EXTERNAL DEVELOPMENT WORKS DESIGN AND COST ESTIMATES

FOR

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

DEVELOPED BY:

M/S NAVI ESTATES, LLP NEW DELHI

For NAVI ESTATES LLP

Auth. Signatory

ARCHITECT
Registration No.
CA/2010/8323
KULDEP VERMA

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018) BEING DEVELPED BY M/S NAVI ESTATES, LLP, NEW DELHI

Gurgaon Manesar Urban Complex of Haryana State situated on N.H.- 8 Highway at a distance of 50 Kms from Delhi. Being the National Capital Region, the town has fast developing 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 Gurgaon Being Developed BY M/S NAVI ESTATES, LLP, NEW DELHI COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Boosting station/ HSVP Water Supply. It has been proposed to construct the under ground 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, which will feed overhead tanks on the roof of the buildings. The water supply system has been designed as per Hazen Williams formula.

DESIGN

The scheme has been designed for population of approx 3948 persons for Commercial Building. The rate of water supply per head / day has been taken as (Staff = 45 liters , Visitor = 15 liters , Restaurant = 70Litre) as per HSVP norms in addition to above necessary provision of water for club and parks etc. have been taken into account for calculating the maximum quantity of water requirement.

PUMPING REQUIREMENTS

For NAVI ESTATES LLP

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It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has also been provided in case of any electricity failure.

UNDERGROUND STORATE TANK

Underground storage tank provision has been made in two compartments, which cater for the domestic as well as for fire fighting requirement. The water for fire water compartment shall overflow to the domestic compartment so that the water in the fire compartment also remain full & fresh and wilil not contaminate.

BOOSTING STATION

The boosting station is being planned near underground storage tank catering to above requirement.

DISTRIBUTION SYSTEM

The distribution system for this development has been designed to supply @ (Staff = 45 liters, Visitor=15Litre, Restaurant = 70Litre) per head per day @ 3 times the average rate of flow on Hazen William formula. Necessary provisiton for laying CI/DI pipes confirming to relevant IS standard along with valves and special has been made in the project. THe minimumterminal head at any point will be more than 50 so that it can be serve the B+G + 11 floors construction envisaged in the plan. Minimum pipe dia. for distribuiton is kept as 100 mm dia.

RISING MAIN

Raising main from HSVP water main or sector road to water work have also been proposed as provision has been made in this estimate.

SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to HSVP sewer main. The sewerage system has been marked on respective plans.

The sewer lines have been designed for three times average D.W.F. in relation to water supply demand. It has been assumed that about 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 design statement for entire sewerage system has been prepared and attached with estimate. Manning's formula has been used for the design of sewerage system.

STORM WATER DRAINAGE

Since the Master Scheme has been proposed with pipe drain with rain water harvesting pit, we proposed to lay pipe drains with required number of catch basins for disposal of storm water to harvesting pit. The intensity of rain fall has been taken as 40 mm per hour. A minimum size of 400 mm dia pipe storm water pipe will be provided and designed as per Manning's formula.

For NAVI ESTATES LLP

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FIRE

As per N.B.C. (National Buiding Code), fire tanks & required capacity pumps have been provided the plan as shown on the plan. Similarlly irrigation pumps of required capacity provided as shown on the plan.

SPECIFICATIONS

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

ROADS

Cost of Road has been taken in the estimate.

STREETLIGHTING

Provision of lighting on surrounding area has been made.

HORTICULTURE

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

RATES

The estimate has been prepared based on the present market rates.

COST

The total cost of the scheme, including cost of all services works out to be Rs ~~264.89~~ 481.32 Lacs Including 3% contingencies and 49% departmental charges, price escalation & other unforseen charges. Cost of per Acres Rs ~~105.30~~ 183.36 Lacs.

M/S NAVI ESTATES, LLP NEW DELHI

(AUTHORIZED SIGNATORY)

For NAVI ESTATES LLP

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(I)	**DAILY WATER REQUIREMENT**			
1	Lower Ground & Ground Floor Floor (Shops) 2524.78 sqm @ 3 sqmt/ person	=	842	Persons
2	Shops at First & Second Floor 2052.76+2030.67 sqm @ 6 sqmt/ person	=	681	Persons
3	**Total Population**	=	**1522**	**Persons**
a)	Shopkeepers @ 10% of Population	=	152	Persons
	@ 45 LPCD	=	6849.7425	Liters/ Day
b)	Visitors @ 90% of Population	=	1370	Persons
	@ 15 LPCD	=	20549.2275	Liters/ Day
4	Food Court at Third floor			
	total area = 2138.17sqm @ 1.8 sqm per person	=	1188	person
	Visitors @ 90% of Population @ 35 LPCD	=	37417.98	Liters/ Day
	Restaurant staff @ 10 % of Population @ 45 LPCD	=	5345.43	Liters/ Day
5	Restaurant at Fourth floor & Fifth Floor			
	total area = 2138.17sqm+628.29sqm-(Audi=1078sqm)= 1688.46sqm @ 1.8 sqm per person	=	938	person
	Visitors @ 90% of Population @ 70 LPCD	=	59096.10	Liters/ Day
	Restaurant staff @ 10 % of Population @ 45 LPCD	=	4221.15	Liters/ Day
	Third Floor Audi (1,2,3,4) =115+100+80+150 Seats=445 Total seats@ 15 per seat	=	6675.00	Liters/ Day
6	SIXTH to 11th Floor (GUEST ROOM) (125 Room @ 2 person per room)		250.00	person
	Water Requiremant@135 LPCD	=	33750.00	Liters/ Day
7	Water required for Kitchen & Laundry - L.S.	=	10000	Liters/day
8	Maintenance staff	=	50	Persons
	@ 45 LPCD	=	2250	Liters/ Day
9	Back Wash Filters - L.S.	=	3000	Liters/day
	Total water demand	=	189154.63 ~~**182480**~~	or 189.15 **Liters/day**
	SAY	=	~~**182**~~ 190	**KLD**

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	Horticulture & Road Work			
a)	Area under Green area 1146.46 sqmt	=	1146.46	SQMM
	6.17		7073.65	
	@ ~~5~~ Ltrs./Sqmt	=	~~6879~~	Liters
b)	Area under road + Paved area =10179.87-(2503+1146.46)=6530.41	=	1.61404	Acres
	@ ~~25 K.L~~./Acre 5000 Ltr		8070.20	
	Total Water Demand	=	~~40351.03~~	Liters
	Say	=	15143.85 ~~47230~~	Liters
		=	**~~47500~~**	**Liters**
	The demand of horiculture & road work will met from recirculates water after treatment at S.T.P.		15150	
	Total water demand		189155	
		=	~~182480~~	Liters/day
	Say	=	189.15 ~~182.480~~	KLD
	Domestic water demand	=	190 ~~185~~	KLD
	60% of AV/WD of (A)		113492.78	
	Domestic water demand (KLD)	=	~~109488~~	Liters/day
	Or Say	=	~~109.49~~	KLD 113.49
	Flushing water demand	=	**110.00**	**KLD**
	40% of AV/WD			
	Flushing water demand (KLD)	=	75661.85 ~~72992~~	Liters/day
	Or Say	=	75.66 ~~72.99~~	KLD
		=	**~~73.00~~**	**KLD**
	Sewage Treatment Plant Capacity		76.0	
	Average Sewerage Contribution Considering 80% of AV domestic water demand & 100% of AV/Flushing demand	=	166456 ~~161000~~	Liter / Day
	Sewage Treatment Plant Capacity (KLD)	=	166.45 ~~161.00~~	KLD
	Or Say Add 5% for marginal Factor	=	**~~165.00~~**	**KLD** 8.32 174.77 lac
			Say 175 lac	
	Sewage scheme			
	Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	513500	Liters
		=	114111	GPD
		=	0.211	Cusces

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(I)	**BOOSTING STATION**		
	Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day		
(a)	Total domestic water demand = KLD	=	114.0 ~~110.00~~
(b)	Number of borewells 110/(18 x 16)	=	6.40 ~~0.38~~
	Add 10% extra	=	0.04
	Total	=	0.42
	Say	=	**1.00**
	So, it is proposed to provide **Two No. (1W+1S)** (One working & One standby)). Moreover, the water demand for horticulture purposes is to met from recirculated water after treatment at STP and ultimate water supply is to provided by HUDA.		

For NAVI ESTATES LLP

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ARCHITECT * KULDEP VERMA * Regd. No. CA/ 18323

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(I)		**Pumping Machinery for Boosting Station**			
		Gross working Head	=	50.0	Meters
		Average Fall in S.L.	=	5.0	Meters
		Depression Head	=	5.0	Meters
		Friction loss in main + Postive head	=	10.0	Meters
		Total	=	70.0	Meters
		Or Say	=	**70.0**	**Meters**
		Pump HP = 18000 x 70 x 100 / 60 x 60 x 75 x ~~70~~ 76	=	~~6.67~~ 7.78	H.P.
		Or Say	=	**7.50**	**H.P.**
		It is proposed to provide ~~2~~ 1 Nos. of 7.5HP moters 70 Mtr head (1 Working & ~~1~~ standby)			
(II)		**~~Plumbing Machinery~~ for Domestic & ~~Flushing Tank~~** Under Ground use		114.00	
	a)	Total Domestic Water Demand	=	~~110000~~	Liters
		Day Storage (Equal to ~~Half~~ Full day)	=	114 ~~55.00~~	KLD
		Or Say	=	**~~55.0~~**	KLD
		Fire Tank provided as per N.B.C. Norms	=	**290.00**	**KLD**
		Hence it is proposed to construct an underground tank of ~~70~~ 115 KLD having ~~35~~ 57 KLD for treated water, ~~95~~ KLD as raw water, and 290 KLD for fire fighting purpose as per location shown on plan i.e. Total ~~360~~ 405 K.L.D.			
(III)		**Boosting Machinery**			
	a)	For Under Ground Tank			
		Total water demand (Domestic)	=	114.0 ~~55.00~~	KLD
		L.P.M. for 6 hour pumping	=	~~152.78~~	LPM
		Or Say	=	**~~155.00~~**	**LPM**
		Gross Working Head		320.0	
	-	Suction lift	=	3.00	Meters
	-	Delivery head	=	5.00	Meters
	-	Frictional loss in Mains & Specials+ Positive head	=	9.50	Meters
	-	Clear head required	=	58.0	Meters
		Total	=	75.5	Meters
		Or Say	=	**80.0**	**Meters**
		Pump HP = ~~155~~ 320 x 80 x 100 / 60 x 75 x ~~70~~ 76	=	9.48 ~~3.94~~	H.P.
		Or Say	=	**~~5~~ 10.00**	**H.P.**

~~114~~ 404 KLD + 114 = 404 KLD
Say 405 KLD

19 KLH
316.66 LPM

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		It is proposed to provide 2 nos. of motors of ~~5~~ 10 HP sets of ~~155~~ 320 LPM discharge at ~~80~~ M head (One pumps working and One as standby for domestic supply & generator set of same capacity in case of electric failure) for domestice purpose.			
b)		Flushing water supply requirement			
	(ii)	Flushing water supply demand	=	~~72992~~ 75662	liters/day
		Flushing water demand (KLD)	=	75.66 ~~72.99~~	KLD
		Or Say	=	**~~75~~ 76.00**	**KLD**
		L.P.M. for @ 6 hour pumping		76/6 = 12.67 KLH	
		Say	=	~~208.33~~	LPM
		Pump HP = $\frac{210 \times 80 \times 100}{60 \times 75 \times 70}$	=	✓ 210.00 6.22 ~~5.33~~	LPM 211.11 H.P.
		Or Say	=	**7.50**	**H.P.**
		It is proposed to provide 2 nos. of motors 7.5 HP sets of 210 LPM discharge at 80 m head (One pump working &one pump stand by & generator set of same capacity in case of electric failure.			
(V)		**Irrigation Pumping**			
		Water Demand of Horticulture + Road Area	=	15115 or 15 KLD ~~47500~~	LPD or 3.75 KLH
		8 Hours Pumping	=	62.50 ~~98.96~~	LPM
		Say	=	75.0 ~~100~~	LPM
		Head	=	35	Mtr.
		Pump HP = $\frac{~~50~~ 75 \times 35 \times 100}{60 \times 75 \times ~~70~~ 80}$	=	0.9 ~~1.11~~	H.P.
		Or Say	=	**~~2~~ 1.00**	**H.P.**
		It is proposed to provide 2 Nos. of motors of ~~2~~ 1 .0 HP sets of ~~80~~ 75 LPM discharge at 35 M head (One pump are working and one as standby & generator set of same capacity in case of electric failure.)			

UGT
Flushing water Tank
76KL + 15KL = 91 KL
Say 100 KLD

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(VI)	**PUMPS FOR FIRE PROTECTION**					
S. No.	**Parameters**	**Location**	**Pump sets**			
			Water curtain	**Jockey**	**Main**	**Diesel**
1	Discharge in lpm	Pump Room	900 lpm	180 lpm	2850 lpm	2850 lpm
2	Head in metre		50	100	100	110
3	HP		20	7.5	100	100
4	Quantity in nos.		1	2	2	1
(VII)	**GENERATING SETS**					
S. No	**Equipment**	**QTY**		**HP**	**Total HP**	
1	Boosting Station flushing	1		5	5.0	
2	For Jockey Pump	2		7.5	15.0	
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1		~~7.5+7.5+2~~ 10 + 7.5 + 1	~~17.0~~ 18.50	
	Total				**37.0**	
	Disversity 0.8 & Power factor 0.8				**27.60**	**KW**
	Or Say				**43.13**	**KVA**
					45.00	**KVA**
	It is proposed to add 45 KVA capacity for above said machinery to the main DG set.					

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FINAL ABSTRACT OF COST

Sub Work	Description	Amount (Rs.) in Lacs
I	Water Supply Scheme	~~145.86~~ 205.86
II	Sewerage Scheme	~~38.14~~ 68.94
III	Storm Water Drainage	~~16.52~~ 36.45
IV	Road	~~31.05~~ 77.37
V	Street Lighting	~~6.76~~ 9.65
VI	Horticulture	~~0.46~~ 1.79
VII	Maintenance Charges for 10 Years including Resurfacing of Roads after Ist 5 year & IInd 5 years of mtc	~~26.11~~ 83.35
	Total (in Lacs)	~~264.89~~ 481.32
	Cost of Per Acre (in Lacs)	~~105.30~~

481.32 lacs / 2.625 Acre = Rs 183.36 lacs per Acre.

M/S NAVI ESTATES, LLP NEW DELHI

(AUTHORIZED SIGNATORY)

For NAVI ESTATES LLP

Auth. Signatory

Executive Engineer
HSVP Division No. VI
Gurugram

ARCHITECT
Registration No.
CA/2010/48323
KULDEP VERMA

Checked subject to Comments
In forwarding letter No. 330323
Dt. 6/12/2024 ..... and notes
attached with the estimate

Superintending Engineer,
HSVP Circle-I, Gurugram

Sub Divisional Engineer (Q)
o/o Chief Engineer-I
HSVP, Panchkula

Director
Town & Country Planning
Haryana, Chandigarh

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Sub Work No.I — **Water Supply**

Sub Head	Description	Amount (Rs.). In lacs	
1	Head Works	~~41.74~~	64.12 lacs
2	Pumping Machinery	~~11.51~~	19.56 lacs
3	Rising Main	~~5.08~~	7.45 lacs
4	Distribution System (Dom. + Flushing)	~~5.21~~	9.02 lacs
5	Fire Fighting	~~74.01~~	96.28 lacs
6	Irrigation	~~8.30~~	9.37 lacs
	Say (In Lacs)	~~145.86~~	205.80 lacs

For NAVI ESTATES L[illegible]

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c.o. to final abstract of cost

ARCH. KULDEEP VERMA

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-1

Sub Head No-01 — **Water Supply Head Works**

Sl No	DESCRIPTION		Qty		Rate		AMOUNT (In Lacs.)	
1	Boring and installing 200 mm i/d tubewell with reverse rotary rig complete with pipe and strainer to depth of about 150 m in all respect 1 Nos. @ Rs. ~~1000000~~/- each		1		~~850000~~ 15.0	Rs.	~~8.50~~ 15.0	
2	Providing ~~Boosting~~ Submersible Pumping arrangement with chamber by pumps (7.50 HP) at 70 M head, 1 Nos. @ Rs. ~~50,000~~/- each 3 set @ 1.0		1		2 00000	Rs.	2.00	
3	Providing Boosting arrangement by pumps 10 HP, capacity ~~155~~ LPM at ~~80~~ M head, 1 Nos. each & @ Rs. ~~450,000~~/- each (For Domestic) complete with panel, foundation etc. 10.0 HP		(1+1) 2	x	100000	Rs.	2.00	
4	Provision for carriage of materials and other unforseen items (LS) Sum		405 LD			Rs.	0.50	
5	Construction of U.G. tanks of total cap. ~~360~~ KL @ Rs. ~~5500/KL~~ 290 KL Cap. for fire Tank		360	x	~~4500~~ 5500	Rs.	~~16.20~~	22.28
	TOTAL					Rs.	~~27.20~~	41.78 Lacs
	Add 3% contingencies & PE Charges					Rs.	~~0.82~~	1.25 Lacs
	TOTAL					Rs.	~~28.02~~	43.03 Lacs
	Add 49% Department charges, Price Esclation & other unforseen Charges.					Rs.	~~13.73~~	21.09 Lacs
	TOTAL COST					Rs.	~~41.74~~	64.12 Lacs

For NAVI ESTATES LLP

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Sub Work No-1

Sub Work No-02 — **Water Supply** / **Pumping Machinery**

Sl No	DESCRIPTION		Qty		Rate		AMOUNT (In Lacs.)	
1	Provision for diesel engine genset each for standby arrangements for T.W. of booster pump complete with gear head arrangement. - 1 No. 45 KVA @ ~~450000~~ /-.	KVA	1	x	~~450000~~ 15000	Rs.	~~4.50~~ 6.75	
2	Providing for disinfection plant complete. 1 No. @ 50,000/-		1	x	50000	Rs.	~~0.50~~ 0.50	
3	Provision for making foundations and erection of Pumping machinery @ Rs. ~~50000~~/		1	x	50000	Rs.	0.50	
4	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.) for Rs. ~~50000~~/		1	x	50000	Rs.	0.50	
5	Provision for electric services connection including electric fitting for tube wells & boosting chamber etc. 1 set (L.S.) Rs. ~~100000~~/ Cost of Transformer		1	x	~~100000~~	Rs.	~~1.00~~ 2.50	
6	Provision for carriage of material and unforeseen item. L.S. for Building Rs. 50000/		1	x	50000	Rs.	0.50	
	TOTAL					Rs.	~~7.50~~	12.75 Lacs
	Add 3% contingencies & PE Charges					Rs.	~~0.23~~	0.38 Lacs
	TOTAL					Rs.	~~7.73~~	13.13 Lacs
	Add 49% Department charges, Price Esclation & other unforseen Charges.					Rs.	~~3.79~~	6.43 Lacs
	TOTAL COST					Rs.	~~11.51~~	19.56 Lacs

For NAVI ESTATES LLP

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Sub Work No-1

Sub Work No-03 — **Water Supply** — **Rising Main from HSVP**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)	
1	Providing, laying, jointing & testing 100 mm dia. G.I. pipe lines including cost of excavation complete in all respects.	15	@	~~1400~~ 1460	Rs.	0.21	
2	Providing and fixing 100 mm dia. sluice valves including cost of surface boxes and masonary chambers etc., complete in all respects.	1	@	~~75000~~ 12000	Rs.	~~0.75~~ 0.12	
3	Providing and Fixing indicating plates for sluice valves, Air valves & fire hydrant.	1	@	~~10000~~ 2000	Rs.	~~0.10~~ 0.02	
4	Provision for carriage of material & other foreseen items etc., L.S.	1	@	~~50000~~ (L.S.)	Rs.	0.50	
5	Provision for making connection with HUDA main (L.S.) 1 job1 complete in all respect	1	@	~~125000~~ (L.S.)	Rs.	~~1.25~~ 2.50	
6	Provision for cutting road and making good the same (L.S.) 1 job	1	@	~~50000~~ (L.S.)	Rs.	~~0.50~~ 2.50	
	TOTAL				Rs.	~~3.31~~	4.86
	Add 3% contingencies				Rs.	~~0.10~~	0.14
	TOTAL				Rs.	~~3.41~~	5.00 lacs
	Add 49% Department charges, Price Esclation & other unforseen Charges.				Rs.	~~1.67~~	2.45 lacs
	TOTAL COST				Rs.	~~5.08~~	7.45 lacs

Material Statement and design statement of HUDA Rising Mains

S. No.	Name of line	Dia. in mm	Length in m from municipal to U.G.T.
1	Municiple Main To UGT	100	15

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-1 — **Water Supply**

Sub Head No-04 — **Distribution system** (Dom. + Flushing)

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)	
1	Providing, laying, jointing & testing GI pipes including cost of excavation complete as per ISI marked. (Dom. + Flushing)			1430		4.78	lacs
1.1	100 mm I/D	325 (M)	@	~~750~~	Rs.	~~2.44~~	
2	Providing and Fixing sluice valves including cost of brick masonry chamber complete in all respect.						
				1200		0.36	
2.1	100 mm I/D	3	@	~~8000~~	Rs.	~~0.24~~	
2.2	150 mm I/D	0	@	10000	Rs.	0.00	
3	Providing and Fixing air valves and scour valves including cost of brick masonry chamber complete.	2	@	10000	Rs.	0.20	
4	Providing and Fixing indicating plates for sluice valves	2	@	1000	Rs.	0.02	
5	Provision for carriage of material & other foreseen items etc., (L.S). 1 Job including cutting of raod and making the same.	1	@	50000	Rs.	0.50	
	TOTAL				**Rs.**	~~3.40~~	5.88 lacs
	Add 3% contingencies				**Rs.**	~~0.10~~	0.17 lacs
	TOTAL				**Rs.**	~~3.50~~	6.05 lacs
	Add 49% Department charges, Price Esclation & other unforseen Charges.				**Rs.**	~~1.71~~	2.97 lacs
	TOTAL COST				**Rs.**	~~5.21~~	9.02 lacs

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

S. No.	Description	300 mm	200 mm	150 mm	100 mm	80 mm	40mm	65 mm	50 mm
(A)	Domestic								
1	UGT-W2	-	-		15	-		-	-
2	W2-W1	-	-	-	150	-	-	-	-
	TOTAL	0	0	0	165	0	0	0	0
(A)	Flushing								
1	STP-F2	-	-	0	10		-	-	-
2	F1-F2	-	-	-	150		-	-	-
	TOTAL	0	0	0	160	0	0	0	0
	GRAND TOTAL	0	0	0	325	0	0	0	0

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN

DOMESTIC WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self			Additional			AV/WD							Level in start			Remarks
			Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	KLD	Domestic Water demand @ commercial 60% KLD	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity mt/sec	Lose of Head in 1000 M (mts)	Loss of head in the line (mts)	HL (Mts)	GL (Mts)	TH (Mts)	
1	UGT-W2	15.00	-	-	-	Staff =784 person =35280 litre	1088 persons = 76160 litre	3344 persons = 50160 litres	161.600	96.96	290.88	-	-	-	-	370.00	300.00	70.00	Ground Level= +300 U.G.T. Bed Level=290 Add Building Head B+G+11=80 mtrs Add Suction Head=3.0 mtrs Delivery Head=5.0 Positive Head=3.0 mtrs Friction Lose=4.0 mtrs Head Level=370
2	W2-W1	150	-	-	-	Staff =784 person =35280 litre	1088 persons = 76160 litre	3344 persons = 50160 litres	161.600	96.96	290.88	100	0.75	0.4200	0.6299	369.37	300.00	69.37	
3																			

NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN

FLUSHING WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts	Self			Additional			AV/WD	Flushing Water demand @ 40% commercial K.L.D.	Peak Demand @ 3 time of AV/WD	Dia of Pipe (mm)	Velocity mt/sec	Lose of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start			Remarks
			Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	KLD							HL (Mts)	GL (Mts)	TH (Mts)	
1	STP-F2	10	-	-	-	Staff =784 person =35280 litre	1088 persons = 76160 litre	3344 persons = 50160 litres	161.600	64.640	193.92	-	0.75	-	-	370.00	300.00	70.00	Ground Level= +300 U.G.T. Bed Level=290 Add Building Head B+G+11=80 mtrs Add Suction Head=3.0 mtrs Delivery Head=5.0 Positive Head=3.0 mtrs Friction Lose=4.0 mtrs Head Level=370
2	F1-F2	150	-	-	-	Staff =784 person =35280 litre	1088 persons = 76160 litre	3344 persons = 50160 litres	161.600	64.640	193.92	100	0.75	0.2016	0.3024	369.70	300.00	69.70	
3																			

NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-1

Sub Work No-05 — **Water Supply** / **Fire fighting**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs.)
1	Providing, laying jointing & testing M.S. pipe lines for rising main including cost of fitting, valves, connection etc., complete in all respects.	366		2040		7.34
	150 mm I/D for Ring Main	~~644~~	@	~~950.00~~	Rs.	~~6.12~~
	100 mm I/D for Tanker Inlet	64	@	1460 ~~750.00~~	Rs.	~~0.48~~ 0.93
	80 mm I/D for Yard Hydarnt pipe	45	@	1000 ~~675.00~~	Rs.	~~0.30~~
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects					0.45
	- 150 mm dia.	3	@	14000.00	Rs.	0.42
	- 100 mm dia.	1	@	10000.00	Rs.	0.10
	- 80 mm dia.	15	@	8000.00	Rs.	~~1.20~~ 1.50
3	Providing and fixing fire Hydrant with accessories	15	@	10000.00 Each	Rs.	~~1.50~~ 2.25
4	Providing Fire Diesel pumps of 120 HP, capacity 2850 LPM at 100 M head, 1 Nos. each & @ Rs. ~~12,50,000~~/- each complete with panel, foundation etc.	1	@	~~1250000.00~~ 20.0	Rs.	~~12.50~~ 20.0
5	Providing Fire Main pumps of 120 HP, capacity 2850 LPM at 100 M head, 1 Nos. each & @ Rs. ~~12,00,000~~/- each complete with panel, foundation etc.	1	@	~~1200000.00~~ 18.0	Rs.	~~12.00~~ 18.0
6	Providing Fire Jockey pumps of 7.5 HP, capacity 180 LPM at 100 M head, 1 Nos. each & @ Rs. ~~5,00,000~~/- each complete with panel, foundation etc.	2	@	~~500000.00~~ 2.50	Rs.	~~10.00~~ 5.00
7	Providing Water curtain pumps of 40 HP, capacity 900 LPM at 50 M head, 1 Nos. each & @ Rs. ~~3,00,000~~/- each complete with panel, foundation etc.	1	@	~~300000.00~~ (6.3)	Rs.	~~3.00~~ 6.6
8	Providing for carriage of material (L.S.) 1 jobs	1	@	50000.00	Rs.	0.50
9	Providing and fixing Indicating plate	10	@	2000.00	Rs.	0.20
	TOTAL				**Rs.**	~~**48.22**~~ 62.74
	Add 3% contingencies & PE Charges				**Rs.**	~~**1.45**~~ 1.88
	TOTAL				**Rs.**	~~**49.67**~~ 64.62
	Add 49% Department charges, Price Esclation & other unforseen Charges.				**Rs.**	~~**24.34**~~ 31.66
	TOTAL COST				**Rs.**	~~**74.01**~~ 96.28 Cr

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Material Statement of Fire ring – MS – 150mm dia

S. No.	Location	200 mm dia pipe	150 mm dia pipe	100 mm dia pipe	80 mm dia pipe	Fire Hydrant
1	UGT to Fire Ring	-	15	-	-	-
2	Fire Ring Pipe	-	320	-	-	-
3	Tanker inlet connection	-		4	-	-
4	Fire Brigade 4 way	-	12	-	-	-
5	Fire Brigade 2 way	-	12	-	-	-
6	Yard Hydrants = 15 Nos. x 2 Meters +15 Mtr Extra	-	~~285~~	60	45	15
	Total	**0**	**~~644~~**	**64**	**45**	**15**
			359			
	Fire Hydrant System		say 360m			
1	Valves 150mm dia			3	Nos.	
2	Valves 100mm dia			1	No.	
3	Valves 80mm dia			15	Nos.	
4	Fire Hydrants			15	Nos.	
5	Fire Brigade Connections 4 Way			1	No.	
6	Fire Brigade Connections 2 Way			1	No.	

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-1

Sub Work No-06 — **Water Supply Irrigation**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing and testing uPVC pipe line confirming to I.S 4985 including cost of excavation etc., complete in all respects.					
	20 mm O/D for Garden Hydrants	25	@	300 ~~250~~	Rs.	0.08
	75 mm O/D UPVC Pipe for Ring Main	0	@	1" ~~550~~	Rs.	0.00
	90 mm O/D from STP to Ring Main	380	@	1250 ~~750~~	Rs.	~~2.85~~ 4.75
2	Providing and fixing Irrigation hydrant valve complete in all respect.	13	@	5000 ~~4500~~	Rs.	~~0.59~~ 0.65
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 20 mm	13	@	250	Rs.	0.03
5	Providing & fixing sluice valvle compelte with chamber.					
	- 100 mm dia.	1	@	8000	Rs.	0.08
6	Providing and fixing Irrigation pump 2 nos., 1.0 HP, 50 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	~~65000~~ 0.20	Rs.	~~1.30~~ 0.40
	TOTAL				**Rs.**	~~5.41~~ 6.11 lacs
	Add 3% contingencies				**Rs.**	~~0.16~~ 0.18 lacs
	TOTAL				**Rs.**	~~5.57~~ 6.29 lacs
	Add 49% Department charges, Price Esclation & other unforseen Charges.				**Rs.**	~~2.73~~ 3.08 lacs
	TOTAL COST				**Rs.**	~~8.30~~ 9.37 lacs

Material statement of Irrigation System

S. No.	Line Name	90 mm	75 mm OD	50 mm OD	20 mm OD	Irrigation Hydrants
1	Pump Room to Ring main	15				
2	Irrigation Ring	365				
3	GARDEN HYDRANT				25	13
	Total	**380**	**0**	**0**	**25**	**13**

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-II

Sl No	DESCRIPTION	Qty		Rate		Sewerage Scheme AMOUNT (In Lacs)
1	Providing, jointing, cutting and testing S.W.R. PVC pipe including all bends fitting, clamps etc. Complete in all respect running in basement ceiling.			1700		2.55
	200mm dia	150	@	~~1200.00~~	Rs.	~~1.80~~
	150mm dia	0	@	700.00	Rs.	0.00
	100mm dia	0	@	500.00	Rs.	0.00
2	Provision for lighting and watching L.S	1	@	~~50000.00~~ (L.S)	Rs.	0.50
3	Provision for timbering and shuttering L.S.	1	@	~~50000.00~~ (L.S)	Rs.	~~0.50~~ 1.5
4	Provision of 150 mm dia liine form STP to HSVP main by pumping	165	@	~~1000.00~~ 2.040/	Rs.	~~1.65~~ 3.37
5	Providing Boosting arrangement by pumps 2 HP, capacity 175 LPM at 80 M head, 2 Nos. each & @ Rs. 100,000/- each (For Flushing) complete with panel, foundation etc.	(1+1) 2	@	1.50 lacs 100000.00 Each	Rs.	3.00
6	Provision for making STP (KLD)	~~165~~ 175	@	~~10000.00~~ 16000/	Rs.	~~16.50~~ 28.00
7	Provision for carriage of maternal (L.S.)	1	@	~~40000.00~~	Rs.	~~0.40~~
8	Provision of cutting road & making it good as same in original condition - 1 job	1	@	~~50000.00~~	Rs.	~~0.50~~
9	Providing Sewage with HSVP Connection	1	@	~~100000.00~~	Rs.	~~1~~.00
	TOTAL				**Rs.**	~~24.85~~ 44.92
	Add 3% contingencies & PE Charges				**Rs.**	~~0.75~~ 1.35
	TOTAL				**Rs.**	~~25.60~~ 42.27
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~12.54~~ 22.63
	TOTAL COST				**Rs.**	~~38.14~~ 68.94 Lacs

For NAVI ESTATES LLP

Auth. Signatory

ARCHITECT
Registration No.
CA/2010/48323
KULDEP VERMA

Material statement of Sewerage System – As per drawing sheet								
S. No.	Name of Pipe Line	Length of Pipe in M						
		500 mm	450 mm	400 mm	350 mm	100 mm	150 mm	200 mm
1	STP-S2	-	-	-	-			65
2	S2-S1	-	-	-	-			85
3								
4								
5								
	Total					0	0	150

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

(Hydraulic Design Sewerage Scheme)

Sl. No.	Name of Line	Length in Meter	Self			Additional			Average Daily Water Demand	Average Discharge 80% of Domestic + 90% of flushing	Sub Soil Infiltration @ 10% Of AVI W.D	Peak Discharge @ 3 Times of AV Discharge Including Sub Soil Infiltration	Design of Pipe			Gradient	Drop	Level at Start		Level at End	
			Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD	Shopkeepers Staff @ 45LPCD	Restaurant @ 70 LPCD	Shop Visitor @ 15 LPCD					Size of pipe (dia)	Capacity in cusec	Velocity			G.L	I.L		
		Metre	LPD	LPD	LPD	LPD	LPD	LPD	KLD	KLD	LPD	Cusecs	mm	m	ft/sec		Mtr.	Mtr.	Mtr.	G.L (Mtr)	I.L (Mtr)
1	STP-S2	65	Staff =470 person =21150 litre	653 persons = 45710 litre	2006 persons = 30090 litres	-	-	-	96.95	82.408	9.70	0.106	200.000	0.458	0.750	1:250	0.34	1.05	-0.25	1.05	-0.59
2	S2-S1	85	Staff =314 person =21150 litre	1088 persons = 76160 litre	3344 persons = 30090 litres				127.40	108.290	12.74	0.139	200.000	0.458	0.750	1:250	0.45	1.05	-0.59	1.05	-1.04

Note:- 1 The Man hole shall be constructed as per HUDA/ N.B.C Norms
2. LEVEL HAVE BEEN TAKEN WITH REFERNCE TO ROAD LEVEL=1050MM

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-III — **Storm water drain**

S. No.	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, lowering, laying and jointing R.C.C NP-3 pipes and specials into trenches including manholes, chambers etc., excavation, back filling and disposal of surplus earth complete in			2500		9.75
	400 mm I/D Avg. depth upto 2.0 M.	390	@	~~1350~~	Rs.	~~5.27~~
	300 mm I/D Avg. depth upto 2.0 M.	0	@	1550	Rs.	0.00
	250 mm I/D Avg. depth upto 2.0 M.	0				
2	Provision for Road Gullies L.S. with 3m d pipe	LS			Rs.	0.50
3	Provision for lighting and watching	LS			Rs.	0.50
4	Provision for timbering and shoring L.S.	LS			Rs.	0.50
5	Provision for carriage of material & other foreseen items etc., L.S.	LS			Rs.	0.50
6	Provision for Rain water harvesting arrangements for ~~2.5155 Acres @ 1.50 Lac / Acres.~~	2.0000	@	~~150000~~ 3.50 as each	Rs.	~~3.00~~ 7.00
7	Provision for temporary connection with HUDA				Rs.	~~0.50~~ 2.00
	TOTAL				**Rs.**	~~10.77~~ 23.75 as
	Add 3% contingencies & PE Charges				**Rs.**	~~0.32~~ 0.71 as
	TOTAL				**Rs.**	~~11.09~~ 24.46 as
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~5.43~~ 11.99 as
	TOTAL				**Rs.**	~~16.52~~ 36.45 as

C.o. to final abstract of cost

For NAVI ESTATES LLP

Auth. Signatory

ARCHITECT KULDEP VERMA Regd. No. CA/2010/48323

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

STORM WATER DRAIN

S. No	Name of Drain	250mm dia RCC pipe	300mm dia pipe	400mm dia RCC pipe
	Rain Water Harvesting			
1	D1-D2			92
2	D2-D3			57
3	D3-RWH 1			11
4	RWH 1- D4			43
5	D4 -D7			13
6	D5 -D6			76
7	D6 -D7			73
8	D7 RWH2			10
9	RWH2- Runoff			15
	TOTAL	**0**	**0**	**390**

For NAVI ESTATES LLP

Auth. Signatory

NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Hydraulic Design Chart

Storm Water Drain

Calculations are based on Manning Formula $V = (1.486/n) \times m^{2/3} \times s^{1/2}$ in F.P.S System

Sl. No.	Name of Line	Length in Meter	Catchment Area in sqmt		Total Area (Sqmt)	Discharge in Cusec (1 Acre = 1 Cusec)	Proposed dia of pipe (mm)	Velocity (mt/sec)	Design Capacity of Drain (Cusecs)	Gradient	Drop (Mtr.)	Level at Start			Level at End		
			Self	Additional								G.L (Mtr.)	I.L (Mtr.)	Depth (Mtr.)	G.L (Mtr.)	I.L (Mtr.)	Depth (Mtr.)
RAIN WATER HARVESTING																	
1	D1-D2	92	2498	0	2498	0.617	400	0.75	1.680	1:350	0.26	1.05	-0.25	1.30	0.15	-0.51	0.66
2	D2-D3	57	1547	2498	4045	0.999	400	0.75	1.680	1:350	0.16	0.15	-0.51	0.66	0.15	-0.68	0.83
3	D3-RWH 1	11	299	4045	4344	1.073	400	0.75	1.680	1:350	0.03	1.05	-0.68	1.73	0.15	-0.71	0.86
4	RWH 1- D4	43	1167	4344	5511	1.362	400	0.75	1.680	1:350	0.12	0.15	-1.15	1.30	0.15	-1.27	1.42
5	D4 -D7	13	353	5511	5864	1.449	400	0.75	1.680	1:350	0.04	0.15	-1.27	1.42	0.15	-1.31	1.46
6	D5 -D6	76	2063		2063	0.510	400	0.75	1.680	1:350	0.22	0.15	-1.31	1.46	0.15	-1.53	1.68
7	D6 -D7	73	1982	2063	4045	0.999	400	0.75	1.680	1:350	0.21	0.15	-1.53	1.68	0.15	-1.74	1.89
8	D7 RWH2	10	271	9909	10180	2.515	400	0.75	1.680	1:350	0.03	0.15	-1.74	1.89	0.15	-1.76	1.91
8	RWH2- Runoff	15		10180	10180	2.515	400	0.75	1.680	1:350	0.04	0.15	-1.76	1.91	0.15	-1.81	1.96

NOTE:- 1. STORM WATER LINE SHALL BE LAID AS PER NBC/HUDA NORMS.
2. LEVEL HAVE BEEN TAKEN WITH REFERNCE TO ROAD LEVEL=1050MM

For NAVI ESTATES LLP

Auth. Signatory

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

SUB WORK NO. - IV — **Road Work**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acres)			1.75 lacs		4.40
	Area = 2.5155 Acre	2.516	@	~~100000~~	Rs.	~~2.52~~
2	Provision for Granular sub base 100mm, 150 mm thick stone aggragate, 50 mm thick B.M., 20 mm thick ~~pre mix carpet with seal coat~~	2215	@	1500	Rs.	~~11.08~~ 33.23
3	Provison of Paved path of C.C. 1:2:4	360	@	1000	Rs.	~~1.08~~ 3.60
4	Provision for Kerbs & channels of CC 1:2:4	360	@	~~350~~ 600	Rs.	1.26
5	Provision for making approach to each block for C.C. pavements L.S.		@	50000	Rs.	0.50
6	Provision of guide maps at selected place (L.S.)		@	50000	Rs.	0.50
7	Provision for Traffic Lights arrangement - L.S.		@	~~30000~~	Rs.	~~0.30~~ 2.00
8	Provision for Demarcating Durgies - L.S.		@	50000	Rs.	0.50
9	Provision for Plot indicator - L.S.		@	50000	Rs.	0.50
10	Provision for Parking Arrangment, L.S.		@	150000	Rs.	1.50
11	Provision of carriage of material and unforseen items L.S.		@	50000	Rs.	0.50
	TOTAL				**Rs.**	~~**20.23**~~ 50.42 lacs
	Add 3% contingencies				**Rs.**	~~**0.61**~~ 1.51 lacs
	TOTAL				**Rs.**	~~**20.84**~~ 51.93 lacs
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~**10.21**~~ 25.44 lacs
	TOTAL				**Rs.**	~~**31.05**~~ 77.37 lacs

For NAVI ESTATES LLP

Auth. Signatory

ARCHITECT KULDEP VERMA

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Road Work

S. No.	Name of Road	Length of Road (in Mtrs.)	Road Width	Metalled Width (Mtrs.)	Area in Sqm.
	A	B	C	D	B x D
1	Road No.A	331		6	1986.00
	Total	**331**			1986.00
	Add 10 % for curves				198.60
	Total				2,184.60
	Add for surface plaza/ parking				-
	Total				**2,184.60**
	Say				**2,215.00**

Total Length of road	331	
Add 10% curves	33.1	
Total Length	364.1	
Say	**360**	**Mtrs.**

No. of CAR Parking = 0 Nos.	0	Nos.
Surface Plaza Area =2X5X3	0	Sqmts.
CC foot paths on both side road		
CC foot paths on One side = length of road	360	Mtrs.

For NAVI ESTATES LLP

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Sub Work No-V — **Street Lighting**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing street lighting on roads as per standard specifications on HVPN			2.50 lacs		6.29 lacs
	Area = 2.5155 Acre	2.516	@	~~175000~~ Acre	Rs.	~~4.40~~
	TOTAL				**Rs.**	~~**4.40**~~
	Add 3% contingencies				**Rs.**	~~**0.13**~~ 0.19
	TOTAL				**Rs.**	~~**4.53**~~ 6.48 lacs
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~**2.22**~~ 3.17 lacs
	TOTAL				**Rs.**	~~**6.76**~~ 9.65 lacs

C.o. to final abstract of agt

For NAVI ESTATES LLP

Auth. Signatory

ARCHITECT * KULDEP VERMA * Registration No. CA/2018/48223

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

Sub Work No-V1					**Plantation & Road side trees**	
Sl No	**DESCRIPTION**	**Qty**		**Rate**		**AMOUNT (In Lacs)**
1	Development of Lawn Area :-					
	a) Trenching the ordinary soil upto depth of 60 cm. including removal and packing of serviceable material and disposing at a lead of 50 M. and making up the trenched area to proper level by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure.					
	b) Rough dressing of trenched area.					
	c) Grassing with "grass" including watering and maintenance of lawns free from weeds and fit for moving in rows 7.50 cm. in either direction including for hedges and grill and barred wire fencing around park and green belts (As per HSVP norms)					
	Area =0.283 Acres	0.283	@	150000	Rs.	~~0.28~~ 0.42
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	360				
	Trees @ 12 M. c/c	30				
	Say (1x 30) = 30 Or Say	30				
	Cost of One Tree :-					
	Excavation (Rs.) ~~30/-~~ 60.00					
	Manure (Rs.) ~~40/-~~ 100.00					
	Tree Plants (Rs.) ~~80/-~~ 150.00					
	Tree Guards (Rs.) ~~600/-~~ 2000.00					
	Total Cost (each)					
	Cost of Total trees 2310	30 No.	@	~~64~~ 2310/ each	Rs.	~~0.02~~ 0.69 lac
	TOTAL				Rs.	~~0.30~~ 1.11 lacs
	Add 3% contingencies				Rs.	~~0.01~~ 0.03 lacs
	TOTAL				Rs.	~~0.31~~ 1.14 lacs
	Add 49% Department charges, price esclation, other for unforseen charges.				Rs.	~~0.15~~ 0.56 lacs
	TOTAL				Rs.	~~0.46~~ 1.70 lacs

For NAVI ESTATES LLP

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ARCHITECT
Registration No. CA/2004/8323
KULDEP VERMA

REVISED BUILDING PLAN FOR COMMERCIAL COLONY AREA MEASURING 2.625 ACRES IN SECTOR 34, SOHNA BEING DEVELOP BY SMT. MONIKA RAIZADA W/O SH. NAVEEN RIZADA IN COLLABORATION WITH NAVI ESTATES LLP. (LICENCE NO 79 OF 2018 DATED 17/11/2018)

SUB WORK NO. VII: **MTC. CHARGES AND RESURFACING OF ROADS.**

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for maintenance charges for water supply, sewerage, storm water, drainage, roads, street light, Hort., etc. complete including operation & establishment charges as per HSVP norms after completion.					
	Area = 2.5155 Acre	2.5155	@	~~280000~~ 8.00	Rs.	~~7.04~~ 20.12 lacs
2	Provision for resurfacing of roads after first five years of maintenance i.e.20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	2215	@	~~250~~ 660	Rs.	~~5.54~~ 14.62 lacs
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	2215	@	~~200~~ 825	Rs.	~~4.43~~ 18.27 lacs
	TOTAL				**Rs.**	~~47.01~~ 53.01
	Add 3% contingencies				**Rs.**	~~0.51~~ 1.59
	TOTAL				**Rs.**	~~47.52~~ 54.60
	Add 49% Department charges, price esclation, other for unforseen charges.				**Rs.**	~~8.59~~ 26.75
	TOTAL				**Rs.**	~~26.11~~ 81.35 lacs

For NAVI ESTATES LLP

Auth. Signatory

ARCHITECT Registration No. CA/2010/48323 KULDEP VERMA