. 12,50,000/- each complete with panel, foundation etc.	1	@	1250000.00		12.50
8	Providing for carriage of material (L.S.) 1 jobs	1	@	50000.00	Rs.	0.50
9	Providing and fixing Indicating plate	10	@	1000.00) Rs.	0.10
	TOTAL			96.82		92.19
	Add 3% contingencies			2.90	Rs.	2.77 -
	TOTAL			99.72	Rs.	94.95/0
	Add 49% Department charges, Price Esclatio	on & other	unforser	en Charges. 68	86 Rs.	46.53 5
	TOTAL COST	And the second second		148.5	Rs.	141.48/
		[T		
	Material Statement of	Fire ring -	– MS – 15	0mm dia	*	
S. No.	Location	200 mm dia pipe			80 mm dia pipe	Fire Hydrant
1	UGT to Fire Ring	-	15		-	-
2	Fire Ring Pipe	-	700	-	NOW	-
3	Tanker inlet connection	-		20	CONSULTA	N -
4	Fire Brigade 4 way	-	20	- /*	Tom ima	P) -
	Fire Brigade 2 way	-	20	- 10	No the Ast	*1 -

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6	Yard Hydrants = 16 Nos. x 2 Meters	-	-	-	35	16
	Total	0	755	20	35	16
-	Fire Hydrant System					
1	Valves 150mm dia			3	Nos.	
2	Valves 100mm dia			1	No.	
3	Valves 80mm dia			16	Nos.	
4	Fire Hydrants			16	Nos.	
5	Fire Brigade Connections 4 Way			1	No.	
6	Fire Brigade Connections 2 Way			1	No.	



Sub W	ork No-1				Water Sup	ply
Sub W	ork No-06				Irrigation	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing and testing uPVC pipe line confirming to I.S 4985 including cost of excavation etc., complete in all respects.					
	20 mm O/D for Garden Hydrants	60	@	200	Rs.	0.12
	75 mm O/D UPVC Pipe for Ring Main	725	@	550	Rs.	3.99
	90 mm O/D from STP to Ring Main	25	@	800_650	Rs.	0.16
2	Providing and fixing Irrigation hydrant valve complete in all respect.	30	@	2000	Rs.	0.60
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 20 mm	30	@	250	Rs.	0.08
5	Providing & fixing sluice valvle compelte with chamber.			250		0.25
	- 100 mm dia.	1	@	8000	Rs.	0.08
6	Providing and fixing Irrigation pump 2 nos., 1.0 HP, 50 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	25000	Rs.	0.50
	TOTAL				Rs.	6.03
	Add 3% contingencies				Rs.	0.18
	TOTAL				Rs.	6.21
- 10	Add 49% Department charges, Price Esclatio	on & othe	r unforse	en Charges.	Rs.	3.04
	TOTAL COST			1	Rs.	-9.25
	Material statement of Irrigation System					
S. No.	Line Name	90 mm	75 mm OD	50 mm OD	20 mm OD	Irrigation Hydrants
1	Pump Room to G1	25				
2	Irrigation Ring	0	725			
3	GARDEN HYDRANT (30 Nos x 2 M)				60	30
	Total	25	725	0	60	30



Sub W	/ork No-II				Sewerage S	Scheme
SI No		Qty		Rate		AMOUNT (In Lacs)
1	Providing, jointing, cutting and testing S.W.R. PVC pipe including all bends fitting, clamps etc. Complete in all respect running in basement ceiling.			2276		13.57
	200mm dia 596	10-	0	900.00	Rs.	0.09
	150mm dia	-386	0	2430 700.00		2.70
	100mm dia	200	@	-500.00	Rs.	1.00
2	Provision for lighting and watching L.S	1	@	_50000.00	Rs.	-0.50
3	Provision for timbering and shuttering L.S.	1	@	50000.00	Rs.	0.50
4	Provision of 150 mm dia liine form STP to HSVP main by pumping	50	@	-1000.00	Rs.	0.50
5	Providing Boosting arrangement by pumps 7.5 HP, capacity 350 LPM at 50 M head, 2 Nos. each & @ Rs. 100,000/- each (For Flushing) complete with panel, foundation etc.	2	@	10.0000.00	Rs.	2.00
6	Provision for making STP (KLD) by ed on Six	240-	@	40 10000.00	Rs.	-24.00
7	Provision for carriage of maternal (L.S.) 735 CI	1	0	40000.00	Rs.	0.40-
8	Provision of cutting road & making it good as same in original condition - 1 job	1	@	50000.00	Rs.	0.50-
9	Providing Sewage with HSVP Comment	1	@	100000.00	Rs.	1.00
	TOTAL Inch Change			86.16	Rs.	-33.19
	Add 3% contingencies			2.58	Rs.	1.00
	TOTAL			88.70	Rs.	34.19
	Add 49% Department charges, price esclation, other for unforseen charges.			.43, 48	Rs.	16:75
	TOTAL COST			122122	Rs.	50.94

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3.	Name of	Length of Pipe in M										
No.	Pipe Line	500 mm	450 mm	400 mm	350 mm	100 mm 150 mm	200 mm					
1	Sewer line running in basement ceiling	120	-		-	_200386	586					
2	Upto-STP		-	-	-	-	10					
	Total					-200 - 386	10					



<u>C</u>	OLONY AREA MEASURING 3.78125 ACRES (LI SECTOR-89, GUR		J. 9	3 DATED	12/1	1/2021) IN	
7	BEING DEVELOPED BY COPIOUS		RS F	VT. LTD.	_		
Sub	Work No-III		Sto	orm water	drai	n	
S. No.	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)	
1	Providing, lowering, laying and jointing R.C.C NP-3 pipes and specials into trenches including manholes, chambers etc., excavation, back filling and disposal of surplus earth complete in			2950			
	400 mm I/D Avg. depth upto 2.0 M.	652	@	1350	Rs.	8.80	19.23
	450 mm I/D Avg. depth upto 2.0 M.	10	@	1550	Rs.	0.16	0:34
2	Provision for Road Gullies L.S.	LS		3400	Rs.	0.50	1.00
3	Provision for lighting and watching	LS			Rs.	0.50 -	1.00
4	Provision for timbering and shoring L.S.	LS			Rs.	0.50	1.00
5	Provision for carriage of material & other foreseen items etc., L.S.	LS			Rs.	0.50	1.00
6	Provision for Rain water harvesting arrangements for 3.7812 Acres @ 1.50 Lac / Acres.	3.7812 4 Nor	@	-150000	Rs.	5.67	18.00
7	Provision for temporary connection with HUDA	2		ear	Rs.	-0.50-	3.00
	TOTAL	·			Rs.	17.13	44.57
	Add 3% contingencies				Rs.	0.51	1.33
	TOTAL				Rs.	17.64	45.90
	Add 49% Department charges, price esclation charges.	, other for	unt	forseen	Rs.	8.64	22.49
	TOTAL				Rs.	26.29	68.40



2	OLONY AREA MEASURING 3.78125 ACRES (LICENCE NO. 93 DATE) SECTOR-89, GURUGRAM			
5	BEING DEVELOPED BY COPIOUS REALTORS PVT. LTI	D.		
	STORM WATER DRAIN	1 1		
-		400mm dia	450mm dia	500mm
S. No	Name of Drain	RCC pipe	pipe	dia RCC pipe
	Rain Water Harvesting - 1			pipe
1	D1-D2	16		
2	D2-D3	30		
3	D3-D4	30		
4	D4-D5	22		
5	D5-D6	5		
6	D6- RWH1	5		
7	RWH1-D7	5		
4	Rain Water Harvesting - 2	16		
1	D7-D8 D8-D9	22		
2	D9-D10	30		
4	D10-D11	30		
5	D11-D12	9		
6	D12-RWH2	5		
7	RWH2-D13	5		
	Rain Water Harvesting - 3			
1	D13-D14	30		
2	D14-D15	30		
3	D15-D16	22		
4	D16-D17	30		
5	D17-D18	10		
6	D18-RWH3	5		
7	RWH3-D19	5	1	
	Rain Water Harvesting - 4			
	D19-D20	5		
2	D20-D21	18		
3	D21-D22	18		
4	D22-D23	30		
5	D23-D24	17		
6	D24-D25	20		
7	D25-D26	22		
8	D27-D28	20		
9	D28-D29	30		
	D29-D30	16		
1.6.6.6	D30-D31	27		
	D31-D26	8		
_	D26-D32	0	5	
	D32-RWH4	0	5	
15	RWH4-OFLOW Rain Water Harvesting - 5	0		
1	D33-D34	10		
2	D33-D34 D34-D35	26	-	
2	D35-D36	8		
4	D35-D36 D36-RWH5	5		
5	RWH5-OFLOW	5		
0	TOTAL	652	10	0



						10. <u>119</u> 0.000.000.00											_
				N-261 - 26	V230 2-35		Vater Dra	0.027	7/1	1/2		25500		_		_	
0	-			ulations are base	1	Discharge			Design	5 ⁻⁷⁻ in F.	2.5 Syst					Level at Er	
si, No.	Name of Line	Length in Motor		t Area in sqmt	- Area	in Cusec (1 Acre = 1	Proposed dia of	Velocity (mt/sec)	Capacity of Drain	Gradient	Drop (Mtr.)	G.L	ivel at Sta	Depth	G.L	I.L.	Dep
	1,0110		Self	Additional	(Sqmt)	Cusec) RAIN WATER	pipe (mm) R HARVES	TING-1	(Cusecs)		- S - 24	(Mtr.)	(Mtr.)	(Mtr.)	(Mtr.)	(Mtr.)	(Mti
1	D1-D2		370	0	370	0.091	400	0.75	1.680	1:350	0.05	0.30	-0.60	0.90	0.30	-0.65	0.9
2	D2-D3	16	693	370	1063	0.263	400	0.75	1.680	1:350	0.09	0.30	-0.65	0.95	0.30	-0.73	1.0
3	D3-D4	30	693	1063	1756	0.434	400	0.75	1.680	1:350	0.09	0.30	-0.73	1.03	0.30	-0.82	1.1
4	D4-D5	30	508	1756	2265	0.560	400	0.75	1.680	1:350	0.05	0.30	-0.82	1.12	0:30	-0.88	1.1
5	D5-D6	22	116	2265	2380	0.588	400	0.75	1.680	1:350	0.01	0.30	-0.88	1,18	0.30	-0.89	1.1
6	D5-RWH-1	5	116	2380	2496	0.617	400	0.75	1.680	1;350	0.01	0.30	-0.89	1.19	0,30	-0.91	1.2
7	RWH-1-D7	5	116	2490	2611	0.645	400	0.75	1.680	1:350	0.01	0.30	-0.60	0,90	0.30	-0.61	0.9
-		5				RAIN WATER	RHARVES	TING-2									
1	D7-D8	10	370	2611	2981	0.737	400	0.75	1.680	1:350	0.05	0.30	-8,61	0.91	0.30	-0.66	0.9
2	D8-D9	16	508	2981	3490	0.862	400	0.75	1.680	1:350	0.06	0.30	-0.66	0,96	0.30	-0.72	1.0
3	D9-D10	22	693	3490	4183	1.034	400	0.75	1.680	1:350	0.09	0.30	-0.72	1.02	0.30	-0.81	1.1
4	D10-D11	30	693	4183	4876	1.205	400	0.75	1.680	1.350	0.09	0.30	-0.81	1.11	0.30	-0.89	1
5	D11-D12		208	4876	5084	1.256	400	0.75	1.660	1:350	0.03	0.30	-0.89	1,19	0.30	-0.92	1.3
6	D12-RWH-2	9	116	5084	5200	1.285	400	0.75	1,680	1:350	0.01	0,30	-0.92	1.22	0.00	-0.93	0.
7	RWH-2-D13	5	116	5200	5315	1,313	400	0.75	1.680	1:350	0.01	0.30	-0.60	0.90	0.00	-0.61	0.
					1	RAIN WATER	RHARVES	TING-3									
1	D13-D14	30	693	5315	6009	1.485	400	0.75	1.680	1:350	0.09	0.30	-0.61	0.91	0.30	+0.70	1.
2	D14-D15	1000	693	6009	6702	1.656	450	0.75	3.050	1.500	0.05	0.30	-0.70	1.00	0.30	-0.76	:10
3	D15-D16	30	508	6702	7210	1.782	460	0.75	3.050	1:500	0.04	0.30	-0.76	1.06	0.30	-0.60	1.
4	D16-D17	22	693	7210	7904	1.953	450	0.75	3.050	1:500	0.06	0.30	-0.80	1.10	0.30	-0.85	1.
	140.020.020.0	30	17.325(1)	7904	8135	2.010	450	0.75	3.050	1:500	0.02	0.30	-0.86	1.16	0.30	-0.65	1
5	D17-D18	10	231		-	2.039	450	0.75	3.050	1:500	0.01	0.30	-0.88	1.18	0.00	-0.69	0.0
6	D18-RWH-3	5	116	8135	8250	2.039	450	0.75	3.050	1:500	0.01	0.30	-0.60	0.90	0.00	-0.61	0.
7	RWH-3-D19	5	116	8250		RAIN WATE			3.000	1.000	0.01	10.50	(telev	4.65		112120	0.000
3	D19-D20		116	8366	8481	2.090	450	0.75	3 050	1:500	0.01	0.30	-0.61	0.91	0.30	-0.62	0
1		5	1000		8897	2.199	450	0.75	3.050	1:500	0.04	0.30	-0.62	0.92	0.30	-0.66	0
2	D20-D21	18	416	8481		ALC: NOT	450	0.75	3.050	1:500	0.04	0.30	-0.66	0.96	0.30	-0.69	0.
3	D21-D22	18	416	8897	9313	2.301	0.000	and and	to an it with the								
4	D22-D23	30	693	9313	10007	2.473	450	0,75	3.050	1:500	0.06	0.30	-0.69	0.99	0.30	-0.75	1.
5	D23-D24	17	393	10007	10400	2.570	450	0.75	3,050	1:500	0.03	0.30	-0.75	1.05	0.30	-0.79	1.
6	D24-D25	20	462	10400	10862	2.684	450	0.75	3.050	1;500	0.04	0,30	-0.79	1.09	0.30	-0.83	1.
7	D25-D26	22	508	10662	11370	2,810	450	0.75	3.050	1:500	0.04	0.30	-0.83	1.13	0.30	-0.87	1
8	D27-D28	20	462		462	0,114	400	0.75	1.680	1:350	0.06	0.30	-0.60	0.90	0.30	-0.65	0
9	D28-D29	30	693	462	1156	0.285	400	0.75	1,680	1:350	0.09	0.30	-0,66	0.95	0.30	-0.74	1
10	D29-D30	16	370	1156	1525	0.377	400	0.75	1,680	1:350	0.05	0.30	-0.74	1.04	0.30	-0.79	1
11	D30-D31	28256	624	1525	2149	0,531	400	0.75	1,680	1:350	0.08	0.30	-0,79	1.09	0.30	-0.87	1
12	D31-D26	27	185	2149	2334	0.577	400	0.75	1.680	1:350	0.02	0.30	+0.87	1,17	0.30	-0.89	1
13	D26-D32	8	116	13704	13820	3.415	500	0.75	3.760	1:550	0.01	0.30	-0.89	1.19	0.30	-0.90	1
	D32-RWH-4	5	116	13820	13935	3.443	500	0.75	3.760	1:550	0.01	0.30	-0.90	1.20	0.00	-0.91	0
14	RWH-4-	5	116	13820	14051	3,472	500	0.75	3.760	1:550	0.01	0.30	-0.60	0.90	0.00	-0.61	0
15	OFLOW			10020		RAIN WATE	1.00000			1	1.00005		11427620	1	100000	- swere's	1
1	D33-D34	10	231	0	231	0.057	400	0.75	1.680	1:350	0.03	0.30	-0.60	0.90	0.30	-0.63	0
2	D34-D35	26	601	231	832	0.206	400	0.75	1,680	1:350	0.07	0.30	-0.63	0.93	0.30	-0.70	1
3	D35-D36	8	185	832	1017	0.251	400	0.75	1.680	1:350	0.02	0.30	-0.70	1.00	0.30	-0.73	1
4	D36-RWH-5	5	116	1017	1132	0.260	400	0.75	1.680	1:350	0.01	0.30	-0.73	1.03	0.00	-0.74	0
5	RWH-5- OFLOW	5	116	1132	1248	0.308	400	0.75	1.680	1:350	0.01	0.30	-0.74	1.04	0.00	-0.75	0

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SIL M	ORK NO IV				Road Wo	rk
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acres)			17500	and the second se	6.61
	Area = 3.7812 Acre 2.10 m +2.10	3.781	@	100000	Rs.	_3.78
2m	Provision for Granular sub base 100mm, 450 mm	4290	@	500-	Rs.	21.45
3	Provison of Paved path of C.C. 1:2:4 80 mm/m ^{CM}	1430	@	300-	Rs.	4.29
4	Provision for Kerbs & channels of CC 1:2:4	1430	@	350 6	Rs.	5.018
5	Provision for making approach to each block for C.C. pavements L.S.		@	50000	Rs.	0.50
6	Provision of guide maps at selected place (L.S.)		@	50000	Rs.	0.50
7	Provision for Traffic Lights arrangement - L.S.		@	30000	Rs.	0.30 -
8	Provision for Demarcating Durgies - L.S.		@	50000	Rs.	0.50
9	Provision for Plot indicator - L.S.		@	50000	Rs.	0.50 -
10	Provision for Parking Arrangment, L.S.		@	150000	Rs.	1.50
11	Provision of carriage of material and unforseen items - L.S.		@	50000	Rs.	0.50
	TOTAL				Rs.	38.83
	Add 3% contingencies				Rs.	1.16
	TOTAL				Rs.	39.99
	Add 49% Department charges, price esclation, othe	er for unf	orse	en	Rs.	19.60
	charges. TOTAL				Rs.	59.59



	Road Work		_							
S. No.	Name of Road	Length Road Mtrs.	(in	Road Width	Metalled Width (Mtrs.)	Area in Sqm.				
	A	В		С	D	BxD				
1	Road No.A	570			6	3420.00				
2	Road No.B	80			6	480.00				
	Total	650				3900.00				
	Add 10 % for curves					390.00				
	Total					4,290.00				
	Add for surface plaza/ parking					4,290.00				
	Total									
	Say									
	Total Length of road	650								
	Add 10% curves	65								
	Total Length									
	Say	715	Mit	rs.						
	No. of CAR Parking = 0 Nos.	0	No	S.						
	Surface Plaza Area =2X5X3	0	Sq	mts.						
	CC foot paths on both side road									
	CC foot paths on both side =2m x length of road	1430	Mt	rs.						



SUNV	ork No-V				Street Lig	hting
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing street lighting on roads as per standard specifications on HVPN			2500	50/-	9
	Area = 3.7812 Acre	3.781	@	100000	Rs.	3.78
	TOTAL					3.78 0
	Add 3% contingencies	Rs.	0.11 9.			
	TOTAL	Rs.	3.89 4.			
	Add 49% Department charges, price esclation, other for unforseen					1.91.16
	TOTAL	Rs.	- 5.80			
					G	14.50



Sub Mork No.V1					Plantatio trees	Plantation & Road side trees		
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)		
1	Development of Lawn Area :- a) Trenching the ordinary soil upto 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 before and after flooding trench with water including cost of imported earth and manure. b) Rough dressing of trenched area. c) Grassing with "grass" including watering and maintenance of lawns free from weeds and fit for moving in rows 7.50 cm. in either direction including for hedges and grill and barred wire fencing around park and green belts (As per HSVP norms)					0.4.5		
	Area = 3.7812 Acre	3.7812	@	2000	Rs.	3.78		
2	Providing & Planting of trees with tree guards on roads at 12 m intervals		6					
	Total Road Length (M.) Trees @ 12 M. c/c	715 60 60						
	Say (1x 60) = 35 Or Say Cost of One Tree :-	00						
	Total Cost (each) Cost of Total trees	60	@	188	Rs.	1.08		
	TOTAL	Rs.	-3.82/0.5					
	Add 3% contingencies	Rs.	0.11 0 3					
	TOTAL	Rs.	-3.93/0'2					
	Add 49% Department charges, price esclation, othe charges.	Rs.	1.93 5-					
	TOTAL	Rs.	-5.86-/6-					





sr M	ORK NO. VII:			MTC. CHA RESURFA		
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for maintenance charges for water supply, sewerage, storm water, drainage, roads, street light, Hort., etc. complete including operation & establishment charges as per HSVP norms after completion.			7500	õ	2815
	Area = 3.7812 Acre	3.7812	@	280000	Rs.	10.59
2	Provision for resurfacing of roads after first five years of maintenance i.e.20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	4290	@	250	Rs.	25-74 10.73
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	4290	@	7200-	Rs.	22.17 8.58
	TOTAL				Rs.	29.89-8
	Add 3% contingencies	Rs.	_0.90 2			
	TOTAL	Rs.	-30.79 51			
	Add 49% Department charges, price esclation, othe	Rs.	15.09 4			
	TOTAL	Rs.	- 45.88			

