# M153MV7 353M165 531MV15

Total area of site = 17.55 acre (Estmale preform)

Part area developed (-) 6.80 acre (Estmale preform)

For future = 10.75 acre.

#### PROJECT REPORT / ESTIMATE

FOR PROVIDING INTERNAL SERVICES e.g. WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE



#### REPORT

Gurgaon town of Haryana State is situated on Delhi - Jaipur National Highway No.8 at a distance of 30 kms from Delhi. Being in the National Capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Government to establish various residential Sectors along with infrastructure facilities in Gurgaon. At present the colonizer is developing only 6.80 acres of the total licenced area. The balance area has been left for "FUTURE DEVELOPMENT" and will be developed in near future by the colonizer. This project report consists of developing a GROUP HOUSING COLONY MEASURING 6.80 ACRES OUT OF THE TOTAL 17.55 ACRES (LICENCE N0-16 OF 2008 DATED 31/01/2008) IN SECTOR-59, GURGAON.

#### WATER SUPPLY

At present the source of water supply in this area is bore well and connection form HUDA water main. As the underground water is potable, provision for One numbers of bore - wells have been made in this estimate. It has been proposed to construct underground tanks of capacity as per attached details for domestic purpose. The underground tanks will be filled up from the proposed bore wells or HUDA riser and the water will be pumped to the tank proposed on the roof of the buildings. Since the complex is totally air conditioned water requirement for air conditioning based ISHRAE recommendation also has been included.

#### **DESIGN**

The scheme has been designed for population as given in attached sheets.

#### **PUMPING EQUIPMENTS**

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

#### **SEWERAGE SCHEME**

This scheme is designed for sewer connecting to the HUDA sewer passing in front of site on the 45.00 Mts. Wide Sector Dividing Road. The sewerage system has been marked on the respective plans. The sewer lines have been designed for three items average D .W .F .in relation to water supply demand. It has been assumed that about 75% to 80% of the domestic water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft / sec self cleaning velocity. Necessary provision for laying S W / RCC pipe sewer line, construction of required number of manholes etc have been made in the estimate.

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

#### STROM WATER DRAINAGE

It is proposed to lay underground RCC pipe drains for disposal of storm water. Since the Ground water table is very high in this zone, no catch basins or Rain Water Harvesting pits have been proposed. The intensity of rain fall has been taken as 1/4" per hour. A minimum size of 400 mm RCC storm water line will be provided and designed as per Manning's formula.

#### **SPECIFICATIONS**

The work will be carried out in according with the standard specification of P.H as laid down by the Haryana Govt. / HUDA.

#### ROADS

Cost of road has been taken in the estimate.

#### STREET LIGHTING

Provision for lighting on surrounding area has been made.

#### HORTICULTURE

Estimate and details of plantation, Landscaping, Signage etc has been included.

#### RATES

The estimate has been based on the present marked rates.

COST

The total cost of the scheme, including cost of all services work out be **Rs.1400.40 lacs** including 3% contingencies @ 49% departmental charges price escalation, unformed Admn. Charges.

For

M/s BASE EXPORTS PVT. LTD.

**Authorized Signatory** 



#### I. DESIGN CALCULATION

	Dorsons Per Flat		Total Persons	
Category		-	1800	
Main D.U.'s	360	.5	1800	
Service Personal	58	2	116	
EWS @ 15%	65	5	325	
EVV3 @ 1370		Total Persons	2241	
	Category Main D.U.'s	Category Number of Flats  Main D.U.'s 360  Service Personal 58	Category       76         Main D.U.'s       360         Service Personal       58         EWS @ 15%       65	

WATER REQUIRMENT

2241 Persons @ 172.5 Litres

386.57 KLD

#### II. FOR COMMUNITY SITES

(0)	Commercial 78.85 Sq.mt or 0.019 acres @ 25 KL/Acres	=	0.48 KLD	
(a)	Commercial 76.65 squite of order	e. Luki	20.00 KLD	
(b)	Community Building (-) 4242.85 Sq m for	douglebment	25	1.12
(c)	Community Building  For Horticulture purpose 10652.85 Sq.mt or 2.63 Acres	alexample	40	412
1-1	= Eulo All of Lea CTD	_	65 75 KID	- 2

@ 25 KLD per acres to be met out treated water From STP 65.75 KLD 472.80 KLD 452.65 Total Requirement for Sr. No I and II 236.40 KLD 226.62 U.G.T Capacity (Half day Storage) 200.00 KLD = 436.40-KLD 426.025

For Fire Fighting U.G.T (Capacity)

SAY = 269.70 415 292.50 KLD

III. Requirement of Domestic Water = 450 KLD @ 65%

**SAY 300 KLD** 157.5-KLD 124.50

450.00 KLD

IV. Requirement of Flushing Water = 450 KLD @ 35%

SAY 150 KLD

#### **BOREWELLS** 1.

Approx. discharge of bore wells @ 18 KL/Hr. and working 10 hrs/ day.

450 = 300 KLD. a) Total Water Demand

b) Number of bore wells - 300/10/18 = 1.66 Nos. = 0.16 Nos.

c) Add 10 % as standby = 1.82 Nos.Total

Say 2.0 Nos.

Since the entire water to the proposed development is to be supplied by HUDA from the canal filtration scheme, it is proposed to install one number of borewell to meet the present demand.

#### PUMPING MACHINERY FOR BOREWELLS: 2.

= 104.00 Mts. a) Gross working head 2.00 Mts. b) Average fall in S.L. 6.00 Mts. c) Depression head 3.00 Mts. d) Friction Loss in main

= 115.00 Mts.Total

 $HP = 18000 \times 115 \times 1 / (60 \times 60 \times 75 \times 0.6) = 12.77$ Say 15.00 HP

#### 3. UNDERGROUND TANKS:

a) Daily demand (Domestic) @ 65% = 300 KLD

b) ½ Daily demand = 300/2 = 150 KLD

Therefore it is proposed to construct underground tank of 150 KL each in two compartments for domestic use, 75 KL raw & 75 KL treated water and 200 KL for firefighting purpose.

#### TOTAL = 350 KL

4.	PUMPS FOR DOMESTIC WATER SUPPLY		
Les	Potable Water Requirement Per Day	300	KL
ii	Pumping Duration Per Day	8	Hrs
iii	Suction Lift	4	Mts
iv	Clear Head Required	104	Mts
V	Residual Head	0	Mts
vi	Friction Head Loss	10	Mts
vii	Total head required	126	Mts
viii	Discharge of Pump 300/8=37.5cum/ h=625 lpm Say 650 lpm	650	LPM
		30.33	HP
ix	Power Required (Lpm x head(m)/4500 x .60 (effi.)	00.00	
	SAY It is proposed to provide 2 No. Pumps (1 Working & 1 Stan	30.00	HP 0 HP each
5.	SAY It is proposed to provide 2 No. Pumps (1 Working & 1 Stan PUMPS FOR FLUSHING WATER SUPPLY	30.00 d by) of 30.0	0 HP eacl
5. i	SAY  It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day	30.00 d by) of 30.0	0 HP eacl
5. i	SAY It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY Flushing Water Requirement Per Day  Pumping Duration Per Day	30.00 d by) of 30.0	KL Hrs
5. i ii iii	SAY It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day  Pumping Duration Per Day  Suction Lift	30.00 d by) of 30.0 150 8 4	0 HP eacl
5. i	SAY  It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day  Pumping Duration Per Day  Suction Lift  Clear Head Required	30.00 d by) of 30.0	KL Hrs Mts
5. i ii iii iv	SAY It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day  Pumping Duration Per Day  Suction Lift	30.00 d by) of 30.0 150 8 4 104	KL Hrs Mts
5. i ii iii iv v	SAY  It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day  Pumping Duration Per Day  Suction Lift  Clear Head Required  Residual Head	30.00 d by) of 30.0 8 4 104 0	KL Hrs Mts Mts Mts
5. i ii iii iv v	SAY  It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day  Pumping Duration Per Day  Suction Lift  Clear Head Required  Residual Head  Friction Head Loss	30.00 d by) of 30.0 150 8 4 104 0 10	KL Hrs Mts Mts Mts Mts
5. i ii iii iv v vi vii	SAY  It is proposed to provide 2 No. Pumps (1 Working & 1 Stan  PUMPS FOR FLUSHING WATER SUPPLY  Flushing Water Requirement Per Day  Pumping Duration Per Day  Suction Lift  Clear Head Required  Residual Head  Friction Head Loss  Total head required	30.00 d by) of 30.00 150 8 4 104 0 10 126	KL Hrs Mts Mts Mts Mts Mts Mts

6.	PUMPS FOR FIRE PROTECTION				
	Parameters	LOCATION	Jockey	Main/Sprinkler	Diesel
a)	Discharge in lpm	PUMP ROOM	180	2850	2850
b)	Head in Mtrs.	PUMP ROOM	126	126	126
c)	HP	PUMP ROOM	10	100 156	100150
d)	Quantity in Nos.	PUMP ROOM	1	2	1

7.	CAPACITY OF DG SETS		20	
		Qty	HP	Total HP
a)	Borewell	1	15	15.00
b)	Fire Jockey	2	10	20.00
c)	Booster Pump (Domestic)	21	30	<b>6</b> 0.00
d)	Booster Pump (Flushing)	2-1	2017.50	35.00 20
e)	Lighting			15.00
-,		1.41.55 -	TOTAL	145.00 1
	100	40.746 ×1.50 =	CVB SAY	145.00

Requirement of 135 KVA capacity will be added in to the main D.G. set to provide stand by supply.

#### FINAL ABSTARCT OF COST

		Amount in Rs. 46
SUB WORK NO-I	WATER SUPPLY SCHEME	471.58 lacs
SUB WORK NO-II	SEWERAGE SCHEME	84.02 lacs
SUB WORK NO-III	STORM WATER SCHEME	53.50 lacs 49.69 lac
SUB WORK NO-IV	ROADS	255-42 166.45 les
SUB WORK NO-V	STREET LIGHTING	9.89 lacs 12.56 26.09 las
SUB WORK NO-VI	HORTICULTURE	-8.06 lacs 7.26 6.57 65
SUB WORK NO-VII	MAINTENANCE CHARGES FOR 10YEARS INCLUDING RESURFACING OF ROADS AFTER 1 <sup>ST</sup> 5 YEARS & 2 <sup>ND</sup> 5 YEAR OF	256.13 lacs 264.42 256.46 65
	MTC (AS PER HUDA NORMS)	896.57 Las. -1086.69 lacs 799.97 las
	Total	4086.69 lacs 799.97 (ag

799.97 896.57

Cost per Acres

= <del>1086.6</del>9 / 6.80 acres

= <del>159.80</del> Lacs Per Acre

117.64

For.

M/S BASE EXPORTS PVT.LTD.

Executive Engineer HUDA Division No. I GURGAON

**Authorized Signatory** 

Superintending Engineer HUDA, Circle II, Gurgaon Checked subject to comments in force and ag helter his. 13114

Dt. 1.414115 and notes attached with the estimate

Executive Engineer (W) for Chief Engineer HUDA Panchkula

#### Sub Work No.-I

#### **Water Supply**

Sr. No.	Sub Head No.	Name of Work	Amount in Rs.
1.	Sub Head No.01	Head works	27.25 lacs 32.32.35.62 lac
2.	Sub Head No.02	Pumping Machinery	52.00 lacs 58.50 52.56 65
3.	Sub Head No.03	Rising Main	4.36 lacs 6.36 2.59 las
4.	Sub Head No.04	Distribution System	10.55 lacs 14.52 16.67 las
5.	Sub Head No.05	Fire Ring Main	15.46 Lacs 17.46 18-08 Las
6.	Sub Head No.06	Irrigation	2.19 lacs 4.85 3.60 las
		Total	111.81 lacs 134.01 127.06 Le
		Add 3% contingencies & PH charges	3.35 lacs 4.02 3.87 6
-		Total	115.16 lacs 138.03 132.93
		Add 49% Departmental charges, price escalation, Unforeseen &	65.13
	2	Admin. Charges	-56.42 lacs -67.64 lacs
		TOTAL	56.42 lacs -67.64 lacs 198.9
		2 2 3	205.67 Laws.

c.o. to final abstract of cost



Sub Work No.-I Sub Head No. 01 Water Supply Head works

Sr. No.	Description Qty. / Rate / Unit	Amount in Rs.
1.	Boring and installing 510 mm i/d bore well with reverse rotary rig complete with pipe and strainer to a depth of about 100 meters-1 No. @\(\overline{3}\).00 lacs	7.60 Rs <del>5:00</del> Lacs
2.	Provision of rising mains, connecting bore wells with water main and bye pass arrangements:  150 mm   5 M @ 1400/- per mtr	6.24 Rs. 0.07-Lacs
3.	Providing boosting arrangement by pumps:	
a)	650 LPM @ 126 M Head,2 Nos. @ 2.50 lacs each (30HP)(Dom.)	Rs. 5.00 Lacs
b)	350 LPM @ 126 M Head,2 Nos. @ 4.50 lacs each (30HP)(Flus.)	Rs.4.00 Lacs
4.	Provision for carriage of materials (L.S.)	Rs. 1.00 Lacs
5.	Construction of U.G. Tanks  UGT capacity of 350 KI @ 3500/- / KL	Rs. <del>12.25</del> Lacs
6.	Provision for Bore well chamber 1800 x 1200 x 2000, 1 No.@ 1.00 Lakh each.	14.88 Rs. 1.00 Lacs
7.	Provision for construction of chowkidar hut for facilities for Mtc. Staff	Rs. <u>\$</u> .00 Lacs
	TOTAL	Rs. 27.25 Lacs

( C/O to Abstract of cost for Syb Work No. 1)



#### Sub work No.-I Sub Head No.2

#### Water supply & Fire Fighting Pumping Machinery

Sr. No.	Description Qty. / Rate / Unit	Amount in Rs
1.	Providing and installing electricity booster driven submersible pumping set capable of delivering water against a total head of	
	90 M complete with motor and other accessories- 1 No. @ Rs. 3,00,000/- Each	Rs. 3.00 Lacs
2.	Provision for Diesel Engine Generator set each for standby arrangements for Booster Pump complete with gear head arrangements of following capacities.	
	1 No. 135 KVA	Rs. 16,00 Lacs
3.	Providing and installing Fire pumping set of following capacities for fire protection:-	
	-180 lpm at 126 M head 1 No. Jockey Pump @ Rs. 2,00,000/- (10 HP)	Rs. 2.00 Lacs
	-2850 lpm at 60 M head 1 No. main fire pump @ Rs. 10,00,000/-(100 HP)	7.50 Rs. <del>10.00</del> Lac
7.5	-2850 lpm at 60 M head 1 No. Sprinkler Pump @ Rs. 10,00,000/- (100 HP)	Rs. 10.00 Lace
10.0	-2850 lpm at 60 M head 1 No. Diesel Engine Pump @ Rs. 7,50,000/- (1,00 HP)	16.6 Rs. <del>-7.50</del> Lacs
4.	Provision for chlorination plant complete -1 No @ Rs.1,00,000/- (L.S.)	Rs. 1.00 Lacs
5.	Provision for making foundations and erection of Pumping machinery. (L.S.)	Rs. 2.00 Lacs
6.	Provision for pipes, valves and specials inside boosting Chamber (L.S.)	Rs. 2.00 Lacs
7.	Provision for electric service connection including electrical fitting for bore-well and boosting chamber etc. (L.S.)	5.00 Rs. <del>3.50</del> Lacs
8.	Provision for carriage of material and other unforeseen Items etc. (L.S.)	Rs. 1.00 Lacs
	TOTAL	Rs. <del>52.00</del> Lac

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



#### Sub Work No.-I Sub Head No. 03

#### **Water Supply HUDA Rising main**

Sr.	Description Qty. / Rate / Unit	Amount in Rs.
No.		
1.	Providing, laying, jointing and testing pipe lines including cost of fittings, valves, connections etc. Complete in all respects.  C.I./D.I. Pipe 100 mm i/d =70 mtr. @ Rs. 1200/- Per Mtr.	6.88 Rs. 0.84-Lacs
2.	Providing and fixing of sluice valves with haudies. Complete in all respects.  100 mm dia = 2 Nos. @ Rs. 15,000/- each	6.24 Rs. <del>0.30</del> Lacs
3.	Providing and fixing indicating plates for sluice valves – 2 Nos. @ Rs. 1000/- each	Rs. 0.02 Lacs
4.	Providing and fixing air release and scour valves – 2 Nos. @ Rs. 10000/- each	Rs. 0.20 Lacs
5.	Provision for carriage of materials and other unforeseen items	Rs. 1.00 Lacs
6.	Provision for cutting of roads & making good to its original condition.	+ 00 0 ⋅ 50 Rs. 0.50 Lacs
7.	Provision for making connection with HUDA line (L/S)	Rs. 3.50 Lacs
	TOTAL	Rs. 4.36 Lacs

6.36 laes. 2.59

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



#### Sub work No.-I Sub Head No.04

## Water supply Distribution System (Domestic & Flushing)

Sr. No.	Description Qty. / Rate / Unit	Amount in Rs.
	Providing, laying, jointing and testing of C.I./ D.I. pipe lines	
	including cost of fitting valves & excavation complete in all	
	respects.	
	DOMESTIC: 1575	
	150 mm dia =8 mtr. @ Rs. 1500/- Per Mtr.	Rs. 0.12 Lacs_
	100 mm dia = 49 mtr. @ Rs. 1250/- Per Mtr.	Rs. <del>0.61</del> Lacs
	80 mm dia = 152 mtr. @ Rs. /800/- Per Mtr.	-Rs. 1.52 Lacs
-	65 mm dia = 363 mtr. @ Rs. <b>6</b> 50/- Per Mtr.	Rs. 1.99 Lacs
	FLUSHING:	3.09
	150 mm dia = 4 mtr. @ Rs. 4500/- Per Mtr.	Rs. 0.06 Lacs
1	100 mm dia = 195mtr. @ Rs. 1250/- Per Mtr.	Rs. 2.44 Lacs 7
	80 mm dia = 60 mtr. @ Rs.   600/- Per Mtr.	Rs. 0.48 Lacs
	50 mm dia = 308 mtr. @ Rs. 900/- Per Mtr.	Rs. 1.23 Lacs
	Rising main from HUDA to UGT	1.54
	100 mm dia = 70 Mtr. @ Rs. <del>1000</del> /- Per Mtr.	Rs. 0.70 Lacs
2.	Providing & fixing of sluice valve including chamber etc.	6.88
	complete in all respects.	
- 1	150 mm dia = 2 No. Dom. & Flush. & 1 No. Rising Main =	
1	3 Nos. @ Rs. 15,000/- Each	Rs. 0.45 Lacs
1	100 mm dia (Dom. & Flush. Line) = 2 No. @ Rs. 16000/- Each	Rs. 0.30 Lacs
3.	Providing and fixing indicating plates for sluice valve and air	
	valves etc. 5 Nos. @ Rs. 1000/- Each	Rs 0.05 Lacs
4.	Provision for carriage for materials and other unforeseen items.	0.50
	(L.S.)	Rs. 4.00 Lacs
	TOTAL	Rs. 10.55 Lacs
5.	prov. for load cutting of making its =	Rs. 2-00/20
	oxiguel Condition (L:s)	1.5. & COUNCY

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

14.52 Lack

16.67



	DOMESTIC	WATER	MATERIAL ST	TATEMENT	
SI. No.	Name Of Line	LENGTH OF PIPE IN MTRS			RS Ion
		150 MM	100 MM	80 MM	65 MM
1	UGT-A	8.00	4		
2	A-B				36.00
3	A-C		49.00		15
4	C-D		L 1	60.00	
5	D-D'				8.00
6	D-E				102.00
7	C-F			92.00	
8	F-F'		V 6. 5	2	27.00
9	F-G	•			190.00
	TOTAL	8.00	49.00	152.00	363.00
	GRAND T	OTAL	572.00		

	FLUSHIN	IG WATER N	MATERIAL S	TATEMENT	
SI. No.	Name Of Line	L	ENGTH OF	PIPE IN MT	RS.
17.		150 MM	100 MM	-80 MM	50 MM
1	STP-a	4			<u> </u>
2	a-a'		4 J. 16		88
3	a-b		101		
4	b-b'				26
5	b-c		94		
6	c-c'				84
7	c-d			60	
8	d-d'			_	7
9	d-e				103
	TOTAL	4	195	60	308
	GRAND	TOTAL	567		

Dom + Flushing

Total 150 mm 100 mm

8+4=12 ml 572+567=1139 mh

Say 1140 mh

Say 13 | hage

#### Sub Work No.-I **Sub Head No.05**

**Water Supply Fire Fighting** 

Sr. No.	Description Qty. / Rate / Unit	Amount in Rs.
1.	Providing, laying, jointing and testing MS pipe lines including fittings, cost of excavation etc. complete in all respects.  150 mm i/d =908 mtr. @ Rs. 1000/- Per Mtr.	14.3° Rs. 9 <del>.08</del> Lacs
2.	Providing and fixing Valve including cost of surface boxes and masonry chambers etc. complete in all respect.  150 mm dia = 28 Nos. @ Rs. 10000 each	6.50 Rs. <del>2.8</del> 0 Lacs
3.	Providing and fixing fire hydrants with accessories 28 Nos. @ 10000 each	Rs. 2.60 Lacs
4.	Provision for carriage of materials and other unforeseen items	Rs. 0.50 Lacs
5.	Provision for indicating plate- 28 Nos. @ 1000/- each	Rs. 0.28 Lacs
-	TOTAL	Rs.15.46 Lacs
6.	Prov. for load cutting and making its original. R	s. 200 lacs

6. Prov. for load cutting and mating its original. Rs.

18-08

17.46 lac.

S. No.	Name of Line	Dia of Pipe	Length in Mts.
1	UGT-A	150	8
2	А-В	150	38
3	B-C	150	176
4	C-D	150	140
5	D-E	150	177
6	E-B	150	59
7	E-F	150	60
8	F-G	150	81
9	G-H	150	107
10	H-A	150	62
		TOTAL	908



#### Sub Work No.-I Sub Head No.06

#### Water Supply Irrigation

Sr. No.	Description Qty. / Rate / Unit	Amount in Rs.
1.	Providing, laying, jointing and testing pipe line Confirming to IS 4985 (UPVC / HDPE) including cost of excavation etc. complete in all respects. Garden hydrant line 50/40/32/25 mm (L.S.)	2.50 Rs. <del>0.5</del> 0 Lacs
2.	Providing and fixing 25mm dia. irrigation hydrant Valve complete in all respect.  25 mm dia = 15 Nos. @ Rs. 3500 each	Rs.0.53 Lacs
3.	Provision for Garden Hydrant- 32 Nos. @ 500/- each	Rs. 0.16 Lacs o.
3.	Provision for cutting of roads & making good to its original condition.	+ 60 Rs. 0.50 Lacs
4.	Provision for carriage of materials and other unforeseen items	Rs. 0.50 Lacs ••
	TOTAL	Rs. 2.19 Lacs

485 3.60

S. No.	Name of Line	Dia of Pipe	Length in Mts.	
1	STP-a	50	4	
2	a-b	40	144	
3	b-c	32	19	
4	c-d	25	40	
5	d-e	25	66	
6	e-f	25	67	
7	f-g	25	66	
8	g-c	25	27	
9	b-h	32	63	
10	h-i	25	100	
11	i-j	25	60	
12	j-k	32	55	
13	k-a	40	62	
		TOTAL	773	

50mm = 4 mtr. 40 mm = 14462=206A 32 mm = 19+63+55=137 25mm = 40+66+67+6 27+100+67 = 426M.

50 MM = 4 Mtr. @ Rs. 600 | P. mtr. = 2400 | 40 mm = 206 mtr. @ Rs. 450 | P. mtr. = 92700 | -32 mm = 137 Mtr. @ Rs. 350 | P. mtr. = 47950 | 25 mm. = 426 mtr. @ Rs 250 | P. mtr. = 106500 | 249550

çay Rs. 2. solaes.

2 15 | Page

#### Sub Work No.-II

#### **Sewerage Scheme**

S. No.	Description Qty. / Rate / Unit	Amount in Rs.
1	Providing, jointing, Cutting and testing SW pipe class "A" and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc.	
	200 mm i/d = 510 Mts (0.0 to 3.0 Mts.) @ Rs.1500/- Per Mtr.	6.36 Rs. <del>7.65</del> Lacs
2.	Provision for carriage of materials and other unforeseen items (L.S.)	Rs. 0.50 Lacs
3.	Provision for lighting and watching (L.S.)	Rs. 0.50 Lacs
4.	Provision for cutting of roads & making good to its in Original condition (L.S)	8s. 1.00 Lacs
5.	Provision for making connection with HUDA Line (L.S)	Rs. 3.00-Lacs
6.	Provision for construction of Sewerage Treatment Plant of capacity of 400 KLD including machinery complete in all respects. (Reatment Level Shall be textient (L.S.)	50.00 Rs. 40.00 Lacs
7.	Provision for timbering & shoring (L.S.)	Rs. 0.50 Lacs
8.	Providing and laying 150 mm dia CI/DI rising main from STP to HUDA sewer line- 130 mts @ 2000/- Per Mtr.	Rs. 2.60 Lacs
9.	Provision for vent pipe as per P.H. requirement. (L.S.)	Rs. 1.00 Lacs
	TOTAL	Rs. 54.75 Lacs
	Add 3% Contingencies	Rs. 1,64 Lacs
	P.E. Charles TOTAL	Rs. <del>56.39</del> Lacs
	Add 49 % Departmental charges, price escalation, Unforeseen & Admin. Charges	Rs. 27.63 Lacs
76	TOTAL	Rs. 84.02Lacs

#### CARRIED OVER TO FINAL ABSTRACT OF COST

SI. No.	Name Of Line	Size of Pipe in mm	Length of Line in Mts
1	S1-S2	200	62
2	S2-S3	200	75
3	S3-S4	200	50
4	S4'-S4	200	59
5	S4-S5	200	180
6	S5'-S5	200	79
7	S5-STP	200	5
-1		TOTAL	510 mh
8	STP-OUT	150 CT/OF	130



#### **Sub Work No.III**

#### Storm water Scheme

S. No.	Description Qty. / Rate / Unit	Amount in Rs.	
1	Providing and laying R.C.C. pipe class NP-3 with cement joint, manholes excavation etc complete in all respects.	Lette.	
a)	RCC pipe 400 mm i/d avg. depth 0-4 M = 915 Mts @ 1750/- Per Mtr.	Rs. <del>26.37</del> Lacs	
2.	Provision for construction of Double Road Gullies with 2500 mm i/d RCC pipe connecting with manholes complete in all respects. 915/20=45.75 Say 46 Nos. 3000 (L.S.)	22.88 Rs. 2. <b>5</b> 0 Lacs	*
3. 3(a)	Provision for carriage of materials and other unforeseen items from for const. of Ruin water Harveting bit 7000)	Rs. <b>5.5</b> 0 Lacs	Seven No.
4.	Provision for lighting and watching (L.S.)	Rs. 0.90 Lacs	
5.	Provision for making connection with HUDA Line (L.S)	Rs. 2.50 Lacs	
6.	Provision for cutting of roads & making good to its in Original condition (L.S)	Rs. 1.00 Lacs	f.
7.	Provision for timbering and Shoring (L.S.)  TOTAL	Rs. 34.87 Lacs	31.80
	Add 3% Contingencies	Rs. 104 Lacs	0.95
	PE-chayes TOTAL	Rs. 35.91 Lacs	32.75
V	Add 49 % Departmental charges, price escalation, Unforeseen & Admin. Charges	Rs. <del>17.59</del> Lacs	48.80
	TOTAL	Rs. 53.50 Lacs	4000

#### CARRIED OVER TO FINAL ABSTRACT OF COST

SI. No.	Name Of Line	Size of Pipe in mm	Length of Line in Mts
31. 110.	Nume of Line	Size of Fipe in film	Length Of Line III Wits
1	A1-A2	400	81
2	A2-A5	400	103
3	A3-A4	400	91
4	A4-A5	400	93
5	A5-OUT	400	12
6	A6-A7	400	165
7	A7-A10	400	139
8	A8-A9	400	70
9	A9-A10	400	149
10	A10-OUT	400	12
×	Na in	TOTAL	915



#### Sub - work No IV

#### **Road Work**

Sr. No.	Description Unit / Qty / Rate	Amount in Lacs.	1
	Provision for leveling & each filling as per site conditions 6.54 6.	80 8.50	las
1.	acres (50 % of total site area) @ Rs. 1,00,000/- /25000/-	Rs. 6.54 Lacs	
	Construction of roads by providing Granular sub base 300 mm as	S	
2 (i)	per MORT & H specification conforming to clause 401 grading B		
2 (1)	400.1		
	Providing, Laying, spreading & compacting hand broken/ crushed	b	
	stone aggregate to wet mix macadam conforming to physical	Y.	
	requirement laid in 250 mm stone aggregate MORT & H		
(ii)	specification in two layers (compacted to 250 mm (125+125) by		
	taking material 1.32 times of the (thickness of the layer) including	g	
	per mixing of material with water in mechanical mixer.		
(iii)	50 mm thick BM		
(111)	20 mm thick mix seal surfacing SDBC	Rs. 114.07 Lacs ]	2-6
(iv) 64	33420 Sqm. @ Rs. 850/- 1000 Sgm	Rs114.07 Lacs	3.4
(4)	Provision for kerbs and Channels of CC (1:2:4) on both sides of		
3.	road. 2(827+255 +10%)	14.28	
2380	100.0.	Rs. 10.91 Lacs	
	Provision for making approach to each block and pavement.	10.00 /00	٥.
4.	(L.S.)	Rs. <del>1.50</del> Lacs	6
	Provision for Guide Map & other unforeseen items.	7.60	
5.	(L.S.)	Rs. 1.00 Lacs	
	Provision for carriage of material & all other unforeseen items		
6.	(L.S.)	Rs. 1.00 Lacs	
7.	Provision for Traffic light Arrangement (L.S.)	Rs. 2.50 Lacs	
	TOT	1-87 11/	166
	Add 3% Contingenc		4
	P.E. Charsfey TOT	AL Rs. 141.64 Lacs	171
	Add 49 % Departmental charges, price escalation, Unforeseen	n & 111:77	-81
	Add 45 % Bopartmontal only got, production Admin. Charge	ges Rs. 165.58 Lacs	25
	TOT	AL Rs. 503.51 Lacs	-
		166.45	4

CARRIED OVER TO FINAL ABSTRACT OF COST



### Hard green grad Speci:

HSR 10.29 C.C. 1:8:16 with stone arrupate 20 mm movimed size in Sundahim & Plinth

HSR. 10-132 C.C. 1:2:4 with stone assegate 20 mm nominal Jize in Remond, stad, TAXI Track and run way laid to repuised slope and camber including Consoledation Goodhing and Eamping conflete

Taking 10 mb Length

118:16 10×6×0.05 = 3.60 Cum @ \$ 336.25 \$ 1008.75 1:2:4 10×6×0.075 = 4.50 cum et 729.30 \$ 3281.85 (3) Add 450% C. Premium. R 19307.70 23598.30

Tate Per ond = 23598.30/10 = 2359.83

say 2360/-ml

Less sh of road 2 519 00 +10 1/2 curres 2 571000d

S71 ont C 55 2360 /2 \$ 13.4869

<b>ESTIMATE FOR GROUP HOUSING</b>	COLONY MEASURING 17.55 ACRES, SEC-59,
GURGAON BY M	/s BASE EXPORTS PVT. LTD.

MATERIAL STATEMENT FOR ROADS						
NAME OF	CO-		LENGTH IN		WIDTH IN	AREA IN SQ.
ROAD	EFF.		MTS.		MTS.	MTS.
1	1	X	35.00	X	5.00	175.00
2	1	X	21.00	X	5.00	105.00
3	1	Х	<b>4\$</b> .00	X	5.00	205.00
4	1	Х	80.00	X	5.00	400.00
5	1	Х	14.00	X	9.00	126.00
6	0.5	X	62.00	X	7.00	217.00
7	1	X	70.00	X	6.00	420.00
8	1	Х	127.00	X.	5.00	635.00
9	1	Х	14.00	X	5.00	70.00
10	1	Х	27.00	X	5.00	135.00
11	1	Х	11.00	X	5.00	55.00
12	1	X	13.00	X	5.00	65.00
13	1	Х	62.00	X	5.00	310.00
14	1	X	51.00	X	5.00	255.00
15	1	X	27.00	X	5.00	135.00
16	1	Х	12.00	Х	5.00	60.00
17	1	X	83.00	Х	6.00	498.00
18	1	X	12.00	Х	9.00	108.00
19	1	X	17.00	X	5.00	85.00
20	1	X	18.00	Х	5.00	90.00
21	1	Х	16.00	Х	5.00	80.00
22	1	X	14.00	Х	6.00	84.00
TOTAL			827.00			4313.00 4

12 m Wide Service road 255	250	1402.50 AW +107	_	LATO SAR
NAATEDIAL CTATEMAENT FOR U	ADD CREEN	CO14 WK 02.812		0010 27.

1200	Him se	sau s	000 253		2.70	1 1 0 -
	MA	TERIA	AL STATEMENT FO	R HA	ARD GREEN	2218.20
NAME OF ROAD	CO- EFF.		LENGTH IN MTS.		WIDTH IN MTS.	AREA IN SQ. MTS.
a	1	X	44.00	Х	6.00	264.00
b	1	X	42.00	X	6.00	252.00
C	1	X	44.00	X	6.00	264.00
d	1	X	44.00	Х	6.00	264.00
е	1	X	42.00	X	6.00	252.00
f	1	X	44.00	X	6.00	264.00
g	1	Х	40.00	Χ	6.00	240.00
h	1	Х	33.00	Χ	6.00	198.00
i	1	X	40.00	X	6.00	240.00
j	1	X	33.00	X	6.00	198.00
k	1	X	13.00	Χ	7.00	91.00
I	1	X	56.00	Χ	6.00	336.00
m	1	X	44.00	X	6.00	264.00
TOTAL			519.00 M			7887.00

Comparatory 28 x250 x500 = 350 5pm 30 28 x250 x500 = 350 = 6420 55m Total = 60 + 350 = 6420 55m

6470+3440= 9510-5mg.

19 | 1

Sub Work No V Sub Head no. 01

Street lighting Amount in Rs.

S.No.	DESCRIPTION	Amount in Rs.		
1.	Providing Street lighting on roads as per standard specification of DHVPN. WHACTION 2.50 (2.50 AC) 6.54 Acres (Complete) @ Rs. 1,00,000/- Per Acre	8.18 Rs. 6.54 Lacs 17.6		
	6.% Add 3% Contingencies K	Rs. 0.26 Lacs 0.51		
	P.E. Chayes TOTAL	Rs. 6.64 Lacs		
	Add 49 % Departmental charges, price escalation,	8.43		
	Unforeseen & Admin. Charges	Rs. 3.25 Lacs 8.58		
	TOTAL	Rs. 9.89 Lacs		

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Sub Work No VI

Horticulture

S. No.	Description	Amount in Rs.	
1.	Development of Lawn Area:-	N. A.	
a)	Trenching of ordinary soil up to depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and leveling within a lead of 50 M and marking up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure.  Green Area in total sites 10652-8	ez zsw	
	Cream orde in the CIR in Chila.	0-5	
b)	Rough Tressing of Turfed area. Part area Salatte 4242	35 Sim Mill pe	ban
c)	Grassing with "DOOB GRASS" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds	in futur ose	A
1.00	2.63 Acres @ Rs. 1,00,000/- 1.50 65	Rs. 2.63 Lacs	
	Provision of trees, Guards and planting trees along road at 12 M intervals.  Total Road Length = 2102 Mt 827 + 514 = 1346 MTK.  No. of Trees =2102/12 = 175.16 x 2 = 350.33 Nos.  Say 350 Nos.		
	Cost Details: 250		
2	Excavation = 30  Manure = 60  Tree Plant = 60		
25	TOTAL = 750 Rs. Per Tree  350 Trees @ Rs.750 - Per Tree	1.88 les -2.16 Rs. <del>2.62</del> Lacs	
	Total	Rs.5.25,Lacs/	4.7
	Add 3% Contingencies	4 Rs. 0.16 Lacs	0.1
	P.E. Charles TOTAL	Rs. 5.41 Lacs	4.8
1	Add 49 % Departmental charges, price escalation, Unforeseen & Admin. Charges	Rs. 2.65 Lacs	2.3
	TOTAL	Rs. 8.06 Lacs	7.2

CARRIED OVER TO FINAL ABSTRACT OF COST



#### Sub Work No VII

#### Maintenance of Services & Resurfacing of Roads

S. No.	Description	Amount in Rs.
1.	Providing of M/C charges for water supply, storm water drainage, Road, Street Lighting, Horticulture etc. complete in all respects, including Operational	
	and establishment charges as per HUDA norms for 10 Years completion.	34.00
6.80	_6.54 Acres @ 5.00 Acres	Rs. <del>32.7</del> 0 Lacs
2.	Providing of resurfacing of roads after 5 years 100	
	mm thick layer 100 mm thick BUSG complete to 25	
9860	mm thick premix carpet with seal cost.	93:06, clase
15510	33860 Sq. Mts. @ Rs. 400/- Per Sq. Mts.	93-96 lau Rs. <del>135.44</del> Lacs
3.	Providing of resurfacing of roads after 10 years with	
	25 mm thick premix carpet with seal cost with mech.	73.95
996	paver.	46.53
155	○33860 Sq. Mts. @ Rs. 600/- Per Sq. Mts.	Rs. 203.16 Lacs /67.11
	Total	Rs. 371.30 Lacs 1.72 6
37	Add 3% Contingencies	Rs. 11.14 Lacs
1	TOTAL	Rs. 382.44 Lacs 177.4
	Add 49 % Departmental charges, price escalation, Unforeseen & Admin. Charges	Rs. 187.40Lacs 19
	TOTAL	Rs. 569.84 Lacs 264.

CARRIED OVER TO FINAL ABSTRACT OF COST

Say Rs. 264.42 laes.

