LC-4943

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATION OF

INTERNAL DEVELOPMENT WORKS

FOR

PROPOSED "COMMERCIAL PLOTTED COLONY AREA MEASURING 2.825 ACRES" (LICENSE NO.14 OF 2022 DATED 24.02.2022) IN THE REVENUE ESTATE OF VILLAGE BEGUMPUR KHATOLA, IN SECTOR - 73, GURUGRAM – MANESAR URBAN COMPLEX BEING DEVELOPED BY M/S EVFYME TECHNOLOGIES PVT. LTD.

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATIONS OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED "COMMERCIAL PLOTTED COLONY AREA MEASURING 2.825 ACRES" (LICENSE NO. 14 OF 2022 DATED 24.02.2022) IN THE REVENUE ESTATE OF VILLAGE BEGUMPUR KHATOLA, IN SECTOR – 73, GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY M/S EVFYME TECHNOLOGIES PVT. LTD.

REPORT :-

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. DTCP-8169 dated 24.02.2022. This report is for a part of service estimate for proposed "commercial plotted colony" area measuring 2.825 acres (License No. 14 of 2022 dated 24.02.2022) in the revenue estate of village Begumpur Khatola, Sector – 73, Gurugram – Manesar urban complex being developed by M/s Evfyme Technologies 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 2956 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 & 4th floor and maintenance staff and considering @ 90% for official @ 45 LPCD and @ 10% for visitors @ 15 LPCD and other requirement etc. as per design calculations.

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**

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. **COST**

The total cost of the scheme including cost of all services works out to Rs. ~~272.04~~ 334.40 Lacs (~~Rupees Two Crores Seventy Two Lacs Four Thousand only~~) including 3% contingencies and 49% departmental charges + price as calculation and cost per acre comes out to Rs. ~~96.30~~ 118.37 Lacs.

For EVERYMS Technologies Pvt. Ltd.
(Authorized Signatory)

Director/Authorised Signatory

Ar. VIKAS AHLAWAT
CA/2013/[illegible]

DESIGN CALCULATION

Total Area of Plot (Commercial)	=	2.825 Acres Or 11432.358 Sqm
Permissible Ground Coverage @ 35%	=	4001.325 Sqm
Permissible FAR @ 150%	=	17148.537 Sqm
Proposed Ground coverage	=	4000.345 Sqm
Area Under Public Utility	=	48.00 Sqm
Proposed FAR Achieved	=	17144.335 Sqm
Nos. Of S.C.O.'s / Plots	=	33 Nos.

I) WATER REQUIREMENT

A). Ground + First Floor

1 Area on Ground Floor (Shopping Area) S.C.O.'s/Plots	=	4000.345 Sqm
Occupancy @ $3m^2$ / person	=	1334 Persons
2 Shopping area on First floors	=	4000.345 Sqm
Occupancy @ 6 m^2/person	=	667 Persons
Total occupancy	=	**2001 Person**
Water Requirement @ 10% shopkeeper =200 nos. @ 45 LPCD	=	9000 LPD
Water Requirement @ 90% visitors =1801 nos. @ 15 LPCD	=	27015 LPD
Total	=	**36015 LPD.....(A)**

B. 2nd Floor & 4rth Floor (Office Area)

i) Office Area (Remaining area 17144.335 – 8000.75)	=	9143.585 Sqm
Occupancy @ 10 m^2 / Person	=	915 Persons
Water Requirement @ 90% official = 824 Persons @ 45 LPCD	=	37080 LPD
Water Requirement @ 10% visitors = 91 Nos @ 15 LPCD	=	1365 LPD
Total	=	**38445 LPD.....(B)**

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.	=	40 Persons
Water Requirement @ 45% LPCD	=	1800 LPD .....(D)
Total Water Requirement (A+B+C+D)	=	81,260.00 LPD
		OR 81.26 KLD Say 90 KLD

II) FIRE DEMAND

(i) For UGT i.e. Population		= 2956 Persons
(p) ½ x 100/1000/3 = (2.956) ½ x 100/3		= 57.30 KLD
Add. 10% extra for marginal factor		= 5.73 KLD
		= 63.03 KLD Say 70 KLD

III) Garden Irrigation Requirement (For Total Area) = **25.00 KLD**

IV. Total Water Requirement = **90.00 KLD**
(Excluding Fire Demand)

Hence Domestic Water Requirement (67%)	= 90 x 67%	=62.00 KLD
Hence Flushing Water Requirement (33%)	= 90 x 33%	=30.00 KLD
Day Requirement @ 60%	= 37.20 K.L. for Domestic Say 40.00 K.L.	
UGT for Flushing w/s + Hort. (30+25 Hort) x 60%.	= ~~18.00~~ 33 KL K.L. for Flushing Say ~~20.00 K.L.~~ 35 KL	

But it is proposed to construct an underground tank capacity 40 K.L. in two compartment for domestic use, ~~20~~ 33KL K.L. for non-potable water in two compartment (at STP) and 70 K.L. for fire fighting purposes for UGT in two compartment as shown location in the plan with UGT.

Total Capacity of UGT = 40 + 70 = 110.00 KLD

V. Tube Well **For UGT**

a) Yield = 15 K.L. / Hr.
b) Working Hour per day = 16 Hr. / Per Day
c) Total water demand = 62 M3/Day
d) Number of tube well required (Water Demand / Discharge / Hr. working Per day) = 0.258
e) Add 5% extra = 0.012

Total = 0.271 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 = 9.80 H.P.
HP = (4.50 x 98) / (75 x 0.60)

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 = **62.00 KLD**
Pumping per hour @ 8 hr. pumping / day = 62 /8 KL / hr.
= 7.75 KL / hr.
= 129.17 lpm = 2.16 lps
Say 3.00 lps

Gross working head **For UGT**
Suction lift = 7.00 mts.

-	Frictional loss in mains & specials	= 6.00 mts.
-	Clear Head required	= 35.00 mts.
Total		= 48.00 mts.
Say		= 48.00 mts.
Pump HP		= (3.00x48)/(75x0.60)
		= 3.20 H.P.
	Say	= 5.00 HP

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

!!!) Boosting Machinery for flushing water at STP

Total Water Requirement		**= 30 K.L.D**
Pumping per hour @ 8 hr. pumping / day		= 30 /8 KL / hr.
		= 3.75 KL / hr.
		= 62.50 lpm = 1.04 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.
Say		= 48.00 mts.
Pump HP		= (2.00x 48) / (75 x 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		**= 25 KLD**
Pumping per hour @ 5 hr. pumping / day		= 25 /5 KL / hr.
		= 5.00 KL / hr.
		= 83.33 lpm = 1.38 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 x 31) / (75 x 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 plumbing

DG Set Requirement

Submersible Pump	(1 x 10)	= 10.00 HP
Domestic Pump	(1 x 5.00)	= 5.00 HP
Flushing Pump	(1 x 3.00)	= 3.00 HP
For External Electrification		= 5.00 HP
For Irrigation		= 2.00 HP
Total pump load		**= 25.00 HP**
		= 25.00 x 0.746 x 1.50
		= 27.975 K.W
Total DG capacity		**= 1 No. 33 KVA**

Hence it is proposed to provide 1 No. D.G. Set of 33 KVA capacity

VI) FLOW TO SEWAGE TREATMENT PLANT

Total Water Requirement = 62 KLD for domestic & 30 KLD for flushing

i) 80% of total Domestic Water Demand = 80% of 62 KLD = 49.60 KLD

ii) 80% of total Flushing Water Demand = 80% of 30 KLD = 24.00 KLD

Total = 73.60 KLD

Considering 5% marginal factor = 3.68 KLD

G. Total = 77.28 KLD

Say 80 KLD

Proposed STP Capacity = 80 KLD Or 0.08 MLD

For EVFYME Technologies Pvt. Ltd.

Director/Authorised Signatory

(Authorized Signatory)

Ar. VIKAS AHLAWAT
CA/2013/59929

FINAL ABSTRACT OF COST

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	SUB WORK NO.I	WATER SUPPLY SCHEME	~~58.20~~ 79.30
2	SUB WORK NO. II	SEWERAGE SCHEME	~~56.60~~ 32.59
3	SUB WORK NO. III	STORM WATER DRAINAGE	~~25.70~~ 35.84
4	SUB WORK NO. IV	ROAD NETWORK	~~58.80~~ 93.11
5	SUB WORK NO. V	STREET LIGHTING	~~5.21~~ 10.84
6	SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	6.26
7	SUB WORK NO. VII	MTC. OF SERVICES & RESURFACING OF ROADS	~~61.27~~ 76.44
		TOTAL	~~272.04~~ 334.38
~~TOTAL : (Rupees Two Crore Seventy Two Lacs Four Thousand only)~~			say Rs 334.40 Lakh.

334.40 118.37

Cost Per Acre = Rs.~~272.04~~ Lacs / 2.825 = Rs. ~~96.30~~ Lacs Per Acre

For EVFYME Technologies Pvt. Ltd.

AUTHORISED SIGNATORY
Director/Authorised Signatory

Ar. VIKAS AHLAWAT
CA/2013/59929

Executive Engineer
HSVP Division No.V,
Gurugram

Checked subject to comments in forwarding letter No. 46349 Dt. 24/03/2022 and notes attached with the estimate

Superintending Engineer,
HSVP Circle, Gurugram

Director

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	~~14.55~~ 19.15
2	Sub Head No. 02	Pumping Machinery	~~7.20~~ 11.20
3	Sub Head No. 03	Rising Main from Plant Room (Dom + Flush W/S)	~~11.79~~ 15.61
4	Sub Head No. 04	External Fire Hydrants	~~2.75~~ 3.73
5	Sub Head No. 05	Irrigation	~~1.63~~ 1.98
		TOTAL PE charges	~~37.92~~ 51.67
		Add 3% contigencies & ~~P.H. Services~~	~~1.14~~ 1.55
		TOTAL	~~39.06~~ 53.22
		Add 49% Departmental Charges + Price escalation	~~19.14~~ 26.08
		TOTAL	~~58.20~~ 79.30
		Say in Lacs	~~58.20~~ 79.30 Lakh.

SUB WORK NO. 1 **WATER SUPPLY**
Sub Head No. 01 **HEAD Works**

Sr. NO.	Description	Amount in Rs.
1	Construction of U.G. tanks and Fire TanK Including pipes, valve & Specials. i) UGT 110 KLD @ Rs. ~~3500~~ 4500/- per K.L.D 250,000/-	~~385000.00~~ 495000/-
2	Provision for construction of Boosting Station 1 Nos @ Rs. ~~200000~~/- each	~~200000.00~~ 250,000/-
3	Boring and installing tube well reverse rotary rig complete with pipes and strainer to a depth of about 120 Mtr complete in all respect. 1 Nos @ Rs. ~~700000/- each~~ 10,00,000/-	~~700000.00~~ 10,00,000/-
4	Provision for construction of tube well chamber size 1.50m x 1.50m complete in all respect. 1 Nos @ Rs. 100000/- each	100000.00
5	Provision for carriage of material and unforeseen items L.S.	20000.00
6	Provision of special for tube well and rising main to U.G.T. L.S.	50000.00
	TOTAL	1455000.00 15000/-
	Say in Lacs	~~14.55~~ 15 Lakh.

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

WATER SUPPLY
Pumping Machinery

SUB WORK NO. 1
Sub Head No. 02

Sr. NO.	Description	Amount in Rs.
1	Providing and installing Hydro pneumatic pumping set of following capacities for domestic water Supply with specials 75000/-	150,000/-
	3.00 lps at 48 mts head - 2 No. (1W+1SB) - @ Rs. ~~60,000~~/- each Set (5.00HP)	~~120000.00~~
2	Providing and installing Hydro Pneumatic pumping set of following capacities for Flushing water supply 60,000/-	120,000/-
	2.0 lps at 48 mts head - 2 No. (1W+1SB) @ Rs. ~~30,000~~/- 1 Set (3.00 HP each)	~~60000.00~~
3	Providing and installing Submersible pump for tube wells with specials	
	4.50 lps at 98 mts head - 1 Nos (1W) @ Rs. ~~2~~00,000/- 1 Set (10HP each)	~~1~~00000.00 2
4	Providing and installing Hydro Penumatic pumping set of following capacities for irrigation drainage 50,000/-	1,00,000/-
	2.00 - lps at 31 mts head 2 Nos (1W + 1SB) @ Rs. 15,000/- (2.0 HP)	~~30000.00~~
5	Provision for D.G. Set for stand by arrangement for all machinery = 1 No. 33 KVA @ Rs. ~~2,50,000~~/- each 10,000/- Per KVA	~~250000.00~~ 3,30,000/-
6	Provision for making foundations & erection of pumping machinery	~~20000.00~~ 50,000/-
7	Provision for pipes, valve & specials inside boosting chamber	~~20000.00~~ 50,000/-
8	Provision for electric services connection including electric fittings for boosting chambers and pump chamber etc.	100000.00
9	Provision for carriage of materials and other unforeseen items L.S.	20000.00
	TOTAL	~~720000.00~~ 11,20,000/-
	Say in Lacs	~~7.20~~ 11.20 Lakh.

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

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SUB WORK NO. 1 **WATER SUPPLY**

Sub Head No. 03 **Rising main upto Plant Room, Domestic & Flushing Water Supply**

Sr. NO.	Description	Amount in Rs.
1	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects 1250/-	1310,000/-
i)	100mm dia D.I. Pipe 1048 Mtr @ Rs. ~~1000/-~~ Per Mtr	~~1048000.00~~
ii)	150mm i/d D.I. Pipes - 6 Mtr @ Rs. ~~1200/-~~ 1575/- Per Mtr	~~7200.00~~ 9450/-
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect 12000/-	
	i) 100mm i/d 5 No. @ Rs. ~~7500/-~~ each	~~37500.00~~ 60,000/-
	ii) 150mm i/d 1 No. @ Rs. ~~10000/-~~ each 15000/-	~~10000.00~~ 15000/-
3	Providing and fixing indicating plates for sluice valve 6 No. @ Rs. 1000/-	6000.00
4	Provision for carriage of materials and other unforeseen items	20000.00 30,000/-
5	Provision for making connection with Govt. Pipe etc.	20000.00 1,00,000/-
6	Provision for cutting the road and making good the same	30000.00 —
	TOTAL	~~1178700.00~~ 1560450/-
	Say in Lacs Rs 15.61 Lakh. ~~11.79~~	

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

SUB WORK NO. 1
Sub Head No. 04

WATER SUPPLY
Fire Rising Main

Sr. NO.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing Heavy Class M.S. Pipes for fire rising main including cost of fittings, valves, connection etc. complete in all respect 1250/-	112500/-
a)	100mm dia - 90M @ Rs. ~~1000~~/- Per Mtr	~~90000.00~~
	15000/-	225000/-
2	Providing and fixing fire Hydrant with accessories 15 No. @ Rs. ~~10000~~/- each	150000.00
3	Provision for carriage of materials (Lump sum)	10000.00
4	Providing and fixing indicating plate -15 No. @ Rs. 1000/- each	15000.00
		10,000/-
5	Provision of road cutting and making its condition as original - L.S.	~~10000.00~~
	TOTAL	~~275000.00~~ 372500/-
	Say in Lacs Rs 3.73 Lakh. ~~2.75~~	

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

SUB WORK NO. 1 **WATER SUPPLY**
Sub Head No. 05 **Irrigation**

Sr. NO.	Description	Amount in Rs.
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	45000/-
	i) 25mm i/d 150 M @ Rs. ~~150/-~~ 300/- Per Mtr	~~22500.00~~
2	Providing and fixing 20mm dia, Irrigation hydrant valve complete in all respect 25 No. @ Rs. ~~3000/-~~ 3500/- each	~~75000.00~~ 87500/-
2	Provision for indicating plates with boxes etc.	
	25 Nos. @ R.s 1000/- Each	25000.00
3	Provision for carriage of materials and other unforeseen items (Lump sum)	20000.00
4	Provision for road cutting and making as original condition L.S.	20000.00
		197500/-
	TOTAL	~~162500.00~~
	Say in Lacs	~~1.63~~ 1.98 Lakh.

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

SUB WORK NO. II **SEWERAGE SCHEME**

Sr. NO.	Description	Amount in Rs.
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 1250/-	1875a/-
	a) SW Pipe 200mm i/d avg. depths 0 - 2.00M 150 M @ Rs. ~~1200~~/- per Mtr	~~180000.00~~
	b) SW Pipe 250mm i/d avg depth 2.00 M 218 M @ Rs. ~~1300~~/- per Mtr 1300/-	~~283400.00~~
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) 1575/-	327000/- 189000/-
	a) 150MM i/d D.I. Pipe - 120 M @ Rs. ~~1200~~/- Per Mtr	~~144000.00~~
		20,000/-
3	Provision of lighting and watching etc.	~~10000.00~~
4	Provision for cartage of material & cutting of roads etc.	20000.00
		1,00,000/-
5	Provision for making connection with Govt. sewer line	~~50000.00~~
6	Provision for STP 80 KLD (Tertiary Treatment Level with recycling storage). Complete in all respect. L.S. @ Rs 16000/- Per KLD including cost of flushing tanks of 3.5KL	~~3000000.00~~ 1280,000/-
	~~TOTAL~~ PE charges	~~3687400.00~~ 2123500/-
	Add 3% contigencies & ~~P.H.~~ Services	~~110622~~ 63705/-
	TOTAL	~~3798022~~ 2187205/-
	Add 49% Departmental Charges + Price escalation	~~1861031~~ 1071730/-
	TOTAL	~~5659053~~ 3258935/-
	Say in Lacs Rs 32.59 Lakh	~~56.60~~

(C/O to Final Abstract of cost)

SUB WORK NO. III **STORM WATER SCHEME**

Sr. NO.	Description		Amount in Rs.
1	Providing, lowering, laying, jointing RCC pipe class Np3 with cement joint, manholes, specials into trenches including manholes, chambers etc. excavation, backfilling and disposal of surplus earth complete in all respect 2500/-		1175000/-
	a) RCC Np3 pipe 400mm i/d = 470 M @ Rs. ~~1200~~/- Per Mtr		~~564000.00~~
2	Provision for road gulley & with pipe connection L.S.		250000.00
3	Provision for lighting and watching L.S.		20000.00
4	Provision for timbering and shoring L.S.		20000.00
5	Provision for cartage of material L.S.		20000.00
			1,00,000/-
6	Provision for making connection with Govt. storm water drain L.S.		~~50000.00~~
7	Providing rain water harvesting arrangement for 03 No. pits @ Rs. 250000/- each		750000.00
		TOTAL PE charges	~~1674000.00~~ 2335000/-
		Add 3% contigencies & ~~P.H.~~ Services	~~50220.00~~ 70050/-
		TOTAL	~~1724220.00~~ 2405050/-
		Add 49% Departmental Charges + Price escalation	~~844867.80~~ 1178475/-
		TOTAL	~~2569087.80~~ 3583525/-
		Say in Lacs Rs 35.84 Lakh	~~25.70~~

(C/O to Final Abstract of cost)

Sub Work No. 4 **ROAD WORKS**

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
		~~2956~~			
1	Provision for leveling & earth filling as per site conditions	~~62~~ Per Acre	2.825	150000	423750
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 (~~250~~ 240mm GSB, ~~300~~ 250mm WMM, ~~40~~ 25mm BC).	25	2120	1200/- ~~600~~	2544000/- ~~1272000~~
3	U. ~~G Tank (Domestic + Fire) 110 KLD~~ Prov. & fixing Kerb & channels	Metre	1490	600/- ~~500~~	894000/- ~~745000~~
4	Provision for making approach and pavement to building, provision for C.C pavement	Sqm	L.S.		2,00,000/- ~~50000~~
5	Interlocking tile 80mm thick for surface of pavement etc. over c.c. base	Sqm	2540	750/- ~~500~~	1905000/- ~~1270000~~
6	Provision for parking arrangement, guide map and indicating board & plot indication etc	LS			50000
~~7~~ (7)	~~Generating sets (33KVA)~~	LS	~~33 KVA~~		~~20000~~
	~~S.T.P. (80 KLD)~~ Provision for carriage of material & unforeseen				50,000/-
	Sub Total				~~3830750~~ 6066750/-
	Add 3% contingencies & ~~PH Services~~ PE charges				~~114923~~ 182003/-
	Sub Total				~~3945673~~ 6248753/-
	Add 49% Departmental Charges				~~1933380~~ 3061889/-
	Total				~~5879052~~ 9310642/-
	Say Rs. In Lacs Rs 93.11 Lakh				~~58.80~~

(C.O. to Final abstract of cost)

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	2.825	~~120000~~ 250,000/-	~~339000~~ 706250/-
	Add 3% contingencies & ~~PH Services~~ PE charges				~~10170~~ 21188/-
	Total				~~349170~~ 727438/-
	Add 49% Departmental Charges				~~171093~~ 356444/-
	Total				~~520263~~ 1083882/-
	Say Rs. In Lacs				~~5.21~~ 10.84

(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				
b.	Rough dressing of turfed area				
c	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				
d	organized green 2200 Sqm (Appx)Or 0.55 Acres (Considering for part area L.S.)	Acre	0.55	150000	82500
2	Providing and planting trees along boundary @ 6 m interval (Length appx 1490M) = 1490/6 = 249 Nos Say No. of trees = 250 Nos Cost details : Excavation = Rs. 60 Manure = Rs. 90 Tree Plant = Rs. 150 Tree Guard = Rs. 1000 Total = Rs. 1300	Each	250	1300	325000
	Sub Total				**407500**
	Add 3% contingencies & ~~PH Services~~ PE charges				12225
	Sub Total				**419725**
	Add 49% Departmental Charges				205665
	Total				**625390**
	Say Rs. In Lacs				**6.26**

(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 19.4255 acres @ Rs. ~~3.00~~ 7.50 lacs per acre	Acre	2.825	~~250000~~ 750,000/-	~~706250~~ 2118750/-
2	Provision for resurfacing of roads after 5 years of 1st phase with provision of 50mm thiCK BM including leveling coarse and 25mm BC premix carpet as per crust design whichever is safer	Sqm	2120	~~800~~ 600/-	~~1696000~~ 1272000/-
3	2nd phase after next five years of 2nd phase (50mm DBM & 25mm BC premix carpet or as per crust design whichever is safer	Sqm	2120	750	1590000
	Sub Total PE charges				~~3992250~~ 4980750/-
	Add 3% contingencies & ~~PH Services~~				~~119768~~ 149423/-
	Sub Total				~~4112018~~ 5130173/-
	Add 49% Departmental Charges				~~2014889~~ 2513785/-
	Total				~~6126906~~ 7643958/-
	Say Rs. In Lacs Rs 76.44 Lakh.				~~61.27~~

(C.O. to Final abstract of cost)