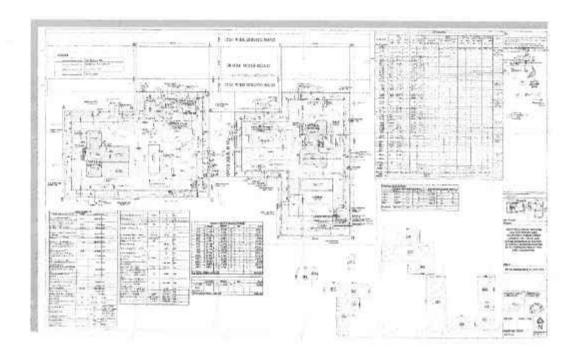
# SERVICE PLAN ESTIMATE



Service plan Estimate of Group housing colony for an area measuring 7.35625 acres
(Licence no. 136 of 2023 dated 30/06/2023) in sector – 32 SOHNA
Distt-GURUGRAM HARYANA

being developed
by ST. PATRICKS REALTY PVT.LTD

Authorized Signatory.

S. T Patricks Realty Pvt. Ltd.

#### REPORT

SERVICE PLAN Estimate Service Group housing colony for an area measuring 7.35625 acres (Licence no. 136 of 2023 dated 30/06/2023) in sector – 32\_SOHNA, Distt-GURUGRAM HARYANA situated on near Jaipur Highway at a distance of 50 Kms from Delhi Being the National Capital Region, the town has fast developed tendency and potential Further, it has also started sharing the growing residentials load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Govt. to establish various residential and other infrastructure sectors in village Dhunels & Berka Distt. Gurgram.

#### 1. WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Temp. Borewells/ HUDA Water Supply has been proposed to construct the underground tanks of capacity as per attached details, and at location for domestic purpose and for fire protection. The underground tanks will be fed from the tankers and HSVP supply.

#### 2. DESIGN

The scheme has been designed for total population of 1103 Persons in residential Flats. The rate of Water supply per head per day has been taken as 45 liters as per HUDA and N.B.C. norms In addition to above necessary provision of water for miscellaneous purpose have been taken into accounts for calculating the maximum quantity of water requirement.

## 3. PUMP CHAMBERS AND PUMPING MACHINERY

It is proposed to equip each tube well with an electrically driven set eject type or submersible pump capable of delivering 18000 liters per hour. It is also proposed to equip the required No's pumping sets with stand by diesel engines/gen set for operation during of electricity.

### 4. UNDER GROUND STORAGE

Provision has been made for water which caters for the domestic as well as for firefighting requirement.

## BOOSTING STATION

The Boosting station is being planned near underground storage tank and near S.T.P. Catering to the above requirement

# 6. DISTRIBUTION SYSTEM

The Distribution system for this development has been designed as per HSVP norms @ 3 times the average rate of flow on Hazen William formula. Necessary provision for laying 100MM (K7)/DI pipes conforming tore event IS standards along with valves and specials has been made in the project. The minimum terminal head at any point will be more than 43.00 meters

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so that it can serve all the floors construction envisaged in the plan. Minimum pipe dia for distribution is kept as 100 MM dia.

#### 7. RISING MAINS

Rising Mains for HSVP (100MM DIA DI-K7) water main or sector Road to water works have also been proposed and provision has been made in this estimate,

#### 8. SEWERAGE

The sewer lines have been designed for 3 times the average DWF in relation to the water supply demand assuming that 75% of the domestic water supply shall find its way into the proposed sewer. SW pipe sewers have been proposed and designed to run half full. The Sewers have been designed on 0.77 M per second minimum velocity i.e., self-cleansing velocity. Necessary proviso for laying SW pipes manholes etc. has been made in this estimate.

#### 9. STROM WATER DRAINAGE

The Storm water drainage is being designed as per HSVP norms to carry 6.25 mm rainfall per Hour for intramural and 3.125 mm rainfall intensity for extramural sewers. Also suitable provision are contemplated in our scheme to ensure better recharging of the underground water table in the area R.C.C PIPE NP-3 drain with minimum 250 mm dia. is proposed in the area. The Storm water collected will be discharged into the main HUDA sewer lying near the commercial colony by pumping of storm water or by gravity.

# 10. ROADS

The Road in the colony has been planned as per requirement of HUDA, the following specifications have been adopted which are reproduced below.

The Specification of Roads

- GSB-200 mm in one layer
- (ii) WHM -250 mm in two layers
- (iii) 50 mm thick DBM
- (iv) 30 MM THICK B.C

The above constructions shall be done on well compacted sub grade as per specifications complete work will be carried out as per MORTH specifications, IRC guidelines or HSVP specifications, whichever applicable.

#### 11. STREET LIGHTING

The provision has been made on a lump sum basis.

# 12. HORTICULTURE

The Usual provision of Roadside plantation and tree guards has been made for all roads. The parks shall be developed by providing lawns etc.

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# 13. SPECIFICATIONS

The work will be carried out in accordance with the standard specifications of P.H. Departments as laid down by HUDA & Haryana Government.

#### 14. RATES

An estimate for providing services in this pocket has been prepared on the recent market rates.

#### 15. COST

The total cost of the development in this Project Phase one including various PH & B & R services works out to <u>Rs. 825.38 lacs</u> which include 3 % contingency and P.E charges and 49% departmental charges price escalation, unforeseen, administrative charges.

The cost per gross acre for this phase works out to <u>Rs. 112.20 lac</u> which covers the provision of services like water supply, sewerage, storm water drainage, roads, street lighting and plantations including plantations maintenance thereof as well as future expansion whatsoever indicated.

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# TOTAL PLOT AREA DETAIL

i)	Main Dwelling Units (Tower A+B)	=	193 No's
	@ 5 Persons per dwelling units	= 1	193 x 5
	e a recomb per arreining units	-	965 Persons
ii)	EWS Units (Tower-C)	=	35 No's
	@ 2 Persons per dwelling units	=	34 x 2
	Southern Danie Until Spanie und eine <del>We</del> chel der anderen der State ander State andere Anderen State Anderen Anderen State Anderen State Anderen State Anderen State Anderen Anderen State Anderen Anderen State Anderen And	=	68 Persons
iii)	Service Personal	=	35 No's
	@ 2 Persons per dwelling units	=	35 x 2
	2. 170 2. 170 - 1. 170	=	70 Persons
	Total Persons	=	1103 Persons
	Domestic Water requirement		
	1103 x 172.50 Lt per capita per day	=	1,90,267.5 Ltrd
īv)	Swimming Pool (2Nos) L.S	=	30000 Ltrs
	Total	=	190.27 + 30.00
		=	220,27 KLD
	SAY	=	220 KL
1.	DESIGN CALCULAION		
	<ul> <li>a) Land Scape / Irrigation Purpose</li> </ul>		
	@ 15.36% L.S Total Area @ 25 KLD		
	4270,024 Sq.mt OR 1.05 Acres	=	26.25 KL
	Total = 220 + 26.25	#	246.25 KL
	Say	=	250 KLD
	Total Demand = 190 KLD		
	65% for Domestic Use = 123.50	KLD Sa	y 125 KLD
	35 % for Flushing Use = 66.50	KLD Say	70 KLD

# 2. BORE WELLS

Approx. discharge of borewells @ 15KL/hour and working 16 hours/day

a)	Total water demand		=	250 KLD
b)	Number of borewells 250/15	x 16	=	1.04
	Add 10% as standby	1920(1)	=	0.10
		Total	=	1.14
		Say		1.00 Nos
	Fire = 100√P			

Fire =  $100 \sqrt{P}$ =  $100 \sqrt{1.103}$ = 105.02 KL OR SAY = 110 KL

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For S.T Patricks Realty Pet, Ltd.

# 3. PUMPING MACHINERY FOR TUBE WELL HEAD OF PUMP: -

1) Gross working head

= 70.00 Mts

2) Average Fall in S.L

= 6.00 Mts

Depression head

= 6.00 Mts

4) Friction Loss in Main

= 5.00 Mts

Total

= 87.00 Mts Say 90Mts

BHP

15000 x 90

60 x 60 x 75x 0.60 = 8.33 HP (with 60% efficiency) = 10.00 BHP

# 4. UNDER GROUND WATER TANK FOR DRINKING WATER

Daily requirement for domestic use = 125 KL Capacity of Under Ground Tank taking Storage 100% Say = 125 KL

Fire Fighting 100√Population = 100√1103= 105.02 KL Say =110 KL UGT of Capacity =125 + 110 = 235 KL OR SAY 250 KL

Hence it is proposed to provide a UGT of Capacity is 250 KL which also includes 110 KL Capacity for firefighting as well. This tank will have two compartments, one for fire and the other for Domestic Use. The water first enters the fire compartment then overflows to the domestic use component, so that the water in the Fire compartment shell remains fresh.

4	PUMPS FOR DOMESTIC WATER SUPPLY FOR	R UGT	
1	Potable water Requirement per day	125	KL
2	Pumping Duration Per day	10	Hrs
3	Suction Lift	5	Mts
4	Clear head Required (Height of the building)	60	Mts
5	Residual Head	5	Mts
6	Friction head loss	4	Mts
7	Total head required	72	Mts
8	Discharge of pump 125/10 = 12, 50KLH OR 208 LPM SAY 220	239.56 LPM Say 220 LPM	LPM
9	Power required (LPM x head (m)/4500x.60 220 x 225 / 60 x 75 x 0.60	18.33	HP
		Say 20.00	HP

It is proposed to provide 1set of 2No's pumps (1working & 1 stand by) of 220 LPM discharge at 225M head (ONE pump is working and other as standby for domestic supply).

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S. T Patricks Realty Pvt. Lt.

# UNDER GROUND WATER TANK FOR (FLUSHING WATER SUPPLY)

Daily requirement for Flushing Water

70.00 KL

For Horticulture

26.25 KL

Total

96.25 KL SAY 100 KL

Capacity of Under Ground Tank taking 8hra Storage = 100 % Le. 100 KL

6	Pumps for Flushing water supply for UGT		
1	Flushing water Requirement per day	100	KL
2	Pumping Duration per day	10	Hrs
3	Suction Lift	0	Mtrs
4	Clear head Required (Heights of the building)	11.25	Mts
5	Residual head	05	Mts
6	Friction Head Loss	5	Mts
7	Total Head Required	75 LPM	Mts
8	Discharge of pump =100 /1x 10 = 10 KLH/H=166.66	166.66 SAY 200 LPM	LPM
9	Power Required (LPM x Head(M)/4500x.60(effi) 200 X / 225 X 75 X 0.60	16.66	HP
Say		17.50	HP

# 7. Diesel Gen Set

T.W 1No x 10

= 10.00 HP

Pump set (Dom) 1 x 20

= 20.00 HP

Pump Set (Flushing) 1 x 17.50 = 17.50 HP

Lighting etc

= 10.00 HP

Total

=47.50 HP

Or 47.50 x 0.746 x 1.50 = 53.15 KVA Say 55 KVA

#### 8. CAPACITY OF STP

0.80 x 190

= 152 KL

Total

= 0.16 MLD

Add 5% for mechanical Factor = 7.60

= 159.60 KLD

SAY = 160 KLD

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S. T Patricks Realty Pvt. Ltd.

	FINAL ABSTRACT OF COST		
SUB WORKS	PERTICUERS	Amount in Lac	
SUB WORKS NO-1	WATER SUPPLY	276.51	Lacs
SUB WORKS NO-2	STORM WATER DRAINAGE	112.34	Lacs
SUB WORKS NO-3	SEWERAGE	71.89	Lacs
SUB WORKS NO-4	ROAD AND FOOTPATH	146.22	Lacs
SUB WORKS NO-5	STREET LIGHTING	28.224	Lacs
SUB WORKS NO-6	HORTICULTURE	5.08	Lacs
SUB WORKS NO-7	MAINTENANCE OF SERVICES FOR 10 YEAR INCLUDING RESURFACING OF ROAD AFTER 1st 5 YEAR AND 2nd 10 YEAR	185.12	Lacs
	TOTAL COST	825.38	Lacs
	AREA OF THE SITE	7.35625	ACRES
	COST FOR ONE ACRES	112.20	Lacs/Acres

Executive Engineer HSVP Division No. VI Gurugram

Checked subject to Comments
In forwarding letter No. Lo. 3 915
Dt. 241 2424 ... and notes
Attached with the estimate

for Chief Engineer-I HSVP Panchkula Director

South & Country Planning

Haryana, Chandigarh

HAVP, CITCH-II, GUTUTTI

Authorized Signatory

S.T Patricks Realty Pet. Ltd.



हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI

VIKAS PRADHIKARAN

: 2570982 Toll Free No. : 1800-180-3030

Website

: www.hsvp.ln

Email

: cencrhuda@ gmail.com

Address: C-3, HSVP, HO Sector-6 Panchkula

> CE-I NO. 102915 Dated: 24 | 04 | 2029

Annexure-A Approval of service plan estimate of Group Housing Colony over an SUB:area measuring 7.35625 acres falling under licence no. 136 of 2023 dated 30.06.2023, in the revenue estate of Village Dhunela, Sector-32, Sohna, District Gurugram being developed by M/s St. Patricks Realty

Technical note and comments:-

All detailed working drawings would have to be prepared by the colonizer 1 for Integrating the internal services proposals with the master proposals of town.

The correctness of the levels will be the sole, responsibility of the colonizer for 2. the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution. 3.

The material to be used shall the same specifications as are being adopted by HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.

4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HSVP. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HSVP from time to time.

- 5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ HSVP. All link connections with the State Government/ HSVP system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision according to EDC deposited.
- Structural design & drawings of all the structures, such as pump chamber, 6. boosting chamber, RCC OHSR, underground tanks, quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber for Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications, colonizer himself will be responsible for structural stability of all structures.

Potability of water will be checked and confirmed and the tube-wells will be 7. put into operation after getting chemical analysis of water tested. 8.

Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.

Tel.

: 2570982

Website

Toll Free No. : 1800-180-3030 : www.hsvp.in

Email

: cencrhuda@ gmail.com



# हरियाणा शहरी विकास प्राधिकरण HARYANA SHEHARI

VIKAS PRADHIKARAN

# Address: C-3, HSVP, HO Sector-6

Panchkula

- Q A minimum 100 I/d C.I/D.I, 200mm I/d SW and 400mm Id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.
- 10. Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health Engineering Deptt. or HSVP. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
- 11. The X-section, width of roads, will be followed as approved by the Chief Town Planner, Haryana, Chandigarh. The kerbs and channels will also be provided as per approved X-section and specifications. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
- 12. The specifications for various roads will be followed as per IRC/MORTH specifications.
- The wiring system of street lighting and specifications of street lighting fixture 13. will be as per relevant standards.
- This shall confirm to such other conditions as are incorporated in the approved 14. estimate and the letter of approval.

Executive Engineer (M), Chief Engineer-I, HSVP,

Panchkula.

		ABSTRACT OF COST		
	Su	WATER SUPPL		
S.no		Particulars		(Amount in Lacks)
1	SUB HEAD NO-01	HEAD WORKS	====	23.32
2	SUB HEAD NO-02	PUMPING MACHINE	=	99.00
2	SUB HEAD NO-02	RISING MAIN	=	5.44
3	SUB HEAD NO-03	DISTRIBUTION SYSYTEM	=	13.53
4	SUB HEAD NO-04	FLUSHING/IRRIGATION	=	14.05
5	SUB HEAD NO-05	FIRE FIGHTING	=	24.84
		TOTAL	=	180.17
ADD 3	% CONTINGENCIES &	P.E CHARGES	=	5.41
		TOTAL	=	185.57
	9% DEPTT.CHARGES, IISTRATION CHARGES	PRICE ESCALATION UNFORESEEN &	=	90.93
		TOTAL	=	276.51

S.T Patricks Realty Pre. Ltd.

Sub w	ork No. 1 Wat	er Supply	1
SUB H	EAD No. 1 HEAD	WORKS	1
S.no	Description Qty./ Rate / Unit	Amount in Lacs	
1	Boring and installing 510 mm tubewell with reverse rotatry rig complete with pipe and stainer to a depth of about 120 metre in all respect 1 no. @ Rs. 15,00,000/- each	15.00	Lacs
2	Provision for rising mains, connecting tubewell with water main and bypass arrangements with DI/CI Pipe "B" Class of reputed make.	2	
	(a) 100 mm dia - 56M @ Rs. 1460/-	0.82	Lacs
3	Provision for carriage of material and other unforeseen items (L.S)	1.00	Lacs
4	Provision for construction of tube well chamber 1.50 x 1.50 x 2 No's @ Rs 1.00 Lacs each for Housing T. W	2.00	Lacs
5	Provision for construction of Boosting Chamber (L.S)	4.50	Lacs
	Total	23.32	Lacs

	PIPELINE	100 MM DIA
1	TW1 to UGT	56.00
	TOTAL	56.00

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Sub v	vork No. 1	ater Su	ply
SUB I	HEAD No. 1 Pum	ping Ma	chine
S.no	Description Qty./ Rate / Unit		nt in
3	Providing for diesel engine generator set each for standby arrangements for TW & booster pumps complete in all respects with following capacities.		
a)	55 KVA 1 No. (L.S)	8.25	Lac
5	Providing and installing Hydro pneumatic pumping sets for domestic and flushing supply capable of delivering following capacities of water complete with motor and other accessories.		
a)	Domestic Supply 220 LPM @ 225Mts. Head, 20.00 HP (2No's) @ Rs 4.00 Lacs each	8.00	Lac
b)	Flushing supply 200 LPM @ 225 Mts, Head 17.50HP (1+1=2No's) @ Rs 3.50 Lacs each	7.00	Lac
5	Construction of U.G Tanks of capacity of 250KL incl. 110KL for Fire & 100 KL cap for the near STP = 250 +100 = 350KL @ 5500/KL	19.25	Lac
6	Provision for making foundation and erection of pumping machinery (LS)	2.00	Lac
7	Provision for pipes, valves and specials inside the pump chamber and boosting chamber (LS)	2.00	Lac
8	Provision for electric services connection including electrical fitting for tube well and boosting chamber etc including cost of transformer (LS)	2.50	Lacs
9	Providing and fixing pumping sets of following capacity for fire protection		
(i)	180 LPM at 225M head 1 Nos Jockey pump 15. HP		
(ii)	2280 LPM at 225M head 1 Nos 190HP		
(iii)	2280 LPM at 225M head 1 Nos Diesel 190HP	50.00	Lacs
	Total	99.00	Lacs

S. T Patricks Realty Per. Ltd.

	SUB WORK No. 1	ater Supp	ly
	SUB HEAD No. 2 HUDA RIS	ING MAI	V
5.no	Description Qty./ Rate / Unit	Amount in La	
1	Providing, Laying, Jointing & testing pipelines including cost of excavation etc complete in all respect		
	C.I/D.I Pipe 150 mm dia = 88Mtr @ 2040 Per SqMt	1.795	Lacs
2	Providing & fixing sluice valve including cost of surface box and masonry chamber etc complete in all respect	0	
	150 mm i/d 1 No. @ 12000	0.120	Lacs
3	Providing & fixing indicating plates for sluice valve and air valves 2 no @ Rs. 1000/- each	0.020	Lacs
5	Provision of carriage for materials and other unforeseen itmes L.S.	0.50	Lacs
6	Provision for Making water supply connection with HUDA Line on master road (L/S)	2.00	Lacs
7	Provision for cutting of roads and making good to its original condition	1.00	Lacs
	TOTAL	5.44	Lacs
	(C/o to Abstract of cost for sub work No. 1)		

	erial Statement		
	Line		HUDA - UG Tank
1	FROM MAIN TO UGT		88
		Total Length	88

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SUB V	WORK No. 1	Wate	r Supply
SUB I	HEAD No. 3	ISTRIBUTION	SYSTEM
		- I	omestic
S.no	Description Qty./ Rate / Unit	Amount	in Lacs
1	Providing, Laying, Jointing and testing C.I./D.I pipe lines including Fittings, Valves, Cost of Excavation etc. complete in all respect		
	(Domestic)	-	
	150 mm Dia = 487 M @ Rs 2040 /- per Mtr.	9.93	Lacs
2	Provision for carriage of materials and other unforeseen item (L.S)	2.00	Lacs
3	Providing & fixing valves incl. cost of surface box & masonry chamber etc complete in all respect	3:	
	150 mm dia 4Nos @ Rs 15000/- each	0.60	Lacs
4	Provision for including Plate Air Valve, Scour Valve etc (L.S)	1.00	Lacs
	TOTAL	13.53	Lacs
	(C/o to Abstract of cost for sub work No. 1)		

S.no	Line	Length in Mts
3.170	Line	100 dia
1	UGT-W1	15
2	W1-W2	118
4	W2-W3	57
5	W3-W4	92
6	W4-W5	28
7	W5-W6	37
8	W6-W7	97
9	W7-W8	43
	TOTAL	487

S.T. Patricks Realty Pvt. Ltd.

	SUB WORK No. 1 Wat	er Supply	У	
SI	JB HEAD No. 04 FLUSHING / IF	/ IRRIGATION		
S.no	Description Qty./ Rate / Unit	Amount Lacs		
1	Providing, Laying, Jointing & testing pipes lines confirming to IS 4985 (Upvc/DI) including cost of excavation etc complete in all respect	-		
(a)	150 mm Dia = 463 meter @ Rs. 2040/- per Mtr	9.45	Lacs	
2	Providing & fixing 25 mm dia irrigation hydrant valve complete in all respect			
(a)	25mm dia = 30 No's @ 5000 each	1.50	Lacs	
3	Providing for carriage of material and other unforeseen items (Lump Sum)	1.00	Lacs	
4	Providing for cutting roa & making good to its original condition.	1.00	Lac	
5	Providing and fixing Sluice valve include. Cost of Surface boxes and masonry Chambers etc. complete in all respect.			
	1500 MM dia 4 Nos @ 15000/- each	0.60	Lacs	
6	Providing and fixing indicating plates (L.S)	0.50	Lacs	
	TOTAL	14.05	Lacs	

S.no	Line	Length	
		100 MM D	
1	SIP to II	5	M
2	II-I2	26	M
3	12-13	83	M
4	13-14	39	M
5	I1-I5	55	M
6	15-16	18	M
7	IS-17	74	М
8	17-18	76	М
9	18-19	39	M
10	19-110	48	М
	Total length	463	М

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St	Water S	upply		
SUB HEAD No. 05 FIRE FIGHTING			RING)	
S.no	Description Qty./ Rate / Unit	Amount in Lac		
1	Providing, Laying, Jointing & testing M.S pipes lines including cost of excavation etc complete in all respect			
(a)	M.S pipe 150 mm Dia = 965 metre @ Rs. 2040/- per Mtr	19.69	Lacs	
(b)	80 mm Dia CI/DI PIPE (L.S)	0.50	Lacs	
2	Providing & fixing sluice valve			
(a)	150mm dia 3no @ Rs 15000/-each	0.45	Lacs	
3	Providing and fixing fire Hydrant with accessories 20Nps @ Rs 15000/- each	3.00	Lacs	
4	Providing for carriage of materials & other unseen items etx L.S	1.00	Lacs	
5	Providing for indicating plates (L.S)	0.20	Lacs	
	TOTAL	24.84	Lacs	

S.no	Line	Length	
		100 MM	DIA
1	FIRE TANK to FI	15	M
2	F1-F2	117	N
3	F2-F3	62	M
4	F3-F4	61	M
5	F1-F5	75	M
6	F5-F6	97	M
7	F6-F4	58	M
8	F4-F7	26	M
9	F7-FH	77	M
10	F7-F8	83	M
11	F8-F9	85	M
12	F9-10	77	M
13	F10-F11	132	M
	Total length	965	M

S.T Patricks Realty Pet. Atd.

S.no	Na	me of sto	rm Line	400 MM Dia Drain
1	A	to	В	31
2	В	to	С	56
3	C	to	D	29
4	D	to	E	54
5	E	to	F	42
6	F	to	G	21
7	A	to	Н	42
8	H	to	1	65
9	1	to	ı	56
10	J	to	G	32
11	G	to	MAIN	10
12	K	to	L	70
13	L	to	M	54
14	M	to	N	52
15	N	to	0	44
16	0	to	P	23
17	K	to	Q	53
18	Q	to	R	55
19	R	to	S	19
20	S	to	T	42
21	T	to	P	28
22	P	to	OUT	10
			TOTAL	888

S.T Patricks Realty Pet. Ltd.

Sub w	vork No. II		120272
S.no	STORM W.		1124124
1	Providing & Laying RCC pipe drain class NP-3 with cement joint manholes, excavation etc complete in all respect.	Amoun	t Rs
(a)	R.C.C pipe 400 mm dia = 888 Mts @ Rs. 2500/-	22.20	Lac
2	Provision for construction of Double Road Gullies with 300 mm i/d RCC pipe connecting with manholes complete in all respect (L.S)	3.00	Lac
3	Provision for carriage of Material and other unforeseen items (L.S)	2.00	Lac
4	Provision for lightning ,Watching and temporary diversions of traffic	2.00	Lac
5	Provision for making connection with HUDA Line (L.S)	2.00	Lac
6	Provision for cutting of roads and making good to its in original condition.(L.S)	2.00	Lac
7	Provision for timbering and shoring (L.S)	2.00	Lac
8	Provision for Rain Water Harvesting system at selected places as applicable 8 Nos of Rain Water harvesting @ 3.50 Lacs each	28.00	Lac
9	Provision for Temporary Disposal arrangement till HUDA services are Provided	10.00	Lac
	Total	73.20	Lac
	Add 3% contingencies & PH Charges	2.20	Lac
	Total	75.40	Lac
Ad	d 49% departmental charges, price escalation unforeseen, admn. Charges	36.94	Lac
	(C/o to Final Abstract of cost )	112.34	Lac

S. T. Patricks Realty Fet. Ltd.

Sr. No.	Man	e of Sew	on I line	Length of Sewer in meters
31-140-	Mam	e or sew	er tine	200 DIA
1		2		3
1	A	to	В	70
2	В	to	C	54
3	C	to	D	20
4	D	to	E	45
5	E	to	F	15
6	F	to	G	35
7	G1	to	G	11
8	G	to	Н	35
9	H	to	1	60
10	1	to	1	16
11	J1	to	J2	60
12	12	to	J.	66
13	1	to	STP	10
	11 - 30	TOTAL	LENGTH	497

S.T Patricks Realty Pvt. Ltd.

	SEWE	RAGE SC	HEMI
S no	Description	Rs. (in	
1	Providing, Jointing, cutting & testing SW Pipes class 'A' and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc complete		
(a)	SW pipe 250 mm = 497M @ Rs. 2000 M	9.94	Lac
2	Providing for carriage of material and other unforeseen items (L.S.)	2.00	Lac
3	Provision for lighting and watching (LS)	2.00	Lac
4	Provision for cutting of roads & making good to its original condition. (LS)	1.00	Lac
5	Provision for making connection with HUDA line on master road (LS)	2.00	Lac
6	Provision for construction Sewerage Treatment Plant Including machinery complete in all respect. (160KL) @ 16000/KL	25.60	Lac
7	Provision for timbering & shoring (LS)	1.00	Lac
8	Providing and laying 150 MM dia CI/DI rising main from STP to HUDA sewer line 15 Mts OF 2040 /- Per Mtr	0.31	Lac
9	Provision for oblique junction (LS)	1.00	Lac
10	Provision for vent pipe as per P.H required (L.S)	2.00	Lac
	Total	46.85	Lac
	Add 3% contingencies & PH Charges	1.41	Lac
	Total	48.25	Lac
Add 4	9% departmental charges, price escalation unforeseen, admn. Charges	23.64	Lac
	TOTAL	71.89	Lac

S.T Patricks Realty Pvt. Ltd.

9.0 M WIDE ROAD							
Α	=	22	x	2	=	44	M
В	120	17	х	4	=	68	M
С	=	36	×	4	=	144	M
D	=	26	×	1	=	26	M
E	=	45	х	1	=	45	M
F	=	27	х	1	=	27	M
G	=	43	x	1	#	43	M
Н	=	33	х	2	=	66	M
1	=	21	х	2	=	42	M
J.	=	7	×	1	=	7	M
K	=	13	×	1	=	13	M
		TOTAL 9.0	M WII	DE ROAD	=	525	M
6.0 M WIDE ROAD							
a	=	15	X	1	=	15	M
b	= :	26	х	1	#.	26	M
c	3 <b>5</b> 2	48	х	1	:#::	48	M
d	=	25	ж	1	=	25	M
e	=:	35	х	1	.=:	35	M
		TOTAL 6.0	M WII	DE ROAD	=	149	М
ROAD		LENGTH	W	/IDTH	121	TOTAL A	REA
9.0M WIDE ROAD	=	525.00		5.50	=	2887.50	Sq.mt
6.0 M WIDE ROAD	=	149.00	100	6.00	=	894.00	Sq.mt
		674.00	M		=	3781.50	Sq.mt
10% FOR CURVE STONE/JUNCTION	=	67.40	M		=	378.15	Sq.mt
TOTAL	=	741.40	M		=	4159.65	Sq.mt
	SAY	750	M		=	4160.00	Sq.mt

S.T. Patricks Realty Pvt. Ltd.

		ROA	D WC
S.no	Description Units / Qty / Rate	Amoun	t in R
1	Provision for levelling & earth filling as per site conditions 7.35625 Acres @ Rs. 175000/-	12.87	Lacs
2 (i)	Construction of rodas by providing Granular sub-base 200 mm as per MORT & H Specifications conforming to clause 401 grading -B 400.1.		
(ii)	Providing, Laying, Spreading & compacting hand broken/ crushed stone aggregate to wet mix macadum confirming to physical requirements laid in 250 mm stone aggregate MORT & H Specification in two layers (compacted to 250mm (125+125) by taking material 1.32 times of the (thickness of the layer) including premixing of material with water in mechanical mixer.		
(iii)	50 mm thick DBM.		
(iv)	30 mm thick BC		
	for 4160 sqm @ Rs. 1500/- per sqm	62.40	Lacs
3	Provisions for kerbs and channels of CC (1:2:4) on both sides of road. (750 x 2 ) = 1500 Rmt @ Rs. 600/per Mtr.	9.00	Lacs
4	Provision for carriage of material and other unforeseen items (L.S.)	4.00	Lacs
5	Provision and fixing Guide Map at selected locations. (LS)	1.00	Lacs
6	Provision for Traffic Light Arrangement. (LS)	1.00	Lacs
7	Provision for metaling of commercial L.S	2.00	Lacs
8	Const. of Footpath as per specification for approach to each block (L.S)	3.00	Lacs
	Total	95.27	Lacs
	Add 3% contingencies & PH Charges	2.86	Lac
	Total	98.13	Lac
Add	49% departmental charges, price escalation unforeseen, admn. Charges	48.08	Lacs
	TOTAL	146.22	Lac

S. T Patricks Realty Pvt. Ltd.

		STREET	IGHTING
S.no	Description	Amount	in Rs.
1	Providing street lightning on roads at surrounding area as per standard specifications of HVPN with CFL complete in all respect = 7.35625 Acres (Complete) @ Rs 2.50 lacs (PER Acres)	18.39	Lacs
	Total	18.391	Lacs
	Add 3% contingencies & PH Charges	0.552	Lacs
	Total	18.942	Lacs
Α	dd 49% departmental charges, price escalation unforeseen, admn. Charges	9.282	Lacs
	TOTAL	28.224	Lacs

S.T Patricks Realty Pet, Ltd.

UB	WORK	( NO-VI		
-		HORTICULTURE (Plantation	& Roads	ide Tree
1	Deve	lopment of Lawn Areas:	Amou	int in Rs.
	a)	Trenching the ordinary Soil up to depth of 60 cm including removal and stacking Serviceable material and disposing of by spreading and leveling within a lead of 50m and making up the trenches area to proper levels by filling with earth mixed with manure before and after flooding trenches with water including cost of imported earth and manure		
	b)	Rough dressing of turfed area		
	c)	Grassing with "Doob Grass" including watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit moving in rows 7.5 m apart in either direction		
		4281.783 Sq.mt OR 1.05 Acres @ 1.5 Lacs / Acres	1.575	Lacs
			- 3/12-0/3/4-5	
2		sion and planting trees along boundary @ 12M interval		
	Total	Road length = 750 /12 =62.50 X 2 = 1 <del>25 No</del> 's		
	Cost I	Detail 62.54 107 D 205		
	Excav	ation Rs. 60/-		
	Manu	re Rs. 90/-		
	Tree	Plants Rs. 150/-		
	Tree	Guards 2000,00		
		Total 2310.00		
	75 No	's tree @ Rs 2310/-	1.73	Lacs
		Total	3.31	Lacs
dd	3% cor	itingencies, PE & Consultancy Charges	0.10	Lacs
		Total	3.41	Lacs
	49% de ges	epartment charges, price, and escalation unforeseen Admin	1.67	Lacs
		Total	5.08	Lacs
		(C/o to Final Abstract of cost)		

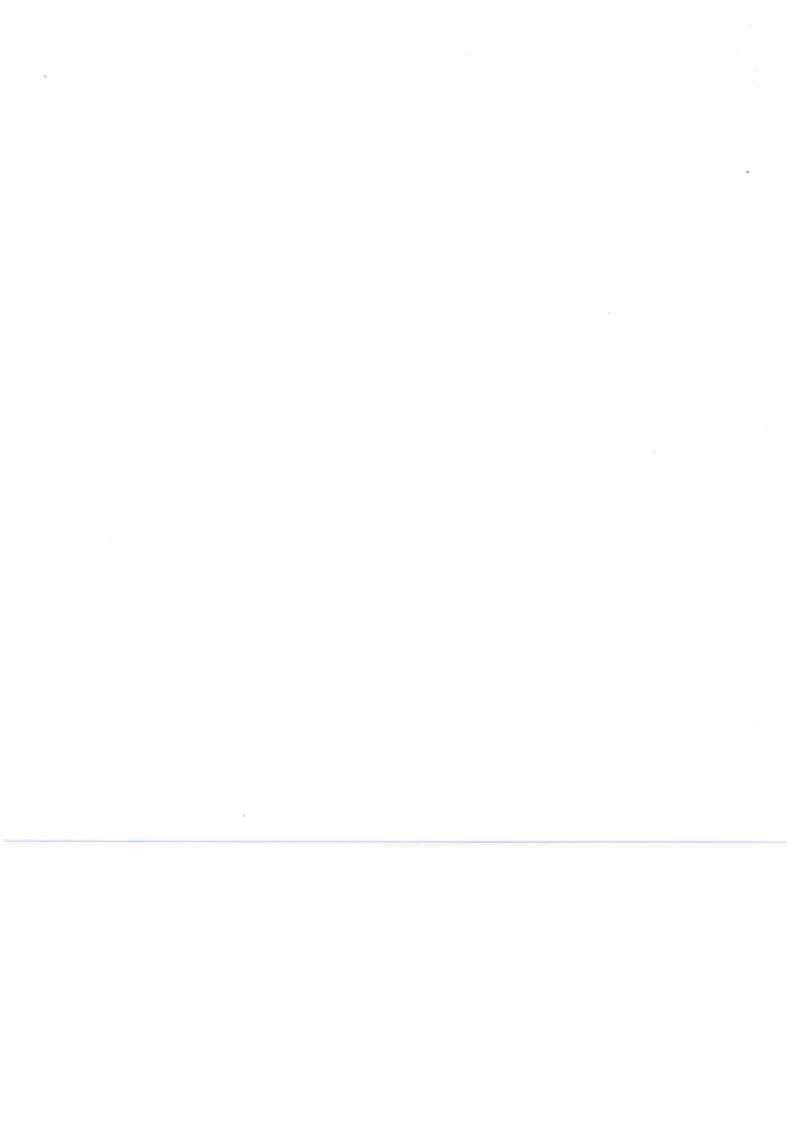
S. T Patricks Realty Prt. Ltd.

SUL	3 WORK NO-VII	SERVICES & RESURFA	CING OF R	OADS
_			Amount i	n Rs.
1	Provision of M7 street Lighting,	C charges for Water Supply, SWD sewerage, roads, Horticultural etc.		
	a)	Complete in all aspect, including operational & establishment charges as per HUDA norms for 10 Years Completion		
	7.35625 Acres (	® Rs 8.00 Lacs per Acres/-	58.85	Lacs
2	Provision for re- coarse and 30mr	surfacing of roads after 5 years oBM including leveling in BC as per design whichever is safer.	27.46	Lacs
3	Re-Surfacing of r	oads 2nd Phase after next 05 years of 1st Phase (50mm BC or as per crust design whichever is safe.		
	4160 @ Rs 825,	/- per Sq.mt	34.32	Lacs
named to be		Total	120.63	Lacs
Add	3% contingencie	s, PE & Consultancy Charges	3.62	Lacs
		Total	124.24	Lacs
Add	i 49% department	charges, price, and escalation unforeseen Admin charges	60.88	Lacs
		Total	185.12	Lacs
		(C/o to Final Abstract of cost)		

S.T Patricks Realty Pvt. Ltd.

				Area in Acres	4					Decision			Forma	Formazini Level	Invert	Invest Level	90	Depth	
Sm one	ame o	Name of storm Line	Self	Branch	Total	Required Discharge for cuses @ 1/4" Redn full Intensity per frour	Length of Drate to Moters	Dist of Drain In NOM	Design Discharge III Cum	Velocity in Meter per second	Shipe	Yalk in Meters	At Upper End	As Lower End	Upper End	Altuwer	At Upper End	Ar Lower End	Average
П	1	N	6	*	3	9	7.	3.83	(6)	10	77	12	13	14	25	16	12	150	93
i	H. HW	VS & COM	TOWER- B. HWS & COMMERCIAL BLOCK	3000															
~	9	a	0.28	0079	0.28	6007	33	400	438	160	350	69'0	214.25	214.20	213.25	31816	1.00	1.04	1.02
m	9	0	0.54	628	0.82	020	91	400	4.19	16.0	350	0.16	21420	21415	213.34	213.00	1.04	1.15	1.89
G.	9	0	0.59	1.82	1.41	0.35	62	400	4.18	0.91	350	0.08	214.15	214.18	213,00	212.92	1.15	126	131
9	4	tal .	0.27	141	1.68	6.42	15	900	4.18	16.0	350	9,15	21438	31431	312.92	212.76	1.26	1.45	1.35
м	D.	-	0.34	1.68	2,02	0.50	42	100	418	160	350	6.12	21421	219,24	212.76	212,64	1.65	1,50	1.52
Dr.	8	0	0.22	202	2.24	950	E C	400	419	0.91	350	0.66	214,24	21425	212.64	212.58	1,60	193	1.63
4	\$	=	0.15	1100	0.15	100	415	400	613	16:0	350	0.12	234.25	214.29	219.25	218.13	1.00	3.16	1.98
工	\$	-	0.27	0.15	25.0	0.13	ş	000	4.18	16.0	350	0.19	334.29	11427	21313	712.94	116	133	1.24
T.	8	-	0,40	0.42	0.82	6.21	疆	400	4.18	16.0	350	0.16	224.27	214.26	212.94	212.78	133	141	1.10
	8	0	0.23	201	106	626	32	400	4.18	0.91	350	90.0	214.16	214.25	211.78	212.59	1.48	158	1.52
0	8	a MAHN	000	107	3.07	0.77	10	400	4.18	160	350	000	21425	27472	212.58	212.56	1,67	3.60	14.8
3	TOWER-A BLOCK	KH.							100			1000		0.000000	The state of the s				
×	2	2	0.44	000	0.46	0.11	20	400	4.10	160	330	978	214.42	21438	213.42	213.22	1.00	1,126	1.08
+	22	N	070	0.46	9970	0.36	52	400	#38	16.0	350	9779	214.38	21434	119.12	213.07	115	1772	1,22
×	H	×	0.32	9970	26'0	0.24	65	400	4.18	0.91	359	9.15	21434	214.31	213.07	212.92	3325	136	1.33
Z	8	0	11.0	0.97	123	0.32	4.5	400	4,10	0,91	350	6.13	214.11	21429	212.92	213.79	1.39	150	3,45
9	B	IL.	0.31	38	1.59	0.40	12	400	4.18	16.0	350	2000	21429	21427	212.79	212.73	1.69	154	1.52
×	8	0	0.46	0.00	0.48	0.12	23	400	4.18	160	350	0.25	31442	21438	223.42	213.27	1,00	1111	1.06
2	8	œ.	0.32	0+0	00'0	0.20	33	400	4.24	0.91	350	91.0	214.38	21434	2002	213.18	1.11	1.23	117
=	8	w	6.15	090	969	0.24	19	409	4,38	0.91	350	0.05	214.24	21431	213.13	213.06	1,23	1.25	**1
on:	₽.	1	0.35	960	1.30	0.93	42	400	458	160	350	0.12	214.31	214.29	213.05	212.94	1.25	1.15	130
H	8	i.	0.20	130	1.50	0.37	95	400	430	160	350	0.08	214.29	214.27	212.94	312.86	1,35	1.11	1.38
4	ā	TUG	000	2.00	3.00	0.01	10	Acres	4.40	40.00	1960	0.09	1000000	40000		1000000	100000		20.00

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