Le-4436

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATION OF INTERNAL DEVELOPMENT WORKS

FOR

PROPOSED "COMMERCIAL PLOTTED COLONY OVER AN AREA MEASURING 2.10625 ACRES" (LICENSE NO.206 OF 2022 DATED 14.12.2022) IN THE REVENUE ESTATE OF VILLAGE NURPUR JHARSA, IN SECTOR - 69, GURUGRAM – MANESAR URBAN COMPLEX BEING DEVELOPED BY M/S DIVYA BUILDCON PVT. LTD.

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REPORT:-

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Gurugram town of Haryana State situated on N.H. -48 road at a distance of 35 Km from Delhi. Being in the national capital region the town has fast developing tendency and potential. Further, it has also started sharing the growing residential, commercial and Industrial load of Delhi. In order to review the growing pressure of population in National Capital of Delhi, It has been decided by the Haryana Government to develop various infrastructure facilities in Gurugram - Manesar Urban Complex. The layout plan was approved vide DTCP Haryana Chandigarh Drg. No. DGTCP-8847 dated 15.12.2022. This report is for a part of service estimate for proposed "commercial plotted colony" area measuring 2.10625 acres" (License No.206 of 2022 Dated 14.12.2022) in the Revenue Estate of Village Nurpur Jharsa, in Sector - 69, Gurugram - Manesar urban complex being developed by M/s DIVYA BUILDCON PVT. LTD. has been prepared with the following provisions which are as under:-

1. WATER SUPPLY

The source of water supply in this area is by HSVP/GMDA Mains. It has been proposed to construct underground tanks of capacity as per attached details and the location for domestic purpose and for fire protection. The underground tanks will be fed from the HSVP/GMDA based supply, which will feed O.H. tanks on the roof of the SCO's and has been designed as per the Hazen Williams formula. Presently there is HSVP/GMDA W/S in this area. However the provision of tube well has been taken in this estimate due to non-availability of water but after getting the approval from the competent authority through tube well / tankers / any other approved source till HSVP/GMDA W/S will made available. The proposed tube well shall be 510mm bore drilled with reverse rotary rig and installed with 80mm i/d housing pipe and 50mm i/d slotted tube as strainer.

DESIGN

The scheme has been designed for population of 2233 persons, considering 1 person per 3 sqm area for ground floor and 1 person per 6 sqm for first floor for plotted commercial colony and considering @ 10% for shopkeeper @ 45 LPCD and @ 90% for visitors @ 15 LPCD and office area 1 person per 10 sqm for 2nd & 3rd floor and considering @ 90% for official @ 45 LPCD and @ 10% for visitors @ 15 LPCD and other requirement etc. as per design calculations.

529.30

PUMPING EQUIPMENTS

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 time electricity failure. Generator will be provided separately or added to the capacity of main generator.

2. SEWERAGE

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The scheme is designed for sewer connecting to the STP and bypass connection to HSVP/GMDA sewer scheme.

The sewer lines have designed for three times average D.W.F in relation to water supply demand. It has assumed that about 80% of the domestic and flushing water supply shall find its way into the proposed sewer. Sewer lines shall be running by gravity and discharge to STP proposed. Treated water will be used for Irrigation & Flushing purpose (through recycling) under the pipe line system.

3. STORM WATER DRAINAGE

It has been proposed to lay R.C.C pipes with required number of manholes for disposal of storm water, which will be connected to the HSVP/GMDA drain. The intensity of rain fall has been taken as 6.00mm (1/4") per hour. A minimum size of 400mm i/d R.C.C pipe for storm water drain will be provided and designed as per manning's formula. Necessary provision of rainwater harvesting arrangement has also been taken in this estimate.

4. ROADS

Road have been provided to above areas and estimate is prepared as revised specifications adopted by HSVP/GMDA.

5. STREET LIGHTING AND ELECTRIFICATION

Provision for external lighting of proposed area has been made.

6. HORTICULTURE

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

7. FIRE FIGHTING

As per N.B.C, fire tanks and required capacity pumps have been taken in the estimate and marked on the plan.

8. SPECIFICATIONS

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

9. RATES

The estimate has been based on the present market rates.

10. <u>COST</u>

The total cost of the scheme including cost of all services works out to Rs. 419.95 Lacs including 3% contingencies and 49% departmental charges + price as calculation and cost per acre comes out to Rs.199.39 Lacs.

251.30

For DIVYA BUILDCON PVT. LTD.

(Authorized Signatory)

Director/Auth. Signatory

DESIGN CALCULATION

		100			
	Total Area of Plot (Commercial)		=	2.1	0625 Acres Or
- 5					23.70 Sqm
	Permissible Ground Coverage @ 35%		=		33.29 Sqm
	Permissible FAR @ 150%		=	127	785.55 Sqm
J	Proposed Ground coverage		=		32.65 Sqm
4	Area Under Public Utility		=	1 N	
1	Proposed FAR Achieved		=		65.75 Sqm
1	Nos. Of S.C.O.'s		=		Nos.
I) WATER REQUIREMENT				al Colombia
A	A). Ground + First Floor				
	Area on Ground Floor (Shopping Area) S.C.O.'s		922	000	0.05.0
	Occupancy @ 3m ² / person		=		2.65 Sqm
2	2 Shopping area on First floors		=		Persons
			=	298	2.65 Sqm
	Occupancy @ 6 m ² /person		=	498	Persons
	Total occupancy		=		3 Person
	Water Requirement @ 10% shopkeeper				
	=150 nos. @ 45 LPCD		=	6750	LPD ·
	Water Requirement @ 90% visitors =1343 nos. @ 15 LPCD				
	Total		=		15 LPD
B.	2 nd Floor & 4rth Floor (Office Area)		=	2689	5 LPD(A)
i)	Office Area (Remaining area 12765.75 – 5965.30	,			a rayana sasa
,	Occurred © 42 2 47)	=	6800).45 Sqm
	Occupancy @ 10 m ² / Person		=	680 I	Persons
	Water Requirement @ 90% official = 612 Persons @ 45 LPCD				
	Water Requirement @ 10% visitors = 68 Nos		=	2754	0 LPD
	@ 15 LPCD		=	1020	LPD
	Total		=		0 LPD(B)
CI	For Public Halland				FA 58
C)	For Public Utility Services L.S.		=	5000	.00 LPD(C)
D)	MTC. STAFF + GUARD ETC.				
	Considering water requirement for mtc. Staff				
	+ Guard etc. L.S.		=	60 Pe	ersons
	Water Requirement @ 45 LPCD		=		<u>LPD</u> (D)
16	Total Water Requirement (A+B+C+D)				· /
	Tatal Hodalicilicili (A+D+O+D)		= OB 64		5.00 LPD
II)	FIRE DEMAND		OR 64.	.00 KL	D Say 70 KLD
	(i) For UGT i.e. Population		= 2233	Davas	22%
	(p) ½ x 100/1000 = (2.233) ½ x 100x1/3		- 2233	Persor	1S
	(Considering 1/3 of total)		- 40.04	VI D	
	Add. 15 % extra for marginal factor		= 49.81		
	- Margaretta Contractor	Total	= 7.47 k		6
		TOTAL	= 57.28	KLD	Say 100.00 KLD

= 20.00 KLD Garden Irrigation Requirement (For Total Area) III) = 70.00 KLD **Total Water Requirement** IV. (Excluding Fire Demand) =47.00 KLD $= 70 \times 67\%$ Hence Domestic Water Requirement (67%) =23.00 KLD $= 70 \times 33\%$ Hence Flushing Water Requirement (33%) = 29.00 K.L. for Domestic Say 30.00 K.L. Day Requirement @ 60% = 14.00 K.L. for Flushing Say 2000 K.L.

But it is proposed to construct an underground tank capacity 30 K.L. in two compartment for domestic use, 20 K.L. for non-potable water in two compartment (at STP) and 100 K.L. for fire fighting purposes for UGT in two compartment as shown location in the plan with UGT.

For UGT

Total Capacity of UGT = $\frac{70}{100} + 100$ = $\frac{140.00 \text{ KLD}}{1000 \text{ KLD}}$ = $\frac{140.00 \text{ KLD}}{1000 \text{ KLD}}$

V. Tube Well

a) Yield = 15 K.L. / Hr.
b) Working Hour per day = 16 Hr. / Per Day
c) Total water demand = 47 M3/Day
d) Number of tube well required = 0.196

(Water Demand / Discharge / Hr. working

Per day)

e) Add 5% extra = 0.009 Total = 0.205 Nos Say = 1 Nos

(Water to the proposed development is to be supplied by HSVP/GMDA. However, it is proposed to install only one no. tube wells for augmentation / standby purposes and provision has also been taken in the estimates due to non-availability of water but after getting the approval from competent authority..

I) Pumping Machinery for Tube wells

a) Gross Working Head = 80 Mtr
b) Average fall in S.L = 2 Mtr
c) Depression Head = 6 Mtr
d) Friction loss in main = 10 Mtr
Total = 98 Mtr

e) Discharge = 15000 LPH (Or 4.17 LPS Say 4.50 LPS)

f) Horse Power

 $HP = (4.50 \times 98) / (75 \times 0.60)$ = 9.80 H.P. Say = 10.00 H.P.

It is proposed to provide 1 No. pumping set of 4.50 LPS discharge at 98 Mtr head (1W)

II) Boosting Machinery for domestic water For UGT

Total Water Requirement = 47.00 KLD

Pumping per hour @ 8 hr. pumping / day = 47 /8 KL / hr.

= 5.875 KL / hr.

= 97.92 lpm = 1.63 lps

Say 3.00 lps

For UGT Gross working head = 7.00 mts.Suction lift = 6.00 mts.Frictional loss in mains & specials = 35.00 mts.Clear Head required = 48.00 mts.Total = 48.00 mts.Say = (3.00x48)/(75x0.60)Pump HP = 3.20 H.P.= 5.00 HPSay

It is proposed to provide 2 No. of pumping set of 3.00 lps discharge at 48 mts Head each (1W + 1SB) for UGT

III) Boosting Machinery for flushing water at STP

Total Water Requirement = 23 K.L.D

Pumping per hour @ 8 hr. pumping / day = 23 /8 KL / hr.
= 2.875 KL / hr.
= 47.91 lpm = 0.80 lps,

Say 1 No. 2.00 lps each

Gross working head

Suction lift = 7.00 mts.
 Frictional loss in mains & specials = 6.00 mts.
 Clear Head required = 35.00 mts.
 Total = 48.00 mts.

Total = 48.00 mts.
Say = 48.00 mts.

Pump HP = $(2.00 \times 48) / (75 \times 0.60)$

= 2.13 HP Say = 3.00 HP

It is proposed to provide 2 No. of pumping set of 2.00 lps discharge at 48 mts Head each (1W + 1S)

IV) Boosting Machinery for Irrigation water

Total Water Requirement = 20 KLD

Pumping per hour @ 5 hr. pumping / day = 20/5 KL / hr.

= 4.00 KL / hr.

= 66.66 lpm = 1.11 lps

Say = 2.00 LPS

Gross working head

- Suction lift = 3.00 mts.

Frictional loss in mains & specials = 3.00 mts.

Clear Head required = 25.00 mts.

Total = 31.00 mts.

Say = 31.00 mts.

Pump HP = $(2.00 \times 31) / (75 \times 0.60)$

= 1.38 HP

Say = 2.00 HP

It is proposed to provide 2 No. of pumping set of 2.00 lps discharge at 31 mts Head each (1W + 1S)

V) DG Set for pumping

DG Set Requirement

Submersible Pump (1 x 10)
Domestic Pump (1 x 5.00)
For External Electrification

Total pump load

0

0

(10) = 10.00 HP (5.00) = 5.00 HP

= 15.00 HP = 30.00 HP

 $=30.00 \times 0.746 \times 1.50$

= 33.57 K.W = 1 No. 40 KVA

Total DG capacity

Hence it is proposed to provide 1 No. D.G. Set of 40 KVA capacity at UGT For STP (DG set) = Flushing + Irrigation = 3+2+5=10 HP = $10 \times 0.746 \times 1.50 = 11.19$ KVA or 15×10^{-10} KVA

VI) FLOW TO SEWAGE TREATMENT PLANT

Total Water Requirement = 47 KLD for domestic & 23 KLD for flushing

i) 80% of total Domestic Water Demand = 80% of 47 KLD = 37.60 KLD

ii) 80% of total Flushing Water Demand = 80% of 23 KLD = 18.40 KLD

Total = 56.00 KLD

Considering 5% marginal factor = 2.80 KLD

G. Total = 58.80 KLD

Say 60 KLD

Proposed STP Capacity = 60 KLD Or 0.06 MLD

For DIVYA BUILDCON PVT. LTD.

Director/Auth. Signatory

(Authorized Signatory)

FINAL ABSTRACT OF COST

	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	SUB WORK NO.I	WATER SUPPLY SCHEME	133.09
		STATEM SOFFET SCHEIVIE	-88.63
2	SUB WORK NO. II	SEWERAGE SCHEME	35.49
		STATISTICS SCHEIVIE	35.25
3	SUB WORK NO. III	STORM WATER DRAINAGE	53.30
		OTOMIN WATER DRAINAGE	41.02
4	SUB WORK NO. IV	ROAD NETWORK	151.60
		NOAD WETWORK	-116.47
5	SUB WORK NO. V	STREET LIGHTING	
	9 9	OTHER EIGHTING	8.09
6	SUB WORK NO. VI	HORTICULTURE (DIANITATION O DA	3.82
		HORTICULTURE (PLANTATION & ROAD SIDE TREES)	3.04
7 5	SUB WORK NO. VII	MTC OF CERLUCIA	143.90
	storactor vii	MTC. OF SERVICES & RESURFACING OF ROADS	127.45
			529.290
_		TOTAL	419.95

Cost Per Acre = Rs. 419.95 Lacs / 2.10625 = Rs. 199.39 Lacs Per Acre

For DIVYA BUIL DCON PVT. LTD.

AUTHORISED SIGNATORY Director/Auth. Signatory

Executive Engineer HSVP Division No. V,

Superintending Engineer, HSVP Qircle, Surugram

Checked subject to Comments In forwarding letter No 230641 Dt.26 10 2023... and notes attached with the estimate

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Executive Engineer (M) for Ghief Engineer-I NSVP, Panchkula

SUB WORK NO. 1 (Abstract of cost)

WATER SUPPLY

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	Sub Head No. 01	Head Works	40.35
		TODA WORKS	19.30
2	Sub Head No. 02	Pumping Machinery	19.25
3	Sub Head No. 03	Rising Main from Plant Room	21.36
		The state of the s	21.25
4	Sub Head No. 04	External Fire Hydrants	3.60
5	Sub Head No. 05	Irrigation	2.00-2-16
		1	
		TOTAL	86.7 -57.75 2,
-		Add 3% contigencies & P.H. Services	1.73
		TOTAL	59.48 89
		Add 49% Departmental Charges + Price escalation	29.15 (13
		TOTAL	88.629
	-	Say in Lacs	-88.63 13

SUB WORK NO. 1 Sub Head No. 01

WATER SUPPLY HEAD Works

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Sr. NO.	Description	
	Part L. L. L. C	Amount in R
1	UGT 130 KLD @ Rs. 4500/- per K.L.D	630000.00 7·15 0
	b) Construction of storage tank at STP = 40 KLD @ Rs. \$500/- per KLD	The Parket
2	Provision for source with at STP = 40 KLD @ Rs. 4500/- per KLD	180000,00
	Provision for construction of Boosting Station 1 Nos @ Rs. 250000/- each	-250000.00 Y·W 69
3	borning and installing tube well reverse rotary rig complete with	
	strainer to a depth of about 98 Mtr complete in all respect. 1 Nos @ Rs. 700000/-	15.0
4	Provision for construction of tube well chamber size 1.50m x 1.50m complete in all respect. 1 Nos @ Rs. 100000/- each	
5		100000.00
3	Provision for carriage of material and unforeseen items L.S.	
	Provision of special for tube well and in the second two second water works	2 0000.00
7.	Oracle Land rising main to U.G.T. L.S.	2.00
Q.	Prov. for staff of to me staff (W)	50000.00 1·60 63
	THE STANK CO.	7.50 los
	TOTAL	1930000.00
	Say in Lacs	19.30
	(C/O To Abstract of cost for Sub Work No.1)	40.35

SUB WORK NO. 1 Sub Head No. 02

WATER SUPPLY Pumping Machinery

	. Description	Amount in R			
1	Providing and installing the				
	Providing and installing Hydro pneumatic pumping set of following capacities for				
	The state of the s				
	3.00 lps at 48 mts head - 2 No. (1W+1SB) - @ Rs. 80,000/- each Set (5.00HP)	2.00			
	(5.50Hr)	160000.0 0			
2	Providing and installing Hydro Province				
	Providing and installing Hydro Pneumatic pumping set of following capacities for Flushing water supply				
	2.00 lps at 48 mts head - 2 No. (1W+1SB) @ Rs. 50,000/- 1 Set (3.00 HP each)	100000.00			
	1357 (211135) @ RS. 50,000/- 1 Set (3.00 HP each)				
3	Providing and installing Submanily	1.20 (05			
	Providing and installing Submersible pump for tube wells with specials				
	4.50 lps at 98 mts head - 1 Nos (1W) @ Rs. 1,00,000/- 1 Set (10HP each)				
	(Tohp each)	100000.00			
4	Providing and installing Hudro Down	500			
	Providing and installing Hydro Penumatic pumping set of following capacities for irrigation drainage				
	o a a a a a a a a a a a a a a a a a a a				
	12.00 - ips at 31 mts head 2 Nos (1W + 1SB) @ Pc 15 000 / /2 0 //2	0.80			
5	The vision for D.G. Set 10f Stand by arrangement for all	30000.00			
	= 1 No. 55 KVA @ Rs. 10,000/-per-kVA (40+15)	550000.0 0			
6	David Car	8.25 05			
	Provision for making foundations & erection of pumping machinery				
270	Trevision for pipes, valve & specials inside boosting about	50000.00			
٠ ا	FIGURE OF Electric Services connection including 1 1 2 2	50,000.00			
	The state of the s	100000.00			
9	chambers and pump chamber etc. and cost of Transformer Provision for carriage of materials and other unforeseen items L.S.				
-+	de differ unforeseen items L.S.	20000.00			
-	TOTAL	1160000.00			
	Say in Lacs	11.60			
	(C/O To Abstract of cost for Sub Work No.1)	19.25 9			

SUB WORK NO. 1 Sub Head No. 03

WATER SUPPLY Rising main upto Plant Room, Domestic & Flushing Water Supply

Sr. NO.	Description	Amount in Rs
		Amountmik
1	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects	
i)	100mm dia D.I. Pipe 1074 Mtr @ Rs. 1460/- Per Mtr	150000000
		1568040.00
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect	
	i) 100mm i/d 12 No. @ Rs. 11000/- each	1.44/83
	7. 11000/- each	_132000.00
3	Providing and fixing indicating plates for sluice valve 12 No. @ Rs. 2000/-	
	g places for states valve 12 No. @ Rs. 2000/-	24000.00
4	Provision for carriage of materials	
	Provision for carriage of materials and other unforeseen items	50000.00
5	David in G	
	Provision for making connection with Govt. Pipe etc. (15)	300000.00
6	Provision for cutting the model of	
7.	Provision for cutting the road and making good the same (4.3)	50000.00
7.	Prov. and fixing our value and scour value or scour	1.00
	Taps my Corr of Back mas 1914 chamber (13)	2124040.00
	Say in Lacs	21.25

(C/O To Abstract of cost for Sub Work No.1)

21.36 lac

SUB WORK NO. 1 Sub Head No. 04

WATER SUPPLY Fire Rising Main

Sr. NO.	Descr	iption	
	Descr	ption	Amount in Rs
1	Providing, Laying, jointing and testing Heincluding cost of fittings, valves, connecting	avy Class M.S. Pipes for fire rising main on etc. complete in all respect	
a)	100mm dia - 72M @ Rs. 1460/- Per Mtr		
	13. 1400/- Per Mitr		105120.00
2	Providing and fixing fire Hydrant with acce	essories 12 No. @ Rs. 15000/- each	180000.00
	6	_	
	Provision for carriage of materials (Lump s	um)	25000.00
4	Providing and fixing indicating plate -12 No	O. D. 2000 /	
	g and a marcating place -12 No	o. @ Rs. 2000/- each	24000.00
5	Provision of road cutting and making	180	
	The state of the s		25000.00
		TOTAL	359120.00
	ICIO T. Al	Say in Lacs	3.60 La

(C/O To Abstract of cost for Sub Work No.1)

SUB WORK NO. 1 Sub Head No. 05

WATER SUPPLY Irrigation

Sr. NO.	Dogewinst	
	Description	Amount in F
1	Providing, Laying, jointing and testing UPVC pipe lines suitable for 6 kg pressure including cost of fittings, valves, connection etc. complete in all respect	2
94. (2.5)	i) 25mm i/d 120 M @ Rs. 3 00/- Per Mtr	0.361
2	Providing and fixing 20mm dia, Irrigation hydrant valve complete in all respect 20 No. @ Rs. 3000/- each	60000.00
	No. & No. 9000/- each	60000.00
2	Provision for indicating plates with boxes etc.	7 0-0
	20 Nos. @ R.s 2000/- Each	
3	Provision for carriage of materials and other unforeseen items (Lump sum)	40000.00
	(Lump sum)	20000.00
4	Provision for road cutting and making as original condition L.S.	
	and making as original condition. L.S.	20000.00
		- a.16 (a
	TOTAL	200000.00
	(C/O To Abstract of cost for Sub Work No. 1)	2.00

(C/O To Abstract of cost for Sub Work No.1)

SUB WORK NO. II

SEWERAGE SCHEME

Sr. NO.	Description	Amount in Rs.	1
1	Providing, jointing, cutting and testing stoneware pipe grade A and lowering into trenches including cost of excavation, bed concrete, cost of manholes etc. complete		
	a) SW Pipe 200mm i/d avg. depths 0 - 2.00M 159 M @ Rs. 1700/- per Mtr b) SW Pipe 250mm i/d avg depth 2.00 M 122 M @ Rs. 2000/- per Mtr	270300.00	
	c) SW Pipe 300mm i/d avg depth 3.00 M 5 M @ Rs. 2000/- per Mtr	244000.00	,
2	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respect - 150mm dia Heavy Class DI pipes (overfow for STP)	7200.00 <u>\$16</u>	las
	a) 150MM i/d D.I. Pipe - 120 M @ Rs. 2040/- Per Mtr	244800.00	
3	Provision of lighting and watching etc.	30000.00	
4	Provision for cartage of material & cutting of roads etc.	1 50000.00	
5	Dravisian f	, 50000.00	
6	Provision for making connection with Govt. sewer line	250000.00	
6	Prov. & fixing vent shaft at suitable Places of the Provision for STP 60 KLD (Tertiary Treatment Level with recycling storage). Complete in all respect. @ Rs. 20,000/- per KLD	1200000.00	
	TOTAL		1-
	Add 3% contigencies & P.H. Services	COOOO	131
_	TOTAL	2265190	59
	Add 49% Departmental Charges + Price escalation	-1158943	82
	TOTAL	3524132	67
	(C/O to Final Abstract of cost)	35.25- 75.	1 - 1

SUB WORK NO. III

STORM WATER SCHEME

Sr. NO.	Description	Amount in Rs.
4		
1	Providing, lowering, laying, jointing RCC pipe class Np3 with cement joint manholes, specials into trenches including manholes, chambers etc. exbackfilling and disposal of surplus earth complete in all respect	int, ccavation,
	a) RCC Np3 pipe 400mm i/d = 509 M @ Rs. 2500/- Per Mtr	1272500.00
2	Drawitti C	
2	Provision for road gulley & with pipe connection L.S.	3 00000.00
3	Provision for lighting and watching L.S.	20000 00
		30000.00
4	Provision for timbering and shoring L.S.	
		20000.00
5	Provision for cartage of material L.S.	
	g - Macerial E.J.	50000.00
6	Provision for making connection with Control	· ·
	Provision for making connection with Govt. storm water drain L.S.	250000.00
7	Providing rain water beauty	
8.	Providing rain water harvesting arrangement for 03 No. pits @ Rs. 35000	
8.	HSVP come on Ponid (4) TOTAL	
	TOTAL	-2672500.00 3
	Add 3% contigencies & P.H. Services TOTAL	80175.00
	Add 49% Departmental Characteristics	2752675.00
	Add 49% Departmental Charges + Price esca	1.6
	TOTAL	4101485.75
	Say in Lacs	41.02

(C/O to Final Abstract of cost)

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Sub Work No. 4

ROAD WORKS

. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for leveling & earth filling as per site conditions	Per Acre	2.10625	100000 1.75 as	210625
		7 101 0		1.12.102	3.69
2	i) Providing and laying 100mm thick PCC under pavement, cement concrete of specified grade 1:4:8 and 150mm thick RMC grade M-40 ii) Providing and laying Bituminous road (250mm GSB, 300mm WMM, 50mm DBM, 40mm BC).	Carre	5180	1300	0000159- 0000159- 0000159-
3	Provision for kerbs & channels of C.C. 1.2:4	Sqm			
	See Section 11 C.C. 1.2:4	Metre	1000	600	600000
4	Provision for making approach and	C	mh		000000
	pavement to building, provision for C.C pavement	Sqm	L.S.		150000
5	Interlocking tile 80mm thick for surface of pavement etc.	Sqm	390	800	3.90 64
6	Provision for parking arrangement, guide	LS			
	map and indicating board etc.				50000
7	Provision for carriage of material & other Uk	hahszen		1112	, .
8	row. Jer Forthic luster among	ame	× 45	(64)	2 50000
	Sub Total	, - , , , ,	W (2)		2.00 195
	Add 3% contingencies & PH Services				-7588625
	Sub Total				227659
	Add 49% Departmental Charges , pool &	catal	ion		7816284
	unjoy seen, OdmnJotal	- 0	,		3023373
	Say Rs. In Lacs				11646263
					116.47

Sub Work No. 5

STREET LIGHTING

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
. 1	Providing lighting at surrounding area s per standard specifications of HVPN	Acre	2.1063	250000	526562.5
	Add 3% contingencies & PH Services		74		15797
	Total			э	542359
	Add 49% Departmental Charges				265756
	Total	-1			808115
	Say Rs. In Lacs		,	¢	S. 8.09 La

(C.O. to Final abstract of cost)

Sub Work No. 6

HORTICULTURE

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Development of Lawn Areas	-			
a.	Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure		*	X	
b.	Rough dressing of turfed area		-		
С	Grassing with "Cynadon dactylon" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in row 7.5 cm part in eighter direction				
ď	organized green 500 Sqm (Appx)Or 0.12 Acres (Considering for part area L.S.)	Acre	0.12	150000	18000
; ; ; ;	Providing and planting trees along boundary @12 m interval (Length appx 1000M) = 1000/12 = 84 Nos Say No. of trees = 100 Nos Cost details : Excavation = Rs. 100 - 60 or Manure = Rs. 100 Tree Plant = Rs. 100 50 or Tree Guard = Rs. 1500 2 00 or otal = Rs. 1800 2310			Si Si	
	2000 2514	Each	100	4310	2.31 las
S	ub Total	Lacii	100	1800	180000
A	dd 3% contingencies & PH Services	\rightarrow			198000 2 49 6
Si	ub Total				5940 0 0710
A	dd 49% Departmental Charges				203940
Total					99934 2,261 303871 1,261

(C.O. to Final abstract of cost)

Sub Work No. 7

Mtc. Of services & Resurfacing of Road

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)	
1	Mtc. Of water supply, sewer, storm water drain, roads, street light, hort. Etc. for period of 10 years including operation charges full establishment etc. complete in all respects 4.15625 acres @ Rs. 5.00 lacs per acre	Acre	2.1063	\$ 00000	-1053125 6·85	las
2	Provision for resurfacing of roads after 5 years of 1st phase with provision of 50mm thiCK DBM including leveling coarse and 30mm BC as per crust design whichever is safer	Sqm	5180	-600- 66°J	3108000 34·19 (25
3	2nd phase after next five years of 2nd phase (50mm DBM & 30mm BC or as per crust design whichever is safer	Sqm	5180	-800 825]-	4144000	۷
	Sub Total				9205425	027
	Add 3% contingencies & PH Services				8305125	93.7
	Sub Total				249154	2.81
	Add 49% Departmental Charges				8554279	96.5
	Total				.20207	
	Say Rs. In Lacs				12745875	47-3
					127.45	143.0

SUMMARY OF DESIGN REQUIREMENT

S. No.	Description	Qty	Unit
1	Total Population	2233	Persons
2	Total Water Requirement (Domestic)	47	KLD
3	Total Water Requirement (Flushing)	23	KLD
4	Total Water Requirement (Horticulture)	20	KLD
5	U. G Tank (Domestic + Fire) 40+ 100 KL = 140 KL	1	No.
6	No. of Domestic WS pumps UGT	1+1	Set
7	No. of Flushing pumps	1+1	Set
8	No. of submersible pumps	1	No.
9	Generating sets (40 KVA + 15 KVA = 55 KVA)	1	55 KVA
10	S.T.P. (60 KLD)	1	No.

TOTAL MATERIAL STATEMENT FOR WATER SUPPLY i.e. DOMESTIC, FLUSHING & RISING MAIN ETC.

S. No.	Description	Size of pipe upto valve in 100mm	Size of pipe upto valve in 150mm	Size of pipe upto valve in 200mm
1	Domestic	480 M	0	-
2	Flushing	419 M	0	-
3	Rising Main	175 M	-	-
	Total	1074 M	0	-

MATERIAL STATEMENT OF WATER SUPPLY SCHEME (DOMESTIC)

S. No.	Line Designation		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr		
1	From	То			100MM	150MM	200MM
1	UGT	Α	100	7	7		20014114
2	Α	В	100	10	10		
3	В	C	100	122	122		-
4	С	D	100	86	86		-
5	Α	E	100	55			
6	Е	F	100	72	55		
7	F	D	100		72		
8	Е	D	100	48	48		
			100	80	80		
	Total		26	480	480		141

Total for 100mm i/d D.I. Pipe Length

480 Mtr

Total

480 Mtr

MATERIAL STATEMENT OF WATER SUPPLY SCHEME (FLUSHING)

S. No.		ignation	Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr		
	From	To			100MM	150MM	2000404
1	STP	a	100	3	3	T20141141	200MM
2	a	b	100	12	12		
3	b	C	100	112	112		
4	С	d	100	81			
5	а	е	100	50	81		
6	е	f	100	66	50		
7	f	d	100		66		
8	e	d	100	38	38		
		ч	100	57	57		
	Total	174		419	419		0

Total for 100mm i/d Pipe Length

419 Mtr

Total

= 419 Mtr



MATERIAL STATEMENT FOR BOREWELL RISING MAINS AND Govt. MAIN

S. No.	Name of Line		Name of Line Size of Pipe Provided		Length of Pipe (Mtr)	Length in Mtr	
	From	То		(iviei)	150mm	100	
1	T.W.	UGT	100	15	13011111	100mm	
2	Govt.			13	0	15	
-	Line	UGT	100	160	0	160	
	Total		o .	175	0	175	

MATERIAL STATEMENT FOR SEWERAGE SCHEME

S. No.	lo. Line No.	ne No.	Length (In Mtr)	Pipe Dia		Length in Mt	r
	From	То	-		200mm i/d	250mm i/d	300mm i.d
1	Α	В	45	200	4-		
2 .	В	С	72		45		
3	C2	C1	60	250	-	72	
4	C3	C1		200	60		
5	C1	C1	54	200	54		
6	C		50	250		50	
		S.T.P.	3	300			3
7	STP	Govt line	(BY Pumping) 150mr	n i/d D.I. PIPE	=120 mtr	220	3
							-
	Total		284				
			204		159	122	3

200mm i/d Pipe Length

159 Mtr

250mm i/d Pipe Length

122 Mtr

300mm i/d Pipe Length

3 Mtr

150mm i/d D.I. PIPE (BY PLUMBING) =

120 Mtr

say 5 mh

MATERIAL STATEMENT OF STORM WATER DRAINAGE SCHEME

Sr. No.	Line R	Line Reference			
	From		Length in Mtr		
1		То	•		
	A	В	60		
2	В	C	58		
3	С	D	50		
4	D1	· D	45		
5	D	E	21		
6	E1 .	E	62		
7	Е	F			
8	F1	F	50		
9	F	Govt. S.W.D.	138		
		GOVI. S.W.D.	25		
	Total Length	46	509		

Total Length 400mm i/d RCC Np3 pipe = 509 Mtr TOTAL RAIN WATER HARVESTING (RWH)= 3 No.

Material Statement of Road Works

i) 6.00 Mtr wide Road			(42)
a) Road / Parking			
a) Road No1=115.00 \times 6.00 M =		690	00 5~~
b) Road No. $-2 = 46.0 \times 6.00 M =$		00 Sqm.	
c) Road No. $-3 = 68.0 \times 6.00 M =$			00 Sqm.
d) Road No. $-4 = 55.0 \times 6.00 \text{ M} =$			00 Sqm.
e) Road No5 = 69.0 x 6.00 M =			00 Sqm.
b) Parking Area		414.0	00 Sqm.
a) Parking Noi = 105.0 x 17.50 N	1 –	1027	-0.0
b) Parking Noii = $10.80+21.30 \times 10^{-10}$	// - 17 00 M		50 Sqm.
2	17.00 101 =	2/2.8	35 Sqm.
c) Parking Noiii = <u>10.80 x 17.00</u>	Ν4 —		
2	IVI =	39.9	6 Sqm.
d) Parking Noiv = 14.0×17.00 N	Large.	02.020000	
2	1=	119.0	0 Sqm.
	20.14		, (ac
e) Parking Nov = $\frac{7.10+4.90}{2}$ x 12.	SU IVI =	76.8	0 Sqm.
f) Parking No. vi = 11.40 v.11.00 v			
f) Parking Novi = 11.40 x 11.00 M	125.40 Sqm.		
g) Parking Novii = 5.0×6.20 M =		15.50	O Sqm.
h) Parking No. viii - 27.00 . 12.00			
h) Parking Noviii = 27.00 x 12.00	M =		9 Sqm.
Total		4929.01	Sqm.
Add. 5% extra for Curves		246.45	Sqm.
Total		5175.46	Sqm.
ii) Kerbs & Channels	Say	5180.00	Sqm.
a) 6.00 m wide road = 2 X 353 m =		706.00	Sqm. mh
b) Parking = 96 + 53 + 22 + 27+11+1	2+16 =	237.00	Sam. mb
Total		943.00	Sam. only
Add. 5% extra for Curves	41	47.15	Sam. mp
Total		990.15	Sam. ml
iii) Pavement :-	Say	1000.00	Sam. ontrs.
i) Pavement - (a) = 96.25 x 1.0 M =	96.25	Sqm.	
ii) Pavement - (b) = 96.25 x 1.0 M =	96.25	Sqm.	\$6
iii) Pavement - (c) = 14.50 x 4.0 M =	58.00	Sqm.	
iv) Pavement - (d) = $16.50 \times 1.0 M =$	16.50		
v) Pavement - (e) = 53.00 x 1.0 M =	53.00		
vi) Pavement - (f) = 23.00 x 1.0 M =	23.00		
vii) Pavement - (g) = $12.00 \times 2.0 M =$	24.00		
Total	367.00	Sqm.	
Add. 5% extra for Curves	18.35	Sqm.	
Total	385.35	Sqm.	
Say	390.00	Sqm.	

MATERIAL STATEMENT FOR EXTERNAL FIRE FIGHTING

29

Total length of water supply line (Domestic) = $480 \, \text{M}$ Fire hydrant Considering @ $30 \, \text{M}$ c/c each (480/40) = $12 \, \text{Nos}$. For $100 \, \text{mm}$ dia with Fire Hydrant = $12 \, \text{Nos}$

For 100mm dia pipe = $12 \times 6.00 = 72.00 \text{ Mtr}$

SUBHEAD: IRRIGATION WATER SUPPLY SCHEME - DESIGN CALCULATION (HORTICULTURE)

HYDRAULIC STATEMENT OF IRRIGATION WATER SUPPLY

2.5		,				
Available head (M)						
Formation Level		1				
Loss of Head in Line (M)		1				
Length (M) Loss of Formation Available Head in Level head (M)		180				
Total Friction Loss in	m/m	ť				
Hydraulic Radius						
Size of the Size of the Hydraulic pipe Pipe Radius required Recommen	d (mm)	3				
Size of the pipe required	(in mm) 25.00					
Velocity (m/s)	,					
Peak Flow in LPH	·					
Population Peak Flow Velocity in LPH (m/s)	20000					
Line Reference	From	Flushing	Water	Supply	line	
S. No.			1			

Note: 20 Nos connections are to be done from flushing water supply line i.e. 20 Nos \times 6 Mtr/each = 120 Mtr for 25mm i/d

	ALION
SUBHEAD: DOMESTIC WATER SUPPLY SCHEME. DESIGN COLL	CALCUL
FCICAL	Noica
FMF. n	1
LY SCH	
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OMESTI	(DOME
:AD:D(R SUPPLY SCHEME (DON
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	_
HVDBALLICETATATA	COLA
III V Q Q	Line
2	

2.1 25 A .s Cl. mer .. I Pld ..d Cl. .ny i. .ec-t. . Gur ..ram

No. Reference Population Park Flow Park Flow			1							_	_	_		_		-		_	_	_	_	_	_	_
Figure Population Total Water Population Population Total Water Population			Remarks			Finish Ground level of UGT i.e. at	Woton representation	water works F.S.L. = 228.15	Boosting Head = 48.00M		Haudraulic head = 276.15 Mtr at		water works	6			-							
HYDRAULIC STATEMENT OF WATER SUPPLY SCHEME Population Population			Available head (M)			276.13	276 12			1	8	Г	- 16	276.00		275.95	275.99							
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935			Formation Level (L/E)			228.10	228.10		227.90	00 700	06.122	228.00	750.00	227.95		227.90	227.90							
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935	CULATION				000	0.02	0.01		0.12	0	600	90.0		0.07	200	0.05	0.08							
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935	ESIGN CALO		Length (M)	ě	1	,	10	100	777	98		55		72	78	40	80							1
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935	CHEME - DI		Total Friction Loss in M/M		0.003		0.001	0.001	1000	0.001		0.001		0.001	0.001		0.001							1
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935	ER SUPPLY S	10 Je 26 11			100	7007	700	100		100		100	001	700	100		100							
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935	ESTIC WAT	Size of the	pipe required (m)		100	8	8	80		08	00	00	80	3	80	6	00							
HYDRAULIC STATEMENT OF WATER SUline Reference Requirement in LPD (As per 21.05 LPCD) UGT-A 2233 47005 A-B 1002 21092 C-D 0 0 0 A-E 1231 25913 E-F 452 9515 F-D 0 0 0 E-D 567 11935	D: DOM	Velocity	(s/m)		0.29	0.20		0.20		0.16	0.00	07:0	0.16		0.16	21.0	0.10							
	SUBHEAL	Peak Flow	in LPH		17626	7909		606/		0	1717.0		3567		0	4475								
	r of water su	Total Water	Requirement in LPD (As per 21.05 LPCD)	1000	47005	21092	21002	76017	_	,	25913		9515	c	0	11935								
	STATEMEN	Population		2733	2011	1002	1002	-	0		1231	-	452	0		292								
	HYDRAULIC	Line	кетегенсе	UGT -A		A - B	B-C		C - D		A -E	u		F-D		E-D						,		
	г			Н	,	7	m		4		n	\(C		7	,	×								

C...106 J Ach J Col. nerford County Sector, Guingrain Colon July Colon July Bull Joon July L. J. SUB HEAD: FLUSHING WATER SUPPLY SCHEME - DESIGN CALCULATION

HYDRAULIC STATEMENT OF WATER SUPPLY (FLUSHING)

	Remarks			14	100000000000000000000000000000000000000	i illisiillig G.L. at SIP = 228.15	Boosting Head = 48.00	ili		STP = 276.15 M												,
	Formatio Available n level head (M)			13	276 14		276.13	276.02		275.94	276.09		276.02	275.98	276.02	570.03					 	
	Formatio n level			12	228.10		228.10	227.90	20100	777.90	228.00	1000	227.95	227.90	227.90							
	Loss of head in line (M)			11	0.01		0.01	0.11	000	0.08	0.05	100	0.07	0.04	90.0				1			\dagger
	Length in Mtr			10	3	,	17	112	81	5	20	99	90	38	57							
	Total friction loss in (m/m)		o	6	0.002	0001	7000	0.001	0.001		0.001	0.001	10000	0.001	0.001		1					
		(mm mi)	~	,	100	100		100	100		100	100	000	100	100					1		
	Size of pipe pipe required (in recomm		7	C	28	80	6	08	80	0		80	00	00	80							
	Velocity (m/sec)		9	76.0	0.57	0.20	000	0.20	0.16	00.0	0.20	0.16	0.16		0.16					-	1	
	Peak flow in LPH		5	8625		3870	3870		0	4754	1705	1/45	0	2100	7720			1			1	
	Total water requirement in LPD (as per 10.30 LPCD)	,	4	23000		10321	10321		,	12679	4656	200	0	5840	2							
	Population	2	,	2233	1000	7007	1002	0		1231	452		0	292								
	Line Reference	2		STP -a	a- b	2	p - c	p-o		a-e	e - f		p-j	p-ə								
n er	S. No.	н			2	T	3	4	l	2	9	1	7	∞		1	+		+	_		1

SEWERAGE SCHEME - DESIGN CALCULATION

- 1062 Acre John ercit. Plott J Co. . iy Ir. -ec-6. Gurt Jam

DESIGN STATEMENT OF SEWERAGE SCHEME

		A.H	100		Average	21	1.35		1.70)	1 10	4.13	1.20		1.53		1.93	1.93								
		Depth of M.H			End	20	1.50		1.87		1.37		1.39		1.63	, ,	1.96	1 01	1.63	T			1			
					Start	. 61	1.20		1.53		1.00		1.00		1.42	1 00	7.30	2.00						1		
		Level		Pag.	cna	18	226.50	226.47	226.23	226.20	226.68	1	226.66	226.63	226.47	226.19	7.07	225.65			1			†		
		Invert Level		Start	Start	17	226.70		226.47		226.95	200 300	726.90	22.700	220.03	226.20		226.15			1			1	1	
		rormation level		End		16	228.00	0,000	778.10		228.05	228 OF	67.03	229 10	07.022	228.15	\dagger	227.50			T			\dagger	+	-
			-210	Start		4	227.90	220,000	220.00		227.95	227.90	_	228.05	_	228.10		228.15	1					t	+	
	Ground level			End	10	+T	227.80	228.00	00.07		227.85	227.85		228.00	_	228.00		227.20	1					T	T	
	Groun			Start	13	OF TOC	77.70	227.80		100	227.80	227.80	_	227.85	-	778.00		228.00	T			1			T	
	Fall +	Extra		Σ	12	000	0.50	0.24		100	\neg	0.24		0.16	+	0.01	-	0.50	1			\dagger			\vdash	
	Length in	Mtr			11	45	?	72		9	3	24		20	2	,	,	170								
	Carrying	Cap. Of pipe (In LPS)		m3/sec	10	0.012		0.019		0.012	2000	0.012		0.019	0.027					1						
	Velocity	m/sec		m/sec	6	92.0		92.0		9.76	92.0	0	0.0	0.76	0.76	1				1			+			
	Gradient		- Parker		∞	225		305		225	225		300	coc	385		(9)						1			
	Size of	ed a	mm		`	200	0.00	057		200	200		250	3	300		Y PUMPIN	-			1		+	+		
	Sewerage Size of	peak at 3	m3/sec		,	0.0004	00000	0,000	,000	40000	0.0005		0.0011		0.0019		150mm i/d D.I. PIPE (BY PUMPING)							1		
	Sew. Quantity	after evaporation losses (20%	CPD	2		12664	25129		11326	Occar	14220		30872	50000	20003		150mm i/c				1			1		
	Total discharge		LPD	4	45042	1284/	31443		14184		17792		38629	2007	7100			r	1						1	
	Population			3	505	2	1002		452		267		1231	2233					1							
Г	Name of Node			2	A-B		B-C		C2-C1	20 00	17-EJ	1	C1-C	C-STP		STP - Govt.	Sewer line								1	
	i ė			1	1		2	+	m	7		+	n	9	-	_	Se		+	+		+	+		$\frac{1}{1}$	

2.16 J. 3 Act Com. Ircial Lutted Jony Sec-L Guri, Jm DESIGN CALCULATION OF STORM WATER DRAINAGE SCHEME

1. Divy Juilds Peyt.

INTENCITY OF RAIN FALL = 0.006 MTR /HR IMPERMEABILITY FACTOR = 0.6

s.	Name of	Area	Area	Branch									1											
No.	Node	(Self)	(Self)	Area	Area	lotal Area	Rain fall	Discharge @ 17.36	Length	Pipe dia	Slope	Velocity	Cap.	Fall +		Ground Level	Format	Formation Level	Invert Level	Level	Depth of		Average	Remarks
		2	In Acre	In Acre	2	4	-						drain	Fall							M.H's			2
,		SQM			Acre	Hector	mm / hr.	IN LPS	In Mtr	ln mm	In Mtr	IN m/sec IN LPS	IN LPS	IN Mtr	Start	End								
4	7	8	4	2	9	7	8	0	9,	;	\neg					EUG	Start	End	Start	End	Start	End		
-	A-B	1080	0.27	0	0.27	0.11	800	3.85	9	11	12	13	14	15	16	17	18	19	30				1	
2	B. C	000	000	1			000	96-1	09	400	570	0.76	98.57	0.10	228.00	00 200	+	_	2	17	77	23	24	25
0		306	0.22	0.27	0.49	0.20	6.00	3.47	58	400	570	0.76	73 00		220,00	08.777	778.10	228.00	226.60	226.50	1.50	1.50	1.50	
,	2-5	2	0.00	0.49	0.49	0.25	6.99	83.68	50	700	13		1000	0.10	777.80	227.80	228.00	227.95	226.50	226.40	1.50	1.55	1.52 RW	RW/H - 1
4	D1 - D	720	0.18	0	0.18	0.07	40.7	79.7	3 !	200	0/0	0.76	98.57	60.0	227.80	227.80	227.95	227.90	226.40	226.31	155	1		
2	D-E	120	0.03	+	000		200	17.7	45	400	270	0.76	98.57	80.0	227.85	227.80	228 NE		_	+	+	1	1.5/	
٧	2		6	6/.0	787	0.33	90.9	5.73	21	400	570	0.76	98 57	000	_		220.03	_	77.02	226.97	1.00	0.93 0	- 26.0	
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7	E-F	750	0.19	1.08	1.27	0.51	200	-	1	3	0/0	0.76	98.57	0.11	227.85	227.80	228.15	227.85	227.15	227.04	1 00	0 81	5	
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				-						3	0/6	0.76	98.57	0.04	227.70	227.20	227.85	227.50 2	226.18 2	226.14	1.67	1.36	1.52 RW	RWH.3
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FORM LC -V (See Rule 12) HARYANA GOVERNMENT TOWN AND COUNTRY PLANNING DEPARTMENT

Licence No. 206 of 2022

This License has been granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rules 1976, made thereunder to Divya Buildcon Pvt. Ltd. H-334, Ground Floor, New Rajinder Nagar, New Delhi-110060 for setting up of Commercial Plotted Colony for an area measuring 2.10625 acres in Sector-69, Gurugram Manesar Urban Complex.

- The License is granted subject to the following conditions:
 - That Commercial Plotted Colony will be laid out in accordance with the approved layout plan.
 - b) That the licensee shall deposit an amount of Rs. 1,27,85,991 /-(@Rs. 1000 per sqm for commercial component) against Infrastructural Development Charges in two equal installments. First within 60 days from issuance of license and second within six months be paid online at www.tcpharyana.gov.in. In failure of which, an interest @ 18% per annum for delay period shall charged.
 - That conditions of the agreements already executed are duly fulfilled and the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made there under are duly complied with.
 - d) That you shall submit the additional bank guarantee, if any required at the time of approval of Service Plans/Estimate. With an increase in the cost of construction and increase in the number of facilities in building Plan, you would be required to furnish an additional bank guarantee within 30 days on demand. It is made clear that bank guarantee of Internal Development Works/EDC has been worked out on the interim rates.

That area coming under the sector roads and restricted belt / green belt, if any, which forms part of licensed area and in lieu of which benefit to the extent permissible as per policy towards FAR is being granted, shall be transferred free of cost to the Govt.

- f) That you shall construct portion of service road, internal circulation roads, forming the part of site area at your own cost and shall transfer the land falling within alignment of same free of cost to the Govt. u/s 3(3) (a) (iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
- g) That you have understood that the development/construction cost of 24 m/30 m major internal roads is not included in the EDC rates and you shall pay the proportionate cost for acquisition of land, if any, along with the construction cost of 24 m wide major internal roads as and when finalized and demanded by the Department.

Director Goueral Town & Country Planning Haryana, Chandigarh

- h) That you shall arrange electric connection from HVPNL/DHBVNL for electrification of your colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which you shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. HVPNL/DHBVNL Haryana and complete the same before obtaining completion certificate for the colony.
- i) That you shall make arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available from External Infrastructure to be laid by HSVP or any other Govt. Agency.
- j) That you shall submit no objection certificate/approval, as required under notification dated 14.09.2006 issued by Ministry of Environment and Forest, Govt. of India before executing development works at site, in this office.
- health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces and public health services free of cost to the Govt. or the local authority, as the case may be in accordable with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Rules, 1976.

- l) That you shall pay the labour cess charges as per Policy dated 04.05.2010.
- m) That you shall provide the rain water harvesting system as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- n) That you shall make the provision of solar water heating system as per HAREDA guidelines and shall be made operational where applicable before applying for an Occupation Certificate.
- That you shall use only LED fittings for internal lighting as well as for campus lighting.
- p) That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of the Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled Bank wherein you have to deposit thirty percentum of the amount from the shop buyers for meeting the cost of Internal Development Works in the colony.
- q) That you shall provide the details of calculations per Sqm/per sq ft, to the allottees while raising demand from the commercial space owners in case at the time of booking of the commercial space the IDC/EDC rates were not included and are to be charged separately as per rates fixed by Government.

- r) That you shall keep pace of the construction atleast in accordance with sale agreement executed with the buyers as and when scheme is launched.
- s) That you shall not give any advertisement for sale of commercial area before the approval of layout plan.
- t) That you have understood that provision of External Development Facilities may take long time by HSVP, the licensee shall not claim any damages against the Department for loss occurred, if any.
- u) That you shall specify the detail of calculations per Sqm/per sq ft, which is being demanded from the allottees on account of IDC/EDC, if being charged separately as per rates fixed by Govt.
- v) That no pre-launch/sale of commercial site will be undertaken before approval of the layout plans.
- w) That developer company, i.e. Divya Buildcon Pvt. Ltd. shall be responsible for compliance of all terms and conditions of license/provisions of the Act of 1975 and Rules 1976 till the grant of Final Completion Certificate to the colony or relieved of the responsibility by the Director, Town & Country Planning, Haryana whichever is earlier.
- x) That you shall permit the Director or any other officer authorized by him to inspect the execution of the layout and the development works in the colony and to carry out all directions issued by him for ensuring due compliance of the execution of the layout and development works in accordance with the license granted.
- y) That you shall obey all the directions/restrictions imposed by the Department from time to time in public interest.

- 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 Control Board or any other Authority Administering the said Acts.
- aa) That you shall integrate your bank account in which 70% allottee receipts are credited under Section-4(2)(l)(D) of the Real Estate Regulation and Development Act, 2016 with the on-line application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipts from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State treasury.
- bb) Such 10% of the total receipts from each payment made by an allottee, which is received by the Department, shall get automatically credited, on the date of receipt in Government treasury against EDC dues of the concerned license of the colonizer.

- cc) Such 10% deduction shall continue to operate till the total EDC dues get recovered from the colonizer against the said license.
- dd) The implementation of such mechanism shall, however, have no bearing on the EDC installment schedule conveyed to you. You shall continue to supplement such automatic EDC deductions with payments from its own funds to ensure that the EDC installments that are due for payment get paid as per prescribed schedule.
- ee) That you shall take prior permission from the Divisional Forest Officer, Gurugram regarding cutting of any tree in their applied site.
- ff) That you shall not create any third party rights on the mortgaged land measuring 0.2125 acres falling under Killa no. 1//7/3 min (0-17) and 14/1 min (0-17) of revenue estate Nurpur Jharsa till the same is de-mortgaged.
- 2. The license is valid up to 13/12/2027.

Dated: 14/12/2022.

(T.L. Satyaprakash, IAS) Director General, Town & Country Planning Haryana, Chandigarh

Endst. No. LC-4436/JE (DS)/2022/ 37763 Dated: 15-12-2022

A copy along with a copy of schedule of land is forwarded to the following for information and necessary action: -

- Divya Buildcon Pvt. Ltd. H-334, Ground Floor, New Rajinder Nagar, New Delhi-110060 Alongwith copy of LC-IV & Bilateral Agreement and Layout Plan.
- 2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
- 3. Chief Administrator, HSVP, Panchkula.
- 4. Managing Director, HVPNL, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
- Joint Director, Environment Haryana-Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.
- 6. Director, Urban Estates, Haryana, Panchkula.
- 7. Administrator, HSVP, Panchkula.
- 8. Chief Engineer, HSVP, Panchkula.
- Superintending Engineer, HSVP, Gurugram along with a copy of agreement.
- 10. Land Acquisition Officer, Gurugram.
- 11. Senior Town Planner, Gurugram along with a copy of Layout Plan.
- 12. Senior Town Planner (Enforcement), Haryana, Chandigarh.
- 13. District Town Planner, Gurugram along with a copy of agreement & Layout Plan.
- 14. Chief Accounts Officer (Monitoring) O/o DGTCP, Haryana.
- 15. Accounts Officer, O/o DGTCP along with a copy of agreement.

(R.S. Batth) Town Planner (HQ)

District Town Planner (HQ)
For: Director General, Town & Country Planning
Haryana Chandigarh

Detail of land owned by Divya Buildcon Pvt. Ltd.

Village	Rect. No.	Killa No.	Area (K-M)
Nurpur Jharsa	1	7/3min South	3-0
		13	5-12
		14/1	6-0
	*	18/2/1min	2-5
		Total	16-17
		Or 2	.10625 Acres

Note: - Killa no. 1//7/3min (0-17) and 14/1min (0-17) Total 1K-14M or 0.2125 acre is under mortgage.

Director General
Town & Country Planning
Haryana, Chandigarh