Directorate of Town & Country Planning, Haryana

Yojana Bhavan, Plot no. 3, Sector-18 A, Madhya Marg, Chandigarh Web site tcpharyana.gov.in - e-mail: tcpharyana?@gmail.com

Regd.

(LC-IX) [[See Rule 16(2)]]

To

Esmax Infradevelopers Pvt. Ltd, Regd. Office: 10, Sector-32, Karnal-132001.

Memo No. LC4453/ JE (SB)/2024/ 26996 Dated: 23/08/29

Subject: -

Issuance of Completion Certificate of License No. 121 of 2021 dated 31.12.2021 granted for setting up of Commercial Plotted Colony over an area measuring 2.325 acres falling in the revenue estate of village Phoosgarh, Sector-32, Karnal.

Refer to your application received on 20.07.2023 for grant of completion certificate in respect of Commercial Plotted Colony measuring 2,325 acres falling in the revenue estate of village Phoosgarh, Sector-32, Karnal bearing Licence No. 121 of 2021 dated 31.12.2021.

2. Chief Engineer-II, HSVP, Panchkula vide their memo no. CE-II/SE(HQ)/EE(M)/SDE(G)/2024/92706 dated 10.04.2024 informed that the services with respect to Commercial Plotted Colony measuring 2.325 acres falling in the revenue estate of village Phoosgarh, Sector-32, Karnal bearing Licence No. 121 of 2021 dated 31.12.2021 have been got checked and reportedly laid a* site and are operational/functional.

Senior Town Planner, Panchkula vide their memo no. 1070 dated 10.04.2024 confirmed about laying of the colony as per approved layout plans.

Superintending Engineer/planning, HVPNL, Panchkula vide memo no. CH-4/SE/PLG/File No. 34/UH/137 dated 12.06.2024 in reference to SE/Monitoring, UHBVNL-Panchkula letter no. CH-22/SE/Mon/Elect.Plan/170/KNL/2022-23 dated 10.06.2024 has informed that the developer has laid the electrical infrastructure in the colony as per approved electrical infrastructure plan/estimate.

- 3. In view of these reports it is hereby certified that the required development works in the said Commercial Plotted Colony over an area measuring 2.325 acres as indicated on the enclosed layout plan duly signed by me read in conjunction with the following terms and conditions have been completed to my satisfaction. The development works are water supply, sewerage, storm water, Grainage, roads, horticulture & electrification etc. The completion certificate is granted on the following terms and conditions:
 - a) That you shall be fully responsible for operation, upkeep and maintenance of all roads, open space, public parks and public health services like water supply, sewerage and drainage etc. for a period of five years from the date of issuance of final completion certificate or earlier relieved of said responsibility and thereafter transfer all such roads, open space, public parks and public health services like water supply, sewerage and drainage etc. free of cost to the Government or the Local Authority as directed.
 - b) The services will be laid by the colonizer upto alignment of proposed external services of the town and connection with the HSVP system will be done with the prior

approval of the competent authority. In case pumping is required, the same will be done by the colonizer at its own cost. The services will be provided as per provision in the EDC of Karnal.

- c) That you shall be solely responsible for making arrangement of water supply and disposal of sewage and storm water of their colony as per requirement/guidelines of HSPCB/Environment Department till such time, the external services are provided by HSVP/State Government as per their scheme.
- d) Level/Extent of the services to be provided by HSVP i.e. water supply sewerage, SWD, roads etc. will be proportionate of EDC provisions.
- e) That you shall maintain the roof top rain water harvesting system properly and shall keep it operational all the time.
- f) That in case some additional structures are required to be constructed and decided by HSVP at a later stage, the same will be binding upon you. Flow control valves will be installed, preferably of automatic type on water supply connection with HSVP water supply line.
- g) That the NSL formation level of roads have been verified and are correct. You shall be responsible in case of any mistake in levels etc.
- h) That you shall neither erect nor allow the erection of any communication and transmission Tower with in colony without prior approval of competent authority.
- i) That you shall use LED fittings for street lighting in the licensed colony.
- That you shall comply with the conditions of Service Plan/Estimates approved by the Department vide memo no. 19059 dated 15.06.2023 and the conditions imposed by CA-HSVP, Panchkula.
- k) That you shall abide by all prevailing norms/rules and regulations as fixed by HSVP/local authority.
- That you shall keep all the services including water supply and sewerage treatment plant functional at site without any hindrance.
- m) That you shall get re-validate the bank guarantee on account of IDW before 30 days of its expiry.
- n) That you shall demolish toe wall & grill constructed over the area reserved for 12 mtr. wide service road as and when demanded by the Government.
- That you shall comply with the terms and conditions as approved from the concerned power utility.

This completion certificate shall be void-ab-initio, if any of the condition mentioned above is not complied with and this approval will not provide any immunity from any other Act/Rules/Regulations applicable to the land in question.

DA/As above.

(Amit Khatri, IAS) Director,

Town and Country Planning, Haryana, Chandigarh. A copy is forwarded to the following for information and necessary action: -

- The Chief Administrator, HSVP, Sector-6, Panchkula.
- Senior Town Planner, Panchkula.
- 3. District Town Planner, Karnal.
- 4. Chief Account Officer of this Directorate.
- Project Manager (IT) with a request to host this approval on website.

(Divya Dogra)

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

Haryana, Chandigarh

PROPOSED COMMERCIAL PLOTTED COLONY OVER AN AREA MEASURING 2.325 ACRES IN SECTOR-32, KARNAL.

BEING DEVELOPED BY: - M/s SAI BABA HABITAT PVT. LTD.

INCOLLABORATION WITH: - M/s ESMAX INFRADEVELOPERS PVT. LTD.

SERVICE PLAN ESTIMATE FOR PROVIDING
WATER SUPPLY, SEWERAGE, STORM WATER
DRAINAGE, CONSTRUCTION OF ROADS &
PARKINGS, STREET LIGHTING AND
HORTICULTURE WORKS ETC.

M/s SAI BABA HABITAT PVT. LTD. 10, SECTOR-32, KARNAL-132001 (HARYANA) SERVICE PLAN ESTIMATE FOR PROVIDING WATER SUPPLY, SEWRAGE, STORM WATER DRAINAGE, CONSTRUCTION OF ROADS, STREET LIGHTING AND HORTICULTURE WORKS FOR A COMMERCIAL PLOTTED COLONY ON AN AREA MEASURING 2.325 ACRES. IN SECOR-32, KARNAL.

BEING DEVELOPED BY : - M/s SAI BABA HABITAT Pvt. Ltd.

IN-COLLABORATION WITH: - M/s ESMAX INFRADEVELOPERS Pvt. Ltd.

INTRODUCTION

Karnal is an important Town of Haryana State. It has been decided by the Haryana Govt. to establish various sectors in Karnal. Accordingly Sector-32 & 33 have been developed by the HSVP recently and the allotties have been occupied their plots after constructing their houses in these sectors. Keeping in view the demand of the residents to fulfill their daily requirement of house hold goods as well as commercial activities the license No. 121 of 2021 has been granted by the DTCP Haryana Chandigarh vide his endst No. LC-4453/JE (SB)/2021/ 225 dt. 04.01.2022 to developed a commercial plotted colony as on an area of 2.325 Acres in sector-32, Karnal which is to be developed by M/s Sal Baba Habitat Pvt. Ltd., incollaboration with M/s Esmax Infradevelopers Pvt. Ltd.

Accordingly, this service plan estimate has been prepared for the probable cost of this colony. The brief detail of proposed development works to be executed in this colony are as under: -

WATER SUPPLY: -

At present the source of water supply in this area is tube well based as the underground water is potable as such provision of 1 No. tube well with submersible motor of 7.50 HP with a discharge of 15 KL at a head of 50 mtr. has been made. It has also been proposed to construct 1 No. underground tank of capacity 70 KL for domestic purposes and 40 KL capacity for firefighting arrangement. The underground tanks will be filled up from the proposed tube well and the water will be pumped to the tanks proposed on the terrace of each building in the colony.

2. DESIGN: -

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The scheme has been designed for approximately 1317 persons considering 1 person per 10 sqmtr. of the total proposed covered area 13172 Sqmtrs. Upto the 4 stories of the proposed SCOs & Shops as in the approved layout plan. The requirement for the proposed water supply scheme has been taken as 45 liters per capita per day (lpcd) and besides the above, necessary provisions for water requirement for the proposed area of PUSs, plantations, Roads & Parkings Washing etc. have also been taken into consideration.

PUMPING EQUIPMENTS:-

It has been proposed to install a pumping set next to underground tank at pumping chamber and there would be two pumps, one working and one standby. The provision for Diesel Generating set as a stand by source of power in case of any electricity failure has also been made. Provision has also been made for Chlorination of water before distribution to the public/buildings.

SEWERAGE SCHEME :-

The sewerage network of the commercial plotted colony shall be connected to the proposed 60 KL capacity Sewage Treatment Plant . The treated water will be used for flushing and landscape irrigation for which the Flushing Water Supply has been proposed in the estimate and surplus treated water/sewage will be discharged into the fields or in the exiting main YAP sewer line, already laid on the main road infront of this colony. The sewerage system has been designed for 3 times of average DWF. It has been assumed that 75% of domestic water supply shall find its way into the proposed sewer. All the sewer lines of 200mm I/d have been designed to run half-full for which necessary design statement for the entire sewerage system as well as flushing system have been prepared and attached in this estimate. Sewer lines have been designed for a minimum self cleaning velocity of 2.53 ft./sec. for which S.W. pipes will be used for sewer lines. All the manholes and related appurtenances shall be constructed as per standard design.

5. STORM WATER DRAINAGE :-

The design rainfall intensity has been considered as ^{1/2*} per hour for the proposed development area. Pipe drains of minimum 400mm dia RCC NP-3 pipes have been proposed for the storm water drainage system. Road gully chamber will collect the storm water from the surface and discharge into the manholes through RCC NP-3 pipes. The internal storm water drains shall be connected to the proposed Rain Water Harvesting Well/Pit to disposed-off the storm water to the underground water table. The velocity of storm water in the pipe has been considered as minimum of 2.52 ft./sec. All the pipes are considered as running full and necessary design statement for the entire storm water drainage system has been prepared and attached in this estimate.

ROADS AND PARKINGS :-

The construction of roads and parkings has been proposed to be constructed with the specifications as under:-

- 100mm thick interlocking tiles over
- 200mm thick WMM over
- 150mm thick GSB.
- Krebs and channels as per site requirement.

25 mm BC Over 25 somm DBM over 2000 WMM over 2000 GSB

In addition to above the provisions for Horticulture works, Electrification and street Lighting have also been taken in the estimate as per the prevailing practice in HSVP.

The required arrangement for providing the fresh water supply and disposal of sewerage and storm water will be done by the licensee at his own level, till the external services will be provided/ to be laid and made functional by the HSVP.

SPECIFICATIONS:-

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

9. RATES :-

The estimate has been based on the present-day market rates of material and labour with escalation.

10. COST :-

The total cost of the scheme, including cost of all services works out of Rs. 672.40 lacs including 3% contingencies and 49% departmental charges, price escalation charges.

11. **DEVELOPMENT COST:**

DEVELOPMENT COST:
The development cost for 2.325 Acres works out to Rs. 289.20 lacs per Acre.

12. Mtc. COST :-

The Mtc. cost for the Services, Roads & Parkings for 10 years after the completion of works have also been taken in this estimate. Esmax Infradevent estimate.

AUTHORIZED SIGNTAURE Auth. Sign.

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FORM LC -V (See Rule 12) HARYANA GOVERNMENT TOWN AND COUNTRY PLANNING DEPARTMENT

Licence No. 121. __ of 2021

This License has been granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rules 1976, made there under to Sai Baba Habitat Pvt. Ltd. in collaboration with Esmax Infradevelopers Pvt. Ltd., Regd. Off. 10, Sector-32, Karnal for setting up of Commercial Plotted Colony over an area measuring 2.325 acres falling in the revenue estate of village Phoosgarh, Sector-32, Karnal.

- The License is granted subject to the following conditions:
- That Commercial Plotted Colony will be laid out in accordance with the approved layout plan.
- ii. That the conditions of the agreements already executed are duly fulfilled and the provisions of Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made thereunder are duly complied with.
- iii. That you will pay the Infrastructure Development Charges amounting to Rs. 70,56,957/-@ Rs.500/- per sq. mtr for the commercial area (150 FAR), in two equal installments. First installment will be due within 60 days of grant of license and second installment within six months of grant of license failing which 18% PA interest will be liable for the delayed period.
- iv. That the licensee shall maintain and upkeep of all roads, open spaces, public park and public 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, public parks and public health services free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
- v. 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.
 - 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.
- vii. That you shall integrate the services with Haryana Shahri Vikas Pradhikaran services as and when made available.
- viii. The you have not submitted any other application for grant of license for development of the said land or part thereof for any purpose under the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the provision

Director vi. & Chunta Planning is , and, Chundigada of the Punjab Scheduled Roads and Controlled Area Restrictions of Unregulated Development Act, 1963.

- ix. That you shall understands that the development/construction cost of 24 m/18 m major internal roads is not included in the EDC rates and they shall pay the proportionate cost for acquisition of land, if any, alongwith the construction cost of 24 m/18 m wide major internal roads as and when finalized and demanded by the Department.
- X. That you shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable before execution of development works at site.
- xi. That you shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of DTCP till these services are made available and the same is made functional from External Infrastructure to be laid by Haryana Shahari Vikas Pradhikaran services or any other execution agency.
- xii. That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Land Act, 1900 and any other clearance required under any other law.
- xiii. That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
- xiv. That the provision of solar water heating system shall be as per guidelines of Haryana Ranewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
- xv. That you shall use only LED fitting for internal lighting as well as campus lighting.
- xvi. That you shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- xvii. That it will be made clear at the time of booking of plots/commercial space that specified rates include or do not include EDC. In case of not inclusion of EDC in the booking rates, then it may be specified that same are to be charged separately as per rate fixed by the Govt. You shall also provide detail of calculation of EDC per sqm/per sft to the allottees while raising such demand from the plot owners.
- xviii. That you shall keep pace of development at least in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- xix. That you shall arrange power connection from UHBVNL/DHBVNL for electrification of the colony and shall install the electricity distribution

infrastructure as per the peak load requirement of the colony for which licencee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services (i.e. UHSVNL/DHSVNL and complete the same before obtaining completion certificate for the colony.

- xx. That you shall pay the labour cess as per policy instructions issued by Haryana Government vide memo no. Misc-2057-5/25/2008/2TCP dated 25.02.2010.
- xxi. That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled bank wherein ticencee have to deposit thirty percentage of the amount received from the plot holders for meeting the cost of Internal Development Works in the colony.
- xxii. That no further sale has taken place after submitting application for grant of license.
- xxiii. That you shall not give any advertisement for sale of plots/commercial are before the approval of layout plan.
- xxiv. That you shall construct the access to the site upto higher order road in concurrence with the concerned authority before allotment of plot.
- xxv. That you shall follow the provisions of the Real Estate (Regulations and Development) Act, 2016 and Rules framed thereunder shall be followed by the applicant in letter and spirit.
- xxvi. That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of applied land.
- xovii. That you shall integrate the bank account in which 70 percent allottee receipts are credited under Section-4(2)(i)(D) of the Real Estate Regulation and Development Act, 2016 with the online application/payment gateway of the Department, in such manner, so as to ensure that 10% of the total receipt from each payment made by an allottee is automatically deducted and gets credited to the EDC head in the State treasury.
- xxviii. That such 10% of the total receipt from each payment made by the allottee, which is received by the Department shall get automatically credited, on the date of receipt in the Government treasury against EDC dues.
- xxix. That such 10% deduction shall continue to operate till the total EDC dues get recovered from the owner/developer.
- XXX. The implementation of such mechanism shall, however, have no bearing on EDC installment schedule conveyed to the owner/developer. The owner/developer shall continue to supplement such automatic EDC deductions with payments from its own funds to ensure that by the EDC installments that are due for payment that paid as per the prescribed schedule.

2. The license is valid up to 30/12/2026.

(K. Makrand Pandurang, IAS)
Director,
Town & Country Planning
Haryana, Chandigarh

Dated: 31 2021. Place: CHANDIGARH.

Endst. No. LC-4453/JE (58)/2021/ 225

Dated: 04-01-2022

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

1 Esmax Infradevelopers Pvt. Ltd., Regd. Off. 10, Sector-32, Karnal along with a copy of agreement, LC-IV & Bilateral Agreement and Layout Plan.

Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.

Chief Administrator, HSVP, Panchkula.

 Managing Director, HVPNL, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.

 Joint Director, Environment Haryana-Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.

Director, Urban Estates, Haryana, Panchkula.

Administrator, HSVP, Panchkula.

Chief Engineer, H5VP, Panchkula.

Superintending Engineer, HSVP, Panchkula along with a copy of agreement.

10. Land Acquisition Officer, Panchkula.

- Senior Town Planner, Panchkula along with a copy of Layout Plan.
- 12. District Town Planner, Karnal along with a copy of agreement & Layout Plan.
- 13. Chief Accounts Officer (Monitoring) O/o DTCP, Haryana.
- Accounts Officer, O/o DTCP along with a copy of agreement.

(Rohit Chauhan)
District Town Planner (HQ)
For Director, Town & Country Planning
Haryana Chandigarh

Detail of land owned by Sai Baba Habitat Pvt. Ltd.

Village	Rect. No.	Killa No.	Area (K-M)
Phoosgarh	10	10/2	2-11
		9/2	3-2
		12/2/1	1-8
	72	12/1/1	5-14
		11/1	5-17

Total 18-12 OR 2.325 Acres

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construction of roads. Horticulture works and Street Lighting, etc. in the Commercial Plotted Colony Measuring 2.325 Acres in Sector-32, Karnal.

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FINAL ABSTRACT OF COST

SUB WORK No.	Description of work	Amount (Lecs.)
1	Water Supply and Flushing Water supply	18:35 85:20 77:32
11	Sewrage System	27.24 23.90-25-33
111	Storm Water Drainage	38:56 27:85 40:87
IV	Roads and Parkings	125.83 454.90 456-67
v	Street Lighting	8.95 8.91
VI	Horticulture Works	2.21
VII	Mainteneace Charges for 10 Years	100:90-151:90
	Area of site = 2.325 Acres	Total 672.40 761-72
	Cost per Acre = 672-40/2.325 = 289-26	Say Rs. 289-20 tage Horse 186. 19 Lately A cae Esmax Infradevelopers Pvt. Ltd. Many una
	AUTHORIZ	ID SIGNATORY

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Executive Engineer H.S.Y.P. Division, Karnel

cle. KARNAL

Checked subject to comments in forwarding letter No. Dt.and notes attached with the estimate

Superintending Engineer (HQ)

for Chief Engineer-13 SVP, Panchkula

Save & County Planning Harvana, Chandigath

Service Plan Estimate for Providing Water Supply, Sewerages, Storm Water Drainage, Construction of Roads, Horticulture works and street lighting etc. in the Commercial Plotted Colony Measuring 2.325 Acre in Sector 32, Karnal

DESIGN CALCULATIONS

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Sr. No.	Details			
1	Total area of site = 2.325 Acre	¥	or = 9408.93 sq. mtr.	

- 2 Area under parking = sq. mtr. = 6035 Sqmt. (As per detail enclosed)
- 3 Area under shops :-

Sr. No.	Type of shops	Nos.	Size (in Mtrs.)	Area (in sq. mtr.)
1	A	6	22 × 5.486	724.15
2	В	2	22 × 8.097	356.27
3	С	2	15.25 × 6.715	204.81
4	D	24	15.25 × 5.486	2007.88
			Total	3293.1

Area for Four Stories = 3293.1 × 4 = 13172.416 Sqmtr.

4 Population :-

@ 1 person per 10 sq. mtr.

= 13172.415 × 1/10

= 1317 Nos

5 Domestic Water Requirement :-

Nos. of Persons = 1317 Nos i) water requirement- @ 45 lt / Head / day =1317 × 45 = 59.265 KL

ii) 2 Nos. PUS @ 5KL / day/Each = 10.00 KL Total = 69.265 KL Say 70 KL

- 6 Non Domestic Water Requirement :
 - i) Road & Parking area = 6035 Sq. mtr.

or = 1.49 Acres.

@5 KL / Acre = 1.49 x 5

= 7.45 KL

ii) Hort. Culture L.S.

= 2.00 KL

Total = 9.45KL

Say= 10.00 KL

Esmax Infradevelopers Pvt. Ltd.

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Total Water Requirement :-7

i) Domestic Requirement = 70.00 KLii) Non. Domestic Requirement = 10.00 KL Total = 80.00 KL

Required Nos. of T/wells :-

- Daily Water Requirement = 80.00 KL Assuming Working Hr. of T/ Wells = 10 Hrs. Assuming discharge of T/well = 15KL/Hr.
- Nos. of T/wells = 0.53 Nos. 10 X 15

Add 10% on stand by = 0.05Total = 0.58

Say 1 No.

Hence it is proposed to install 1 No. T/wells. with a discharge of 15 KL / Hr.

Pumping Machinery for T/well :-

- i) Gross working load = 35.00 m.
- ii) Av. Fall in S.L. = 3.00 m.
- iii) Depression head = 9.00 m.
- iv) Friction load = 3.00 m. Total = 50.00 m.

BHP of Submersible Motor for T/well :-10

- i). Expected yield of T/w = 15000 Lt./ hrs.
- ii). Head of motor = 50 mtr.
- ili). BHP = 15000 x 50 = 4.63BHP 60 x 60 x 75 x 0.60

Say 7:50 BHP

11 Capacity of UGT for Domestic use >

Total domestic water required Less flushing water = 70 x 33.33% = 23 KL Balance 47 KL Say 50 KL

Capacity of UGT for 24 hr.

= 50 KL.

Capacity for fire fighting 100 x V1320 x 1/31000

38.33 KL

Say 40.00 KL

Total Capacity of UGT 50 + 4090 KL

Esmax Infradevelopers Pvt. Ltd.

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12
      Boosting Machinery for UGT :-
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Dally domestic water reg. = 70 KL Assuming working hr. =8 Hr.

Disch. Of T/well Per Hr. = 70 = 8.75KL/Hr. 145.83 Lpm

Say 150 Lpm

i) Head for pump $= 4.00 \, \text{m}.$

II) Friction loss in main & spl. = 4.00 m III) Free head required = 32.00 m

Total = 40.00 m

BHP of motor = 150 x 40 x 1 =2.2 2 BHP 60 x 75 x 0.5

Say 3.00 HP

Hence it is proposed to proved 2 Nos. pumps sets (one stand by) of 3 HP with a discharge of 150 Lpm at a head of 40 mtrs.

13 Capacity of UGT for Flushing Water Supply:

Domestic water requirment * 33 .33 /-Qty. of flushing water = 120 x 39.35% = 23.35 KL Balance requirement = 46.65 Kt

Water required for Road/Parkings & Harticultur =200 KL

33-3548.65 KL Total Say 50.00 KL

14 Boosting Machinery for Flushing UGT:-

Requirement of Flushing w/s Assuming warking Hr.

35.00 = 50.00 KL = 8 Hr.

4.38 = 6.25 KL/Hr. 72.92

> or 18/±16 Lpm Say 105-Lpm 100 LPM

1) Head of pump

4.00 Mtr.

ii) Friction loss in main & spl.

4.00 Mtr.

III) Free head regulrement Total =

60 x 75 x 0.60

32.00 Mtr. 40.00 Mtr.

W BHP of modes = 105 x 40 x 1

L-EE 1.48 BH9

2. 0

Say 3.00 BHP.

2 No Pumpy sets (IW+ISB) of 2 BMP

usion a discharge of IW LPM as a head of tomor

Esmax Infradevelopers Put. Ltd. |

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15 Gen Set required :-BHP of moters :-1) T/well = 7.50 HP. II) UGT = 3.00 HP. ii) Flushing = 3:00 HP. 13.50 HP. 13.99 = 15.09 KVA Rating of Gen Set = 13:50 x 0.746 x 1.50 Add 10% Extra for lighting etc. 15-39 46.59 KVA /6-62 Say 20 KVA 16 Capacit of STP :i). Total domestic water regulament 70.00 KL 80 1/ ii). Sewrage discharge @ 75% of 56. W water requirment Add 5.1. marginal facts STORE OF OZOGINCE 5880KL 60.00 KL Esman Infrad

Esmax Infradevelopers Pvt. Ltd.

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Service plan estimate for providing Water Supply, Storm Water Drainage, construction of roads Horticulture works and Street Lighting etc. in the Commercial Piotted Colony Measuring 2,325 Acres in Sector-32, Karnel.

SUB WORK No. I

WATER SUPPLY

ABSTRACT OF COST

SUB HEAD No.	Description of work		Amount (Lacs.)
1	Head Works		35.49 47.65 38-32
11	Pumping Machinery		23.02
ж	Distribution System for Domestic Water Supply		9.70-10-58
IV	Distribution System for Flushing Water Supply	Total Say Rs. 56	7:87 -5:5: 6:50 -55:20 12:52 -2014:3

CC to Final Abstract of Cost

Esmax Infrades and a std.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. I

WATER SUPPLY HEAD WORKS

Br. No.	Description	Oty./ Unit	Rate (in Rs.)	Amount (Rs. in (acs)
1	2	3	4	5
1	Boring and installing 150mm Vd tubewells with reverse rotary rig complete with pipe and strainer to depth of about 150 mirs, complete in all resepti.	1 Nos. 125	Lactach	5.63
2	Const. of underground water tanks as per drawing and design complete in all respects of capacity as under ;- i) Domestic water supply = 79-Kt. So KL iii) Flushing water supply = 35 KL ab ST Total = 148 KL	KL KL	2099 PAC	2,07
3	125		1,9,23	1.00
	Provision for carriage for material and other unforseen	4	L.S.	0.50-
	censt. of pump chamber for UGT for obtin	king water	3.octoc	3.60
	Cornel of boundary wall for water u Add 3% contingency charges	rosks	3-52 Lac_ Total	93.50 11:47 24:47 23:13 -934 0:35 0:69
	Add 49% for departmental escalation unforegon charges		Total	11.82 05-72 23, 8 2
			G. Total	17.01 39-02-35, 49
		0.00	Say Rs. 17.6	Hacs -
				Son Rs 35,49 L

(C.C. TO ABSTRACT OF COST OF SUB WORK NO. I)

Esmax Infradevelopers Pvt. Ltd.

HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2,325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. I

WATER SUPPLY PUMPING MACHINERY

Sr. No.	Description	Oty J Unit	Rate (In Re.)	Amount
-	2	3	4	(Rs. In lacs)
1	Providing and installing electrical driven submersible motor complete in all respects :-			
	i). 2:60 HP, 250 LPM with 50 Mtr. Head	2 Nos.	#25 Leo/Each	3, W 2:60
	前、3.00 HP、150 LPM with 40 Mir. Head でのまれた IN LPM 40M 十年の	Nos.	-1.00 Lao/Each	2 W
3	Providing and installation of chlorination plant complete in all respect.	2 0 5 1 Nos.	26000 Eech (ala)	995 \
	Provision for providing and installation of Gen Sat complete in all respect.	20 KVA	-t8500 L/J	8770 4, W
	Provision for making foundations and erection for pumping machinery		L.S.	100-0.50
	Provision for pipes valves and specials inside the pump chamber and boosting chamber		L.S.	180 0.50
100	Provision for electric services/connection including electric fittings for tubewells chamber complete		65	
	including cost of transformers		LS.	200 2 W
	Provision for carriage of material and other unforseen items		L.S.	100.0.50
A	hdd 3% contingency charges		Total	14015 15. CO
A	dd 49% for depertmental escalation charges		Total	0.43 0.45 14.88 15.45 7.20 7.5
			23,0 Say Rs. 22,47 l	22 17 2-3 0

(C.C. TO ABSTRACT OF COST OF SUB WORK NO. I)

Esmax Infradevelopers Pvt. Ltd.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2,325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. I

WATER SUPPLY DISTRIBUTION SYSTEM FOR DOMESTIC WATER SUPPLY

ir.	Description	Qty./ Unit	Rate (In Rs.)	Amount (Rs. In lacs)
1	2	3	4	5
1	Providing, laying, jointing and testing DI lines including cost of excavation complete as per specifications. i). 100mm Vd DI pipes	335 Mtr	1250 4130 P/Mtr	4-19
	g. Townin by Dr pipes	WHILE	b-yield.	
2	Providing and fixing sluice valvue including cost brick masonary chamber complete in all respect		12000	
i)	i)100mm Vd	3 Nos.	12000	-0.38-
	Deviding and fides about the base of the b		Each 10,000	6.10
	Providing and fiding air valves/scour valves complete in all respects.	Nos.	12006. Each	0/12"
	Prov. and fixing fire hydrants complete in all respects.	8	12000	496
		Nos.	Each	
=	Construction of haudies for SV and Air Valves	-4- -Noe-	-2009- Each	-0.08-
	rising		Parison I	1,00
-	Provision for connection with raising mein of HSVP	LS.	-	0.50
-	Providing for carriage of material and other unforseen items	L.S.	-	0.50
			Total -	-6:31- 6:26
	Add 3% contingency charges		2	019 0-21
	Add 49% for departmental escalation charges		Total	849 7-07 318- 8-46
		16:53	G.Total	9.68

(C.C. TO ABSTRACT OF COST OF SUB WORK NO. I)

Esmax Infradevelopers Pvt. Ltd. |

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING. FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECOR-32, KARNAL.

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67

DESIGN STATEMENT FOR DOMESTIC WATER SUPPLY

	Name		200	Catego	Category! Size in Mbs.	Mbs./ No	e, of piots.					10%	278.80	Daily water	N. OH.	Total	Total
26	Jo	×	0.0	В		O	-	O		4	Area (In Sqmfrs.	(las)	Population	requirement	Dolly water	Dolly water	Dally water
No	line	22 X	22 X 5.486	22 x 8.09	8.09	15.25	.25 x 6.715	15.25 × 5.	5,486				100	@ 45 EF	rocut.	requirement	requirement
		(130	(120.69 Sqmlr	(170.1	s Sqints.)	(100	02.40 Squatry	(83.0)	88.66 Sqmts.)	SME	Branch	Total	Piferson Pife Samt.	DIPIPI DAY	for PUC@	(In KL)	SDWF
		Self	Branch	Soff	Branch	Seif	Branch	Self	Branch			The second				100	
	-	2	3	4	9	9		10	n	10	1	12	13	44	15	16	17
-	KILA	0	8	0	8	0	2	o	75	13172	0	13172	1317	8	10	8	45776
4	m	0	9	0	2	+		120	0	4425	4322	BTAT	875	8		28	26010
65	P.B.I	9	0	2	0	0		0	0	4322	0	4322	432	- 18	0	22	12852
4	A.Ret	0	0	0	0	-	0	120	0	44255	0	4426	443	88	10	8	19766

Esmax Infradevelopers Pvt. Lid.

SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES. IN SECOR-32, KARNAL

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DESIGN STATEMENT FOR DOMESTIC WATER SUPPLY

Terminal Head at Lower End	(mtrs.)	26	31.98	31.46	31.19	31.34
level	Lower	25	132.01	131.61	131.19	131.34
Hydraulic level	Upper	24	132.03	132.01	131.51	132.01
Average	at Lower End	23	100.03	100.06	100	100
Head Loss in Line	(mtrs.)	22	0.02	0.50	0.32	29.0
Length	Line (mtrs.)	21	4	105	68	141
Size	(mm)	20	100	100	100	100
Head	Per 1000 mtrs	19	4.72	4.72	4.72	4.72
Design Water	(In gallons)	18	72000	72000	72000	72000
Name of line		-	UGT-A	A-B	881	A-81
Sr.		-	-	2	3	4

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS. HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2,325 ACRES. IN SECTOR-32, KARNAL

DETAIL OF LENGTH OF WATER SUPPLY LINES

Sr. No.	Name of line	Length of line (in Mtr) 100 mm I/d	sv	FH
1	UGT-A	4.00		
2	A-B	105.00	1	2
3	B-B1	68.00	1	2
4	A-B1	141.00	1	4
5	Rising Main T- UGT	13.00	(*)	9
	Total -	331.00	3.00	8.00
	Say	335 Mtrs.		

Esmax Infradevelopers Pvi. Ltd.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA. MEASURING 2.325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. 1 SUB WORK NO. IV

340

WATER SUPPLY (FLUSHING & IRRIGATION)

Description	Qty./	Rate	Amount
2	Unit 3	(In Rs.)	(Rs. In lacs)
•	1 3	1 4	5
Providing, laying, jointing and testing DI lines			
including cost of excavation complete as per		1050	0.0
specifications.	255	1430	3.19
i). 100mm l/d DI pipes	Mtr	P/Mtr	2.00
Providing and fixing sluice valvue including cost			
brick masonary chamber complete in all respect			
I) I)100mm l/d	2	*****	
	Nos.	12000 Each	0.24
	AUS.	10000	
Providing and fixing air valves/scour valves complete	in 1	12000	6.10
Masonan chamber.	cle Nos.	Each	4,12
Construction of haudles for SV and Air Valves	-		
air valve etc	A Name	2000	0.06
provision for D.I. shew	als-Nos.	Each-	6.40
-laws line	JLS		0.40
Providing for carriage of material and other	L.S.	-	0.50
maken good the some	J d. 2.m	odia	0.70
Add 3% contingency charges	any en	L Total	3.86-4-11
Add 3% contingency charges	K1. 37 00h		041-0-25
		Total	200 1.36
Add 49% for departmental escalation charges		- oyur	1.92 2.14
		G.Total	6.83
	6,50	17017010000	000 B-50
	Say Rs. 5.85 in	187	Laten

(C.C. TO ABSTRACT OF COST OF SUB WORK NO. I)

Esmax Infradevelopers Pvt. Ltd.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING. FOR COMMERCIAL PLOTTED COLONY, OF AREA MEASURING 2325 ACRES, IN SECOR-32, KARNAL

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0

DESIGN STATEMENT FOR FLUSHING WATER SUPPLY

Sr. of			Categ	Cartegory/ Size in	Witta-/ N	Witta / Nos. of piots.							Dellamotore			
			-	-	0		0			free (In South C.)	170	Bear defen	Date Water		Total	Total
-		22 X 5,486	22.3	22 x 8.09	18.25	18,25 x 6,715	15.15 x 5.488	5.488			-	- Appendix	Contraction of the last	LABOW WRITE	Dally water	Dally weder
	42	(120,69 Sqmtrs.)	(178,13.84	3 Squitte.)	(102	(102.40 Sqmtns.)	(83.00	(83.00 Sqmfm.)	Self	Branch	Total	PiPerson	PAPADAY	for PUC®	memorrha	SOW!
-	Saf	Branch	Sed	Branch	Self	Brench	Sof	Beanch				Print Squitt.	(m wr)	#KLiday	(PKL)	(GALLONE)
-	2	2	*	9	9	1		6	10	#	12	13	44	45	46	
LIGHT	0	-		1	-		-									
AR				1	-	1		24	•	12-17:	13172	1217	2	- 40	69	45776
1			-			-		12	0	1699	66238	653	30	3	3.6	22040
2		-	•	-	-	-	12	0	44.25	5465	2859	629	30		*	40004
95			-	0			0	0	2161		2463	218	10			12004
Adi		-	•	-		-	0	12		8858	6886	888	92			00000
2 5	-	*		-	-	0	12	0	4425		4426	445	2		8	49469
2			-	0	0			e	2101	0	2161	398	91	0	10	SAMB.

Esmax Infradevelopers Pvt. Ltd.

SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES. IN SECOR-32, KARNAL

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DESIGN STATEMENT FOR FLUSHING WATER SUPPLY

Terminal	(mtrs.)	27		31.99	34 07	20,00	00'10	31.93	31.97	24.88	31 94	
Level	Lower	26		132.03	435.00	10 +0+	00,101	131.94	132.01	181 98	131.95	
Hydraulic Level	Upper End	22		132.04	132.03	132.00	200000	131.85	132.03	132.01	131.96	
Average NSL at	Lower	24		100.09	100.03	100.00	2000	100.001	100.04	100.08	100.01	
Head	In Line (mtrs.)	23		0.01	0.03	0.05	2000	1000	10.0	0.05	0.01	
Length	Line (mtrs.)	22		eo	2	11	o,	0	17	11	13	
Size	(LILL)	21		100	1001	100	997	200	100	100	100	
Head	per 1000 mtrs.	20		0.62	0.62	0.62	0.80	-	0.62	0.62	0.62	
Design	(Gallone)	18		24000	24000	24000	24000	2000	24000	24000	24000	
Flushing water 1/3rd. Of	peak disch. (Gallons)	18	-	15259	7629	8528	2142	-	1629	4388	2142	
Name of line		2	1	WG1-A	A-B	BC	93	1	T.	25	F.G	
% <u>%</u>		-		-	2	3	4	-	0	8	7	

Esmax Infradevelopers Pvt. Ltd. Henry cure

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES. IN SECTOR-32, KARNAL

DETAIL OF LENGTH OF FLUSHING WATER SUPPLY LINES

Sr. No.	Name of line	Length of line (in Mtr) 100 mm I/d	Saluice Valve	Air Valve
1	UGT-A	3,00	•	-
2	A-B	43.00	1	
3	B-C	77.00	-	5 0 00
4	C-D	19.00		1
5	A-E	17.00	1	
6	E-F	77	-	
7	F-G	19	-	-
	Total -	255.00	2	1

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. II

SEWERAGE

Sr. No.	Description	Qty./ Unit	Rate (In Rs.)	Amount (Rs. In lacs)
1	2	3	4	(POS. IN ISOS)
1	Providing, laying, jointing, & cutting salt glazed stone were pipe and sple, into trenches including the cost of excavation bed concrete cost of man holes etc. complete in all respect	260 Mir	12.50 -890- P/MI:	3.25
	1) 200mm Vd SW pipes Av. Depth upto 1,90M			
			-	-
2	Provision for the construction of STP complete in all respect.	0.08 MLD	200 lacs/MLD	12.00
4	Provision for lighting watching etc., cutting of n	sools, can	by L.S.	-0.50
8-	Provision for making connection with HSVP sewer	t 9t2 m	D HOUR lie	CZ 0.20
5	Provision for making connection with HSVP sewer Union		L.S.	-0.75-40
			Total	17,75 -15,66 16
	Add 3% contingencies & P.E. Charges			0.53_047-0
	(2019-1944)		Total	18.28+8.03
133	Add 49% Departmental charges, price escalation Unforseen and admn.			B. 96 7.86-8=
	Onlinaeen and admn.			- 0
			G. 10(8)	27,24 23.89
			Say RS. 23-6	10 iaca 27, 24 L
	CC TO FINAL ADDED			

(C.C. TO FINAL ABSTRACT OF COST)

Esmax Infradevelopers Pvt. Ltd.

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SERVICE PLAN ESTIMATE POR PROVIDING PUBLIC LIGAL IN SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2325 ACRES, IN SECOR-32, KARNAL

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DESIGN STATEMENT FOR SEWERAGE SCHEME

24 ELJ mept. Perher DAY for PUCe. 16 16 18 16 21 0 0 21 0 0 10 0 0	woller Total States	2	Daily water	Possibilion	- Conju	Area for South.)	4		toes -	, of plots,	8	3	Size in Mars.	Legory Size in Mas.	Category Size in Mars./ Nos. of picts
1. On No.) for PUCE onescent water discharge line onescent water discharge line for No.) onescent water discharge line day) (Cusee.) day) (Cusee.) 30 21 18 19 30 21 18 19 30 21 18 19 30 21 18 19 30 21 18 19 17 18 19 10 10 11 18 17 18 17 18 17 18 17 18 17 18 18 17 18 17 18 18 17 18 18 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Notify mendowant F			99						0	0	0 0	0 0	B C D	
On Ma. ONL May Quark,	for PUCE	-	-	1 Person				ASS M	ıa	15.25 X \$.488 M		15.25 K 6.715 W 15.25 X S.	35.25 K 6.715 W		35.25 K 6.715 W
16 18 17 18 19 21 21 10 10 10 21 10 10	SKLidery Storics de-		-	PV10 Squit.	Total	Branch	Soft	Strates.)	1.00	N 90'09	90700	(DD2.403 Sqmtm.) +63.06 Sq.	75.) (DD2.403 Sqmtrs.) 163.06	90700	75.) (DD2.403 Sqmtrs.) 163.06
16 16 17 18 19 20 21	Man		_					Branch	ñ	Self Br		Soft Branch Self	Soft Branch Self	Branch Self	Branch Soft Branch Self
10 0 110 6436 0,011 0.444 1/220 21 0 21 13637 0,027 0,444 1/220 30 0 10 6465 0,011 0,44 1/220 30 0 5 35 27888 0,011 0,44 1/220 30 0 39 27888 0,01 0,44 1/220 30 0 0 99 27878 0,01 0,44 1/220	18 17 18		16	#	2	Č.	11	10			8 8	8	8	8	8
10 0 10 6/36 50/1 0.44 1/220 1/26 1/26 1/26 1/26 1/26 1/26 1/270 1/26 1/270							1		-1	-		-	-	-	-
21 0 21 19657 0,007 0,444 1/220 200 0,444 1/220 0,444	01 0	10	10	216	2161	9	2167	5		-	-	0	0	0	0
30	6 2	9 12	21	400	4500	2161	3005	0		12					
10 10 6465 10.01 0.44 17220 10.02 10.02 17220 1722	92 9		30	656	2022	9890		22		0	1 0 1	0 4 0	0 4 0 0	0 0 0	0 4 0 0
30 5 35 2388 0.00 0.44 1/220 30 0 30 28584 0.00 0.44 1/220 30 (0 60 45776 0.36 0.44 1/220	0 10		0,	216	2161	0	2461	a		0		0	0	0	0
30 0 39 2502K DJM 0.44 1/220 50 10 69 4577 0.36 0.44 1/220	5 35		8	609	9899	2361	9594	0	-	12					
545 (10 69 d5775 0.56 0.14 1/236	96		30	699	9899	6036	0	2		0			0 1	0 1	0 0 1
֡	66 01		200	1317	27.57	33472	0	2		0	2 0	2 0	0 0 3 0	0	0

Esmax Infradevelopers Pot. Ltd.

SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECOR-32, KARNAL

0

DESIGN STATEMENT FOR SEWERAGE SCHEME

Sr.	Name	Length	Fall	Average NSL	NSL	Bed Levels	els		Depth (Mtrs.)	
	line i	Lines (Mtrs.)	Line (Mtrs.)	Upper	Lower	Upper	Lower	Upper End 99.16	Lower	Average
	2	23	24	22	26	22	28	29	30	31
۲	6.B	17	010	10001	100.02	99.26	98.16	0.75	1.85	1.31
۲	B.C.	79	0.36	100.02	100.04	99.16	98,80	0.86	1.24	1.05
Ť	6.0	13	0.10	100.04	100.04	58.80	98,70	1.24	1.34	1.29
Ť	E.F.	17	0.10	100.001	100.00	99.26	99.16	0.75	0.84	0.80
Ť	2	97	0.36	100.00	100.03	99,16	98.80	0.84	1.23	1.04
1	0.0	49	022	100.03	100.04	58.80	98.58	123	1.46	1.35
1	D.S.TD	9	000	100.04	100,001	82.88	98.56	1,46	1.48	1.47

Esmax Infradevelopers Pvt. Ltd.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES. IN SECTOR-32, KARNAL

DETAIL OF LENGTH OF SEWER LINES

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Sr.	Name of line	Length of line (in Mtr)
No.		200 mm i/d
1	A-B	17.00
2	B-C	79.00
3	C-D	13.00
4	E-F	17.00
5	F-G	79.00
6	G-D	49
7	D-STP	4
	Total	258.00
	Say	260 Mtrs.

Esmax Infradevelopers Pvt. Ltd.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECTOR-32 KARNAL

SUE WORK NO. III

STORM WATER DRAINAGE

Sr. No.	Description	Qty./ Unit	Rate (In RS.)	Amount (Rs. in lacs)	
1	2	3	4	6	
1	Providing, laying, jointing & cutting RCC pipe NP-3 with cement joint const. of manhole road guilles and excavation etc. complete in all respect				
	I) 400mm l/d	405 Mir	2500 P/M/r	10,13	_
2	Provision for construction of Recharge Pit/Rain Water Harvesting well complete in all respect	2000	د.5. ي د و علما	5.00 —	
3	Provision for cutting of road and carriage of material and unforseen litams		L.S.	1.00	
4	Provision for making connection with HSVP storm water line		L.S.	1.00	
5	Provision for lighting watching etc.		L.S.	1,00	
6	Provision for road gullies including C	est of	LS	2.00	
	Provision for Temporary Disposal		US	5,00	
-	trensien for tentand		Total	-18.13	2 25/13
	Add 3% contingencies & P.E. Charges			954 CIST	2. 0. 75
			Total	48.67 274	25.8
	Add 49% Departmental charges, price escalation			-9:15-13-4	-
	Unforseen and admn.		Total	27-82 Jan S	38.2
			Say RS. 27	-87 -85-lacs 3 5 5	6 Laleh

(C.C. TO FINAL ABSTRACT OF COST)

Esmax Infradevelopers Pvt. Ltd.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS AND PARKINGS, HORTICULTURE AND STREET LIGHTING. FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2,325 ACRES, IN SECOR-32, KARNAL,

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0

DESIGN STATEMENT FOR STORM WATER SCHEME

-	Arres (Acre)		Discharge		Sine of		Design	Length	Fallin	Formatio	on Level	Bed Level	pava.	ă	Depth (mtrs.)	2
E	Stratch	Total	with 1/6" rain intendity (Casec.)	Design Dischange (Cases.)	(may)	Gredlent	Velocity ft./Sec.	of Line (mtrs.)	Line (mtrs)	Upper	Lower	Upper	Lower	Upper End	Lower	Average
12		20	9	. 7		6	10	11	12	13	34	10	10	-11	18	13
10	00'0	0.68	0.22	3.52	400	1,650	2.52	162	0.27	101.40	101.10	89'05	90.31	1,82	1,79	1.81
10	000	290	0.16	3.52	400	1,650	2,52	106	0.19	101.26	101.10	90.55	58,36	1.80	1.74	1.77
	05.	1,675	9.42	3.52	1000	1,680	2.52	30	900	101.10	101.03	98.31	88.25	1.79	1,000	1,79
-	00'0	0.62	0.16	3.52	400	9/200	200	100	0.10	101.30	101.08	99.09	66.38	1.75	1.70	1.73
	2,30	2.028	9.68	3.62	100	1,0900	2,02	g	10.01	101/00	101.08	99,28	90.25	1.80	1,81	1.81

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES. IN SECTOR-32, KARNAL

DETAIL OF LENGTH OF STORM WATER LINES

Sr. No.	Name of line	Length of line (in Mtr) 400 mm i/d
1	A-B	152.00
2	B1-B	108.00
3	B-C	30.00
4	C1-C	108.00
5	C-RWH	5.00
	Total	403.00
	Say	405 Mtrs.

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTIGULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2:325 ACRES. IN SECTOR-32 KARNAL.

SUB WORK NO. IV

0

ROADS & PARKINGS

Sr. No.	Description	Qty./ Unit	Rate	Amount (Rs. In lacs)
1	2	3	4	. 5
1	Providing and laying of earth for levelling and filling av. Depth 0,90M as per site condition	2.325 Acre	17 \$ 00 .80000 P/Acre 1260	9-1184.07
2	Construction of Roads and Parkings including prov. & fixing of cament conc. Kerbs and channels as per site requirement completein in all respect and specifications as under:-	6035 600 Mtr	A870 P/Mtr	293.90
	1) 100 mm thick interlooking tilbs/ 50 mm	M DBN	over	
	ii) Over 280mm thick WMM	mm Wr	my was	
	III) Over 150mm thick GSB	um Gse	over	
3	Provision for Indication Boards, Guide Map & marking of parking with thermoplastic paint.		L.S.	1: W
4	Provision for demarcation burji carriage of material		L.S.	1.50
(5)	and unforegon terms I cerb & charm	nes -	L. S	3,00
)ē-	Prov. For treffic light contact etc.		LS.	0.50
		540	Total	81,99
	Add 3% contingencies & P.E. Charges			2-46
			Total	905:30 84.40
	Add 49% Departmental charges, price escalation Unforseen and admn.			449.00
	27		Total	125.83
	74		Say RS. 4	54.90 less 125, 83 L

(C.C. TO FINAL ABSTRACT OF COST)

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECTOR-32, KARNAL

DETAIL OF AREA OF ROADS & PARKINGS

01:

0

0

1 Total Area of site = 9408.93 Sqmtr.

2 Total Ground Floor Area of SCOs & 5 = 3293.10 Sqmtr.

3 Area of PUS = 36.00 Sqmtr.

4 Area of STP site = 18.00 Sqmtr.

5 Area of UGT = 18.00 Sqmtr.

6 Area of T. F. = 12.00 Sqmtr.

Total 2 to 6 3377.10 Sqmtr.

Net Area under Roads & Parkings = 9408.93 - 3377.10

= 6031.83 Sqmtrs.

Say 6035.00 Sqmtrs

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. V

00

STREET LIGHTING

Sr. No.	Description of Item	Qty	Rate (in Rs.)	Amount (Rs. In lacs)
1	Providing Street Lighting on Roads and Parkings as per the standard specifications of the UHBVN Deptt.	2.325 Acres	250000 P/Acre	5.81
			Total	5.81
	Add 3% confingencies & P.E. Charges			0.17
			Total	5.98
	Add 49% Departmental charges, price escalation Unforseen and admn.		Total	2.93
	Unformer and advan		Total Say RS. 8	7-917

(C.C. TO FINAL ABSTRACT OF COST)

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2.325 ACRES, IN SECTOR-32 KARNAL

SUB WORK NO. VI

HORTICULTURE

Sr. No.	Description of Item		Qty		Rate (In Rs.)	Amount (Rs. in lacs)		
0	Day of Lawn area @ From	WHA	1000	du'n	07501	Luposa	depth	of 600m
1	Providing and planting trees along side the bound @ 12M c/c interval	dary wall	23. A		-, 2,	l.	40	
	Total length of boundary = 77.11 + 124 M 2402.22 Say 402 M							
	No. of trees = 402/12 = 33,50 Trees Say 34 No	s. Trees						
	DETAIL OF COST FOR PLANTATION :-							
	Excevation =		Rs.	60				
	Manure =		Rs.	90				
	Tree planting =		Rs.					
	Tree guard =	988	Rs.	1000	-			
	1	OTAL	Rs	1300	Each			
					201000		-	
		*	34		1300.00	0.44		
			Nos.		Each			
					Total	-0.44	1.44	
	Add 3% contingencies & P.E. charges					-0.01	0.04	
	The state of the s							
					Total	0.45	1.48	
	Add 49% Departmental charges, price escalation Unforseen and admn.					-0.22	0.73	_
					Total	-0.67	2.2	
					2.2			
				Say	Rs.0:70 la	CS		

(C.O. TO FINAL ABSTRACT OF COST)

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SERVICE PLAN ESTIMATE FOR PROVIDING PUBLIC HEALTH SERVICES, ROADS & PARKINGS, HORTICULTURE AND STREET LIGHTING FOR COMMERCIAL PLOTTED COLONY OF AREA MEASURING 2,325 ACRES, IN SECTOR-32 KARNAL

MTC.COST FOR ROAD AND SERVICES

SUB WORK NO. VII

01

0

Sr. No.	Description	Qty	Rate (In Rs.)	Amount (Rs. in lacs)	
1	Providing for mtc. Charges for water supply, sewerage, drainage, Street Light, Horticulture etc. complete including operation and establishment charges as per HSVP norms after completion for 10 years	2,325 Acre	7.50 Lacs Per Acre	17,44	
2			600/	36.7	21
-	Form the classes after 1st five year with	5035 Sgm.	-200 D/Sem	-18.1T	
	-Much premix carper	Squi.	7501	450	26
3	Some Weds after 10 years with	6035 Sqm.	P/Sqm.	30.10	
	there premies carper)		Total -	65.72	98.91
	Add 3% contingencies & P.E. charges			.4.97	2.97
			Total	67.69	101,88
	Add 49% Departmental charges			33.17	49,92
			Total -	100:86	151,80
			Say Rs. 100:00 k		

(C.O. TO FINAL ABSTRACT OF COST)

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