REVISED Service Plan estimate

# OF GROUP HOUSING SCHEME AREA MEASURING 13.32 ACRE

SECTOR-99, GURGAON MANESAR URBAN COMPLEX, HARYANA

SERVICE PLAN ESTIMATE FOR PUBLIC HEALTH ENGINEERING SERVICES

Client -

MI/s SHIVNANDAN BUILDTECH PVT. LTD

#### Architect

ICHINEN ARCHITECTS PVT. LTD.

 US Complex, Opposite Apollo Hospital, Mathura Road, New Delhi 110076

Plumbing & Fire Suppression Consultant

PARADISE CONSULTANTS

Plot No. 96, Pocket-1, Jasola Vihar, New Delhi -110025

PROJECT REPORT / ESTIMATES FOR PROVIDING INTERNAL SERVICES e.g. WATER SUPPLY, FIRE, CEWERAGE & STORM WATER DRAINAGE ETC. IN RESPECT OF Revised & Proposed Building Plan Of Group Housing Colony Area Measuring 13.32 Acre at sector - 99 Gurgaon Manesar Urban Complex, Haryana

Gurgaon is located at 28\*28'N 77\*02'E28.47'N 77.03\*E/28.47; 77.03. It has an average elevation of 2:20 metres (721 ft) Gurgaon district, comprising four blocks Pataudi, Sohna, Gurgaon and Farrukhnagar, was created on 15 August, 1979. On its north, it is bounded by the district of Rohtak and the Union Territory of Delhi. Faridabad clistrict lies to its east. On its south, the district shares boundaries with the district of Mewat. To its west lies the district of Rewari and the State of Rajasthan. Gurgaon is situated between the Himalayas and Aravalis mountain ranges. It is surrounded on three sides by Haryana and to the east, across the river Yamuna by Uttar Pradesh. Its greatest length is around 13 miles and the greatest breadth is 17 miles. Delhi's altitude ranges between 180 to 305 meters above sea level.

Revised & Proposed Building either Of Group Housing Colony Area Measuring 13.32 Acre is a residential proposed between at sector - 99 Gurgaon Manesar Urban Complex, Haryana for development by M/s SHIVNANDAN BUILDTECH PVT. LTD.

#### Water Supply

#### 1 Source

The source of water supply shall be HUDA water supply connection. It has been proposed to construct undergorund tanks of capacity as per attached detaileds for domestic and other purpose. The underground tanks will be filled up from the riser and then pumped to the overhead water tanks of each tower.

#### 2 Pumping Equipments

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has been provided in case of any electricity failure. Generator will be provided separately or added to the capacity of main generator.

#### 3 Sewerage

This scheme is designed for sewer connecting to the proposed sewage treatment. The sewerage system has been marked on the respective plans.

The sewer lines have been designed for 3 times average DWR in relation to the water supply demand assuming that 80% fo the domestic water supply shall find its way into the proposed sewer SW pipe sewers have been proposed designed to run half full. The sewers have been designed on 0.75 mtr. per second velocity is. Self cleansing velocity. Necessary provisions for laying SW pipes manholes etc. has been made in this estimate.

Necessary design statement for entire sewerage system has been prepared and attached with estimate.

For Shivnandan Buildtech Pvt. Ltd.

Director

ARCHITEC'I RAJESH JAIN EA/91/13678

#### Storm Water Drainage

The storm water drain is being designed to carry 6.25 mm rain fall per hour. Also suitable provisions are contemplated in our scheme to ensure better recharging of under ground water table in the area. RCC NP<sub>3</sub> pipe drain with minimum 400 mm dia is proposed in this area.

#### 5 Roads

Cost of road has been taken in the estimate

#### 6 Street Lighting

Provision for street lighting on surrounding area has been made.

#### 7 Horticulture

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

#### 8 Specifications:

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

#### 9 Rates

Estimates for providing services in this site has been prepared on the recent HUDA rates.

#### 10 Cost

1411.62

The total cost of development in this Project including various PH & B & R services works out to Rs. #61:93 lacs which includes 3% contingency and PE charges and 49% departmental charges also.

The cost per gross acre for this phase works out to Rs. RSET Lacs/acre 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.

M/s SHIVNANDAN BUILDTECH PVT, LTD

Authorised Signatory



ARCHITECT RAJESH JAIN CA/91/13678

For Shivnandan Buildtech Pvt. Ltd.

Director

### REVISED & PROPOSED BUILDING PLAN OF GROUP HOUSING SCHEME AREA MEASURING 13.32 ACRE AT SECTOR-99, GURGAON MANESAR URBAN COMPLEX, HARYANA

DESIGN	CALCU	LATION
DECISIO	2000	

1 Daily Domestic Water Requirement

Nos. of Blocks						
Apartment				680		
EWS				124		
Service Personnel				68		
Population @ 5 person per unit - Apart	tment			5		
Population @ 5 person per unit - EWS				5		
Population @ 2 person per unit - Servi	ce Personn	el		2		
Therefore population (Apartment)				3400	persons	
Therefore population (EWS)				620	persons	
Therefore population (Maintenance Pe	rsonnel)			136	persons	
Total Population				4156	pprsons	
			SAY	4156	persons	
Water requirement for apartment			@	172.5	liter / head	day
				716910.00	lpd	
			or	716.91	KLD (1)	
Other Requirement						
Nursery School		1	0	10000	lit/day	
Therefore daily water requirement				10000	lit/day.	
160	02			10.00	KLD	
-						57

c.) No. of Commercial

Daily water requirement lumpsum Therefore daily water requirement

Daily water requirement lumpsum

Therefore daily water requirement

b.) No. of Community Center

Lumpsum

5000 lit/day

25000 lit/day

25.00 KLD

25000 lit/day

5000 lit/day

5.00 KLD

Total

40.00 KLD (3)

18 mm

For Shivnandan Buildtech Pvt. Lld.

ARCHITECT RAJESH JAIN EA/91/13678

2 a.)

3	otal Daily Water Requirement (1+2)		756.91 KLD
0	Domestic Water Requirement @	65%	491.99 KLD
		Say	500.08 KLD
ii)	Flushing Water Requirement @	35%	264.92 KLD
		Say	270.00 KLD
4	Water usage from STP		
a)	Area under Parks	4.81 acre	
	Daily water requirement	0	25000 lit/acre/day
			120215.55 lit/day
			120.22 KLD
b)	Area under Roads		
100	Daily water requirement	Lumpsum	25000 lit/acre/day
			25000 lit/day
			25.00 KLD
c)	Under Road+ Parks (a+b)	Total	145.22 KLD
*		Say	150.00 KLD
d)	Total treated water requirement [3 (ii) + c]		420.00 KLD
	Total Daily Requirement [3 (i) + 4d]		920.00 KLD
		SAY	920.00 KLD

For Shivnandan Buildtech Pvt. Ltd.

Director

5	Underground Tank		2.5	
	Daily fresh water requirement for dor	mestic use	=	500.00 KL
	Capacity of under ground tank			
	24 hours storage	500.00 x 24 / 24		500.00 KL
	Fire Tank Capacity As/NBC Code 10	0 kld. But Proposed		375.00 KL
		Total		875 KL

It is proposed to provide under ground tank of capacity 875 KL which also includes 375 KL capacity for fire fighting.

This tank will have Six compartments, two for fire, two for raw and the other two for domestic use. The water first enters the fire compartment, then over flows to the raw use compartment so that the water in the fire compartment shall remain fresh.

FIRE WATER TANK	375.60 KL
TOTAL UG STORAGE (DOMESTIC + FLUSHING + HORTICULTURE)	920.00 KL
RAW WATER TANK	200.00 KL
DOMESTIC WATER TANK	300.00 KL
FLUSHING, HORTICULTURE & ROAD WASHING (PART OF STP)	420.00 KL

For Shivnandan Buildtech Pvt. Ltd.

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ARCHITECT RAJESH JAIN GA. 92/13678

PUMP ROOM					
hanales 8 11 Pat					
hanning 8 M C.					
COMPANIES AND SOL	hool				
nopping a re. oc.	1001		=	491.9	5 KI
a standby)			177	401.80	J KL
	1814		-	20.50	KL/HR
			=		om A
			=	5.0	) m
		- 6	=	5.0	m
350 X 70				59.0	) m
60×7570 60	2	1.07 11	=	69.0	) m
20.50 >	<1000x6	9/4500x60x0.6	10	8.7	HP
2 (480.00)	SA	Y	=	10.0	HP
Location		Discharge		Head	HP
Pump Room	2	2850		105.00	
Pump Room	2	2850		105.00	120
Pump Room	2	2850		105.00	120
Pump Room	4	180		105.00	15
Pump Room	1	2850	_	45.00	40
Nos.	HP			. 0	
4+4	10.0		=		HP
lumb 4	15.0		=	60	HP
SECTION SECTION			=	25	HP
				165 126	HP
0r 125 x	0.746x1	.50		184.63	KVA
0000	Say			149:00	
	Location Pump Room A+ 4	491.99 / 8 / 4  3 5 0 × 70  6 x 75 7 0 6 2  20.50 × 1000×6 3  SA  Location Nos.  Pump Room 2  Pump Room 2  Pump Room 4  Pump Room 1  Nos. HP  4+ 4 10.0  4 15.0	491.99 / 6 / 4  3 50 × 70  6 x 75 7 0 6 2 9 0 7 10  20.50 x 1000x 69 / 4500x 60 x 0.6  SAY  Location Nos. Discharge Pump Room 2 2850 Pump Room 2 2850 Pump Room 2 2850 Pump Room 4 180 Pump Room 1 2850  Nos. HP 4 + 4 10.0  Um 7 4 15.0	491.99 / 6 / 4 = GY  = 3.50 \times 70  G(\times 75 \times 60) = 9.07 \times 6 = = 20.50 \times 1000x69 / 4500x60x0.60  SAY =   Location Nos. Discharge  Pump Room 2 2850  Pump Room 2 2850  Pump Room 4 180  Pump Room 1 2850  Nos. HP  4+4 10.0 = = 44 15.0 = 44 15	491.99 / 6 / 4 = 20.50  341.65 (6)  = 0.0  = 5.0  350 \times 70  60 \times 75 / 0 60 = 9.07 \times = 69.0  20.50 \times 1000 \times 69 / 4500 \times 60 \times 000  Extra 10.0  Location Nos. Discharge Head  Pump Room 2 2850 105.00  Pump Room 2 2850 105.00  Pump Room 4 180 105.00  Pump Room 1 2850 45.00  Nos. HP  4+ 4 10.0 = 40  4-4 15.0 = 60  25  165 126  165 126  167 126  189-68

18 hh

ARCHITECT RAJESH JAIN CA/91/13678 For Shivnandan Buildtech Pvt. Ltd.

Director

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Description	Amount (Lacs.)
	\$ 381.34
Sub Work - I Water Supply	340-14 819.93
	S 155.78 as
ub Work - II Sewerage	100.00
	( 109.21 ds
ub Work - III Storm Water Drainage	88.42
	\$ 289.73
ub Work - IV Roads & Footpath	\$21.71
	8 51.11 196
ub Work - V Street Lighting	5+-15-20.44
	8 15.04 6
ub Work - VI - Horticulture	P 24.78
	- 8 409.52 a
ub Work - VII - Maintenance of Services for 10 years including re	surfacing of roads P
ter 1st 5 years & II phase i.e. 10 years of maintenance (as per HU	DA norms) 470:08
	Total   L/11 - 6 9 894.30
BRING RICKE STORE FIGHTX ONE LACE HINCE THE CO	QU.C.L.
In forwarding letter N	1411.65 Ps-73.95 Por Acor 13.32 Acar 105.98 las
thorized Signatory  The standard subject to or in forwarding letter No.  Superintending E for Chief Engineer H.  Superintending E for Chief Engineer H.  Superintending E for Chief Engineer H.	1411.65 Ps-73-95 Per Acor 13.32 Acre 105.98 loc mate
thorized Signatory  The standard subject to de in forwarding letter No	1411.65 Rs-73.95 Per Acor 13.32 Acar 105.98 loc mate  Ingineer (Hb) Shivnandan Buildtech Pvt.  SVP

Ichinen Architects Pvt. Ltd. Paradise Consultants Addl. Chief Engineer HSVP, Gurugram

page 7

REVISED PROPOSED BUILDING PLAN OF GROUP HOUSING SCHEME AREA MEASURING 13.32 ACRE AT SECTOR-59, GURGAON MANESAR URBAN COMPLEX, HARYANA

PAN AI	BSTRACT OF REVISED COST A SUL	Head I (wa	rater 70
Description	0	Amount (Lacs.)	
	0	53.9	
Sub Head - (1) Head Works	Ŋ.	45.13 40.75	
Sub Head - ( II ) Pumping Machinery	ß	97.50.75.00	
Sub Head - (III ) Distribution System ,	ushing water Kising main	43.75 20.25	
Sub Head - ( IV ) Irrigation Scheme	850	18-62-14-28	
Sub Head - (V) Fire Scheme		43.4848.20	
		248 48	
	Total	7.45 208.48	
Add 3% Contingencies & PE. Ch 47	15	6.65 8.26	
		255-93	Q
	Total	228-49 214.74	-
Add 49% Departmental Charges , Parti	escalation	491-86 460:22	
Unforseen Adjun	135-4114	5	
	Grand Total	340 8243.96	
		381.34	a
(CO to final abstract of cost)	Say	34-15310:06	

For Shivnandan Buildtech Pvt. Ltd.

Director

ARCHITECT RAJESH JAIN EA/91/13678

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1	Sub Work I				Water Supply	
	Sub Head No. I				Head Works	
S. No.	Description	Unit	Qty	Rate	Amount	-
					Rs. (lacs)	
1	Construction of boosting chambers of suitable size along with under ground tank and pumping machinery room and generating set etc. complete in all respects.					500
	Details of boosting station		·			
0	construction of boosting chamber	LS		3500	7.50	
ii)	UG tank capacity inclusive fire fighting. , Composition	L KL	875	-3860	3938 26.25	
	in all respect (500/2+375 kg	1			30.63	103
	Provision for carriage of material and other unforeseen items.	LS			2.00	
5	Provision for facilites staff for Maintenance	LS	-	-	5.00	
	(C.O. to abstract of cost of Sub-work No.I)				£1-68-40.75	Lacs
				Say	A Comment of the Comm	trafe bullioning grown
					K. 45.13	as

For Shivnandan Buildtech Pvt. Ltd.

Director

ARCHITECT RAJESH JAIN EA/91/13678

	Sub Work I				Water Supply	
	Sub Head No. II	3		Pı	imping Machine	ry
3. No	Description	Unit	Qty	Rate	Amount	
			Tubrichia (see		(in Lakhs)	
1	Providing & installing electricity driven pumping set capable of delivering 350 LPM of water against a total head of \$20m complete with motor and other accessories (For Domestic - 10.0 HP)	Nos.	4+1	126000.00	5.00 la	
2	Provision for diesel engine generator set each for	100	4+1	Q 6 1 40 10	, 9,00	Q,
•	standby Arrangements for booster pump complete with gear haed arrangements of following capacities.		2.	(Ls)	15.0	les
	1 No \$60KVA	Nos.	1	1-109600:00	-14.00	
3	Providing & Installing pumping set of following capacities for fire protection:					
1)	2850 LPM @ 105 M Head (DG Pump)	Nos.	2	950000.00	19.00	
ii)	2850 LPM @ 105 M Head (120 HP) Hydrant	Nos.	2	600030.00	15 12:00	-
iii)	2850 LPM @ 105 M Head (120 HP) Sprinkler	Nos.	2	690000.00	15,4-,12,00	
iv)	180 LPM @ 105 M Head (15 HP)	Nos.	4	125000.00	5.00	
v)	2850 LPM @ 40 M Head (40 HP) Water Curtain	Nos.	1	350000.00	3.50	
4	Provision for making foundations & erection of pumping machinery.	LS	-		5.00	
5	Provision for pipes, valvés & specials inside the pump chamber.	LS			5 - 1:60	
6	Provision for carriage for materials and other unforeseen items.	LS			2.50 ta	
7	(C.O. to abstract of cost of Sub-work No.1)	chico			2,50 (0	+
	for bossing chause inch	0x10	100	Say	75:00	

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ARCHITECT RAJESH JAIN CA/91/13678 For Shivnandan Buildtech Pvt. Ltd.

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REVISED PROPOSED BUILDING PLAN OF GROUP HOUSING SCHEME AREA MEASURING 13.32 ACRE AT SECTOR-99, GURGAON MANESAR URBAN COMPLEX, HARYANA

_ /	Sub Work I		1997		Water Supply	
	Sub Head No. III			Distribut	ion System/Ris	ing Main
				SU	Flushing 4	Jaser-
-	Description	Unit	Qty	Rate	Amount (Rs.)	
1	Providing, laying, jointing & testing C.I./D.I. pipes including cost of excavation complete as per ISI marked.			12.50	11.76	(0,
9	100 mm dia	M	941	1550.00	1458560. <del>O</del> 0	
ii)	150 mm dia	M	188	1050.00	366600.00	
2	Providing, fixing & Testing butter fly valves including cost of complete in all respects.			1575	<del>3.96</del>	as
i)	100 mm Vd	Nos.	1	12000.00	12000.00	
ii)	150 mm l/d	Nos.	2	15000.00	30000.00	
3	Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.					ni ni
i)	150 mm Vd	Nos.	1	18000.00	18000,00	
4	Providing and fixing air valves and scour valves including cost of complete in all respects.	Nos.	3	10000.00	30000.00	
5	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.	7	1000.00	7000.00	-
6	Provision for carriage of material	LS			150000.00	
7	Provision for cutting the roads and making to its original conditions.	LS		-	150000.00	
8	Making water supply connection. with Hubip	LS	•	-	250000000	_
	Provision for D.I. rising main from HUDA water supply line & tubewells to UG tank.		825	15751	4.061	1
	150 mm Vd	М	-306-	1950.00	462400.06	
10.	Parr fru 150/100 mm & flushing	lin	(4.5)		2000	a
	(C.O. to abstract of cost of Sub-work No.I)	- 3100	13-1		2924550.00	
				Say	29,250	ives
						ta

For Shivnandan Buildtech Pvt. Ltd.

ARCHITECT RAJESH JAIN EA/91/13678 Dom- Woder Supply - Cin

		4 11 /	
Line we	loomm	150 mm	
UGT. DI		9000	Line
D1 - D5-	JS To A.	1600	
05-03		9 m	
D3-D4		2900	
D4-D5		yum	
05-06	37 m		
D6-D7	47 m	_	
80-20	46 m		
08-09	48 00	-	
210 - Pa	רמ כבר	_	
501-DII	15 m		
DII-DIZ	16 m	_	
012-013	year	= 1	
13- DIA	39 m	-	
DIM- DIS	38m	_	
012-13	125 m		
D6-ENS	60 m	_	
D3-Comm	som	-	
D13-Shopa	25m	-	
	669mh	188 00	SET OF
MISC	a7am	241212202	
	941002		

A	Sub Work I				Water Supply	
	Sub Head No. IV				Irrigation	
5. No	. Description	Unit	Qty	Rate	Amount (Rs.)	-
1	Providing, laying, jointing & testing uPVC pipe line confirming to IS 4985 including cost of Excavation etc. complete in all respect.				15.66	as.
1)	80 mm dia	М	1566	(@00.00	1252800.66	
2	Providing and fixing 20mm dia Irrigation hydrant valve complete in all respect.	Nos.	54	3500	1.89	ans
3	Providing & fixing valve 25mm dia	Nos.	54	400.00	21600.00	
4	Providing, fixing & Testing butter fly valves including cost of complete in all respects.				-	
i)	80 mm i/d	Nos.	5	4750.00	23750.00	
5	Providing and fixing air valves and scour valves including cost of complete in all respects.	Nos.	2	4500.00	9000.00	
6	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.	7	1600.00	0.07 6000.00	
7	Provision for carriage of materials etc. and other unforsean charges	LS			15000.00	
8	Provision for cutting of roads & making good to its in original condition	LS	*	-	30000.00	
					18.62	A.
				Total	1422003:03	
-				Say	14,23	Lacs

For Shivnandan Bu. - scii Pvt. Ltd.

out f vi. Liu.

Director

ARCHITECT RAJESH JAIN CA/91/13678

Sub Head No. V					+
		-		Fire Scheme	-
Description	Unit	Qty	Rate	Amount (Rs.)	-
Providing, laying, jointing & testing M.S. pipes for fire ring main including cost of Fittings, Valves & excavation complete (as per ISI marked) in all respect.			1575	24.70	c.y
150 mm dia	М	1568	-2000.00	-3436000:00	
80 mm dia	М	525	1000.00	525000.00	
Providing and fixing External Fire Hydrants complete with masonary chambers.	Nos.	35	15000.00	525000.00	
Providing, fixing & Testing butter fly valves including cost of complete in all respects.					
150 mm dia	Nos.	6	15000.00	90000.00	
80 mm dia	Nos.	35	10000.00	350000.00	
Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.			75001.	2.63/9	
80 mm l/d	Nos.	35	€000.06	175600.00	
Provision for cutting of roads and carriage of materials etc. and other unforsean charges	LS	2 1		40000,00	
Provision for indication plates	Nos.	35	1000.00	35000.00	
Provision for carriage of material	LS	-	-	50000.00	
		Total		43.48	e,
		Sav		49-06	Loss
	fire ring main including cost of Fittings, Valves & excavation complete (as per ISI marked) in all respect.  150 mm dia  80 mm dia  Providing and fixing External Fire Hydrants complete with masonary chambers.  Providing, fixing & Testing butter fly valves including cost of complete in all respects.  150 mm dia  Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.  90 mm i/d  Provision for cutting of roads and carriage of materials etc. and other unforsean charges	fire ring main including cost of Fittings, Valves & excavation complete (as per ISI marked) in all respect.  150 mm dia M  80 mm dia M  Providing and fixing External Fire Hydrants complete with masonary chambers.  Providing, fixing & Testing butter fly valves including cost of complete in all respects.  150 mm dia Nos.  Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.  90 mm i/d Nos.  Provision for cutting of roads and carriage of materials etc. and other unforsean charges LS  Provision for indication plates Nos.	fire ring main including cost of Fittings, Valves & excavation complete (as per ISI marked) in all respect.  150 mm dia M 1568 80 mm dia M 525  Providing and fixing External Fire Hydrants complete with masonary chambers. Nos. 35  Providing, fixing & Testing butter fly valves including cost of complete in all respects.  150 mm dia Nos. 6 80 mm dia Nos. 35  Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.  80 mm l/d Nos. 35  Provision for cutting of roads and carriage of materials etc. and other unforsean charges LS -  Provision for indication plates Nos. 35	fire ring main including cost of Fittings, Valves & excavation complete (as per ISI marked) in all respect.  150 mm dia M 1568 2969.66 80 mm dia M 525 1000.00  Providing and fixing External Fire Hydrants complete with masonary chambers. Nos. 35 15000.00  Providing, fixing & Testing butter fly valves including cost of complete in all respects.  150 mm dia Nos. 6 15000.00  90 mm dia Nos. 35 10000.00  Providing, fixing & Testing Non Return valves (NRV) including cost of complete in all respects.  90 mm l/d Nos. 35 6099.66  Provision for cutting of roads and carriage of naterials etc. and other unforsean charges  Provision for indication plates Nos. 35 1000.00  Provision for carriage of material LS	1575   24.76

For Shivnandan Buildtech Pvt. Ltd.

ARCHITECT RAJESH JAIN CA/91/13678 Director

-	Sub Work II		S	ewerage Scher	no .	
S. No	Description	Unit	Qty	Rate	Amount (Rs.)	-
1	Providing, lowering, jointing, cutting salt glazed stone ware pipes and specials into trenches including cost of excavation, bed concrete lot of manholes complete.					
ŋ	250 mm Vd		100		9.00	
a)	Average depth 1.5 m to 4.5 m	м	183	1250.00	2, 29	
-,	Priorega depart ioni to 4.5 m	···	100	1200.00	#1200G;00	-
ii) -	250 mm i/d			18001	5.18	24
a)	Average depth 1.5 m to 4.5 m	М	288	4656:00	- 47520 <del>0.00</del>	_
Hi)	300 mm i/d				210	
	Average depth 1.5 m to 4.5 m	м	158	2050.00	323600.00	-
0/	Average depart 1.5 iii to 4.5 iii	m	100	2000.00	920000:00	-
iv)	400 mm dia i/d			27001	4.561	0
-	Average depth 1.5 m to 4.5 m	M	189	2450.00	- 414050:00	
					2.50 (0	
2	Provision for lighting, watching and temporary diversion of traffic	LS			199000.00	
3	Description for cuttion of seads and continue of				- 1	- 5
	Provision for cutting of roads and carriage of materials etc. and other unforsean charges	LS	5		100000.00	
4	Provision for connection with HUDA can consider	18~	.1 -		100000.00	
	Ga 1 1110 Sec.	31			1	
5	Cost of 610 Kild Sewerage Treatment Plant. Up	LS	- 1		5500000,00	-7
	terham lew					
6	Provision for CI / DI pipe 150 mm dia pipe from STP. To Huda Main Line.	LS		5	500000.00	
					101.21	93
				Total	8685650,30	
					3.04 4	2
+	Add 3% contingencies & PE Charles			Total	200560,5 8946210.60	Anc
					51,23	laco
	Add 49% Deptt. Charges price escal	ahim	under	nach	4389647:905	
-	Add 49% Deptt. Charges price escal	Sta	, 0	Total	13320957,06	8la
-	(C.O. to abstract of cost of Sub-work No. 1)			Say	133.30	

ARCHITECT

ARCHITECT RAJESH JAIN CA/91/13678 For Shivnandan Buildrech Pvt. Ltd.

M. Erracter

S.W. PIPE

	3,10		
LIBENO	250 mm	360mm	you may
	and the same	10.00	
21-52	108 00		
52-50		128 000	
83-34		-	164 07
55-36	138 m	_	
86-34	18 m		- H
S4-STP			5 m
N.5 to 5,	45m	-	
	47100	158 m	169m
97.4			

	ii/ub Work - III			S	torm Water Dra	in
S. No	Description	Unit	Qty	Rato	Amount (Rs.)	
1	Providing, lowering, jointing, cutting RCC NP <sub>3</sub> pipes and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.					
1)	400 mm i/d			2500	24,90	as
a)	Average depth 1.5 m to 4.5 m	M	996	-2450:00	2440200:00	+
ii)	500 mm l/d					
a)	Average depth 1.5 m to 4.5 m	М	25	2850.00	71250.00	
2	Provision for Road Gully & Drain   10 8 300 mm	ndLS			509000.00	
3	Provision for cutting of roads and carriage of materials etc. and other unforseen items	LS	-		150000.00	
4	Provision for disposal arrangements Recharge	Nos	13	250000.00	32.50 (d	
5	Provision for lighting, watching and temporary diversion of traffic	LS			500000.Q0	
6	Provision for connection with HUDA con manualtu	_ LS			150000.00	
	Add 3% contingencies 4, 72° Chaste			Total	4764460.00 478810.50	
	1	Mark and the second	1	1	-5004536:20	2:13
-	Add 49% Deptt. Charges Price Cocale An	m, un	Jospin	Total	-2007202-945	73.24
	Astiva charles			Total	8842097,00	32-8
+	(C.O. to abstract of cost of Sub-work No. 1			SAY	_88.47	lacs   09.1

For Shivnandan Buildlech Pvt. Ltd.

ARCHITECT RAJESH JAIN CA/91/13678 Director

## material statement of swo

Live no	400 mm	2010	יייי
AL-AL	60 m		21'4'2''.*C
A2-A3	77 m	_	
A3-A4	26 m	_	
AU-AS	72 m	-	
Asa-As	67 m	_	
A5- A6	10 07		
A6-A7	m FZ	_	
87-BB	nz w	_	
A8- A8	68 m	-	
A10-A11	78 m	_	
A12 - An	1500		
A11 = A13	10 m		
A13 - A14	41 m	-	
BIK- BIS	39 m	-	
A15- A16	37 m	_	
1216- BIT	hu m	_	
A17- A18	.26 w	_	
A18- A9	41 m	-	
AS- RWH	113 II m	-	212
RWH 13 d	how tall -		25 m
q	104 m	)	25m

	to Work IV				Road Work		7
S. No	Description	Unit	Qty	Rate ,	Amount (Rs.)		1
1	Provision for leveling & earth filling as per site condition 13.32 acro @ 426000/acre	Acres	13.320	125000,00	19,99	₹3	
2	morpacted to 75 mm th/ck WBM conforming to MOTspecification (table 400-6,grading no 2) 7043.999 sqm.X0.10 m - 704.399 cum say 704.50 cum @ 950/ cum	mm (dem e	S13 Stone a Barr 701	20000	-868900.00		
	ii) Wearing coat (top coat) 100 m/n thick (53- 22.4)mm gauge compacted to 75mm thick Sconforming to MOT specifications (table 400-6, grading no 3) 7043.999 sqm.X0.10 m - 704.399 cum say 704 cum @ 950/ cum	Cu-mir:	120	_959.00	_66880Q.00		
	iii) 25mm thick pre-mix carpet with seal coat 7043.999 sgm. say 7044 sgm @ 265/ sqm	Sq. mtr.	12366	12.00	148.39 1886560,99	les	
	Provision for making approach and povement to building block by providing concrete pavement or tiles. Etc. 9204-095 agm. Say 9285 agm @ 500 /sgar Cemirlet in oil respect	Rm)	1070 -3285	600	6.42	-	Q.
4	Provision for parking strangement 2007.5- sqm 3 583/34m to block block		2037.5	(Lis)	1019760.69		
5	Provision for Carriage of material	LS.		-200000-00	200000.00		
	Provision for traffic lighting and guide map/ indicators	LS.		200066:30	200000.00		L
		•	Total		7020313:00	168-7	9
	Add 3% contingencies G. PE Charle	7			887045.03	194.6	16
		1	Total		8439495:00 21.68	000	78
- /	Add 49 % department charges , Danca Carca	SAY	77797		10,93 421 V1	Lacs 25	9

For Shivnandan Buildtech Pvt. Ltd.

ARCHITECI RAJESH JAIN 6A/91/13678

REVISED PROPOSED BUILDING PLAN OF GROUP HOUSING SCHEME AREA MEASURING 13.32 ACRE AT SECTOR-99, GURGAON MANESAR URBAN COMPLEX, HARYANA

	Sub Work V				Street Lighting	
5. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
1	Supply, installation, testing and commissioning of Street Lighting GI Poles, Light Fixtures, Feeder Pillars, Cables & Wires including cable end terminations and Earthing Station etc. for Street Lighting on water as Pref. Handald	per acre	13.320	2.5000-		
	Checking of HUPN WITH CIT			The same of the same	99900-	-
	Add 3% contingencies \$1, PE chaste,				29989:60	
	74 ( 7 ( 7 ( 7 ( 7 ( 7 ( 7 ( 7 ( 7 ( 7 (				3429900	-
lui-	Total				4671960.00	
					1680651	_
110	Add 49% Deptt. Charges , 2714 esculo	morns.	andorsem		672200.4	
					5/10551	_
	Adun chal	(6)	Total	1.2	2044329.00	
		SAY			20.44-	Lacs
					51-15	0

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For Shivnandan Buildtech Fvt. Ltd.

Director

ARCHITECT RAJESH JAIN EA/91/13678

	Sub Work VI				Horticulture	
. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
1	Development of lawn area					
	a) Trenching the ordinary soil upto depth of 60 cm.Including removal & packing of serviceable material & disposing at a lead of 50 M and making up the trenched area to prope level by filling with earth mixed with manure befor & after flodding trench with water including cost of imported earth & manure.					
	b) Rough dressing of trenched area.					
	<ul> <li>c) Grassing including watering &amp; maintenance of lawns free from weeds &amp; fit for mowing in rows including hedges, shrubs &amp; green belts (as per HUDA Norms)</li> </ul>					
	19459.82 Spm or 4180 10	27	4.80	1.50	7.2010	14
	13.32 acros @ Rs. 0.90 lacs.	per acre	_16:320·	_26000.00	_1,198,800-	1
	550 tracs @ Rc. 750/ each		550.90	750,00	412,500	2.60 19
	E. PE		Lov	1300]	1611300.30	9.80 0
	Add 3% contingency charges	-			-48320.00	
				Total	1659639:00	0.29
	Add 49% Deptt. Charges, paris escalabi	m			813223.41	10.09 6
	anjoyey Bolan			Total	2472362.11	4.951R
	0		say		24.73	A CONTRACTOR OF THE PARTY OF TH
					*	12.04

e.o. A dink asstract of cost.

For Shivnandan Buildtech Pvt. Ltd.

Director

ARCHITECT RAJESH JAIN EA/91/13678

cost details

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(11) monnier & 90 m (111) Presplant & 150.00

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ichinen Architects Pvt. Ltd. Paradise Consultants

80	Sib Work VII				Maintenance Charges & Resurfacing of Roads	
. No	Description	Unit	Qty	Rate	Amount (Rs.)	
1	Provision for maintenance charges for water supply, sewerage, storm water draienage, roads, street light, horticulture etc. complete including operation & establishments charges as per HUDA norms after completion & resurfacing of roads after 10 years or 1st phase.			7.50		las
	13-32 acres-@.5 lacs per acre	per acre	13.320	500090.00	6960000	
2	Provision for resurfacing & strengthening of road after five years of 1st phase 12366 sqm @ 2594-per sqm	Sq. mtr.	12366	600∫ -250.00	74.2u 3091509.00	
3	Provision for resurfacing & strengthening of road after ten years of 2 <sup>nd</sup> phase 12366 sqm @ 4257-per sqm	Sq. mtr.	12366	750	494520 1545759-00	92.75
					1469692	266
				Total	4125-250	- Qui
_	Annual III				44090	- 0.,
	Add 3% contingency & PE charges				200947.5	274
-		-	-	Total	14000181.5	1341
-	Add 40% Departmental sharmer   hard	1 1	-	Total		24.7424
-		Jahm	-	Total	17337890.59	
-	ungerseen, Aduin.		say	1000	470.98	-

For Shivnandan Buildtech Pvt. Ltd.

Director

ARCHITECT RAJESH JAIN CA/91/13678

E : ROAD	QUANTITY SHEET	<b>国产产业人员</b>		
AREA OF M	METALLED ROAD (A)		l Charles	
S.NO	FEROAD NO.	LENGTH	Worth **	TOYAL AREA
四省自	Virtual Control of the Control of th	(In Sq. Mt)		(ln Sq. Mt.)
1	1	17.025	6.000	102.150
2	2	17.025	6.000	102.150
3	3	129.148	7.000	904.036
4	4	3.715	6.000	22.290
5	5	68.972	6.000	413.832
6	6	14.800	6.000	88.800
7	7	144.431	7.000	1011.017
8	8	7.694	7.000	53.858
9	9	81.952	7.000	573.664
10	10	14.311	6.000	85.866
11	11	69.974	6.000	419.844
12	12	0.995	6.000	5.970
13	° 13	13.354	6.000	80,124
14	14	2.984	6.000	17.904
15	15	13.354	6.000	80.124
16	16	7.076	6.000	42.456
17	17	28.848	6.000	173.088
18	18	10.892	6.000	65.352
19	19	39.613	6.000	237.678
20	20	11.839	6.000	71.034
21	21	84.865	7.000	594.055
22	22	6.930	7.000	48.510
23	23	21.154	7.000	148.078
24	24	9.159	7.000	64.113
25	25	70.447	6.000	422.682
26	26	6.192	5.000	30.960
27	27	61.285	5.000	306,425
28	28	16.289	5.000	81.445
29	29	2.069	5.000	10.345
00	30	7.912	5.000	39.560
11	31	1.570	5.000	7.850
2	32	17.182	5.000	85.910
3	33	2.493	5.000	12.465
		TOTAL 971-50 F		6403.635
	ADD 10	% FOR CURVES 97.15	Acceptation to the second	640.364
-	TO	7043.999 SQM		

ichinen Architects Pvt. Ltd. Paradise Consultants A PCHILLA RAJESTI CA/92/120 29 107 m Childre and all Bulletoch Pvi. Ltd.

Morcon Pvl. Ltd

Director



हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHRI VIKAS PRADHIKARAN Fax : 2564655

Website: www.hsvp.org.in Email : cencrhsvp@ gmail.com

Address: C-3, HSVP, HQ Sector-6

Panchkula

C.E.I-No. Dated:

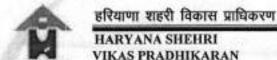
Annexure-A

Approval of Service plan estimate for Group Housing Colony measuring SUB:-13.32 acres (License No. 70 of 2011 dated 22.7.2011 & No. 82 of 2012 dated 27.8.2012) in Sec-99 Gurugram Manesar Urban Complex being developed by M/S. Shivnandan Buildtech Pvt. Ltd.

#### Technical note and comments:-

- 1. All detailed working drawings would have to be prepared by the colonizer 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.
- The material to be used shall the same specifications as are being adopted by 3. HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.
- 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.
- 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.
- 6. Structural design & drawings of all the structures, such as pump chamber, 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.

ser d



Fax : 2564655

Website : www.hsvp.org.in Email : cencrhsvp@ gmail.com

Address: C-3, HSVP, HQ Sector-6

Panchkula

C.E. No:

Dated:

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

- Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.
- 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.
- 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.
- 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.
- 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 will be as per relevant standards.
- This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.

Superintending Engineer (HQ), For Chief Engineer-II, HSVP,

Panchkula.

5/3/10

an-

/ FAOF	ARD PAVED	(For Fire T	ender Movement) (B)	
	- ROAD NO.	LENGTH	WOTH	TOTAL AREA
医第9-1		(In Meter)	(in Meter)	(In Sq. Mil.)
1	A	142.214	6.000	853.284
2	В	4.488	8.000	26 928
3	С	15.124	6.000	90.744
4	D	117.870	5.000	707.220
5	E	2.539	6.000	15.234
6	F	9.823	6.000	58.938
7	G	19.552	6.000	117.312
8	н	11.789	6.000	70.734
9	J	25,428	6.090	152.568
10	к	16.222	6.000	97.332
11	L	34,314	8.000	205.884
12	M	16,222	6.000	97.332
13	N	29.886	6.000	179.316
14	р.	52.210	6.000	313,260
		2986,086		
	ADD 1	0% FOR CURVES		298.609
		TOTAL HARD PAVED AREA	(B)	3284.695 SQM

AREA UNDER CAR PARKING (C)

NO. OF CARS ON SURFACE = 163 No.

AREA UNDER CAR PARKING = 5 x 2.5 x 163 = 2037.50 SQM

TOTAL AREA UNDER CAR PARKING (C)

2037.50 SQM

TOTAL AREA OF ROADS = A+B+C

= 7043.999 + 3284.695 + 2037.50 = 12366.194 SQM Say 12366 SQM

For Shivnandan Buildtech Pvt. Ltd.

Director

ARCHITECT RAJESH JAIN EA/91/13678