# PROJECT REPORT / ESTIMATES FOR PROVIDING INTERNAL SERVICES e.g. WATER SUPPLY, FIRE, SEWERAGE & STORM WATER DRAINAGE ETC. IN RESPECT OF GROUP HOUSING PROJECT AT SECTOR-92, GURGRAM (HARYANA)

Sohna (Gurgram) is located at 28°28'N 77°02'E28.47°N 77.03°E/28.47; 77.03. It has an average elevation of 220 metres (721 ft) Gurgram district, comprising four blocks Pataudi, Sohna, Gurgram 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 district 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. Gurgram 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 213 to 305 meters above sea level.

## AFFORDABLE HOUSING is a residential proposed at Sohna, at Gurgram for development by M/S NANI RESORTS AND FLORICULTURE PVT.LTD

#### Water Supply

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.

#### 1 Source

The source of water supply in this area is tubewells as the underground water is sweet and fit for human consumption, moreover, the water is available at reasonable depth. The average yield of tubewell with 60'–80' strainer will be about 18000 lph per hour. The recharging of under ground water table in this belt is stated to be good. However still we shall resort to rain water harvesting system to keep up the recharging system. The number of tubewells required for the above area has been worked out to 2 Nos and the tubewells will be bored in tune with growth of demand to avoid absolence of the tubewells. The ultimate requirement of tubewells includes provision of 10% standby.

#### 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 2.50 ft. per second velocity ie. 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.

### 4 Storm Water Drainage

The storm water drain is being designed to carry 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 NP2 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 m	ade.			
7	Horticulture					
	Estimates and details of plantation, landscaping	, signage et	c. has beer	nincluded		
8	Specifications :					
	<u></u>				( 5	1
	The work will be carried out in accordance	with the	standard s	specifications of	of PH as laid do	own by the
	HUDA/Haryana Government.	I		T	T	
	Peter					
9	Rates					
	Estimates for providing services in this site has be	oon proper	od on the r	accet market re	)	
	Estimates for providing services in this site has t	been prepar	ea on the r		lles.	
10	Cost					
10	COST					
	The total cost of development in this Project incl	uding vario	us PH & R	& R services w	orks out to <b>Rs. 39</b> 1	lacs which
	includes 3% contingency and PE charges and 49				onto out to <b>115. 00</b> 1	idos Willon
	The cost per gross acre for this works out to Rs					
	supply, sewerage, storm water drainage, roads		nting and p	lantations inclu	ding plantations n	naintenance
	thereof as well as future expansion whatsoever i	ndicated.				
		<i>(</i> = . ==				
	M/S NANI RESORTS AND FLORICULTURE P	VI.LTD				
	A. Albania and Oismantana					
	Authorised Signatory					

	GROUP HOUSING AT SE	CTOR-92	, GURUGI	RAM (HARY	ANA)
1	DESIGN CALCULATION				
•	DESIGN CALCULATION				
i)	Daily Domestic Water Requirement				
a)	Residential (D.U)			729	
	Population @ 5 person per unit - DU			5	
	Therefore population (DU)			3645	persons
	Population (Maintenance & Security Personnel)				persons
	Total Population				persons
			2.11		
			SAY	3655	persons
	Water requirement		@	172.5	liter / head / day
				630487.50	lpd
			or	630.00	
				05000	Pot I
b)	Anganwadi	1	@		lit/day
	Therefore daily water requirement				lit/day KLD (b)
					(2)
c)	No. of Club	1			
	Daily water requirement lumpsum		@	25000	lit/acre
	Therefore daily water requirement				lit/day
				25	KLD (c)
d)	No. of Convenient Shopping	1			
u)	Daily water requirement lumpsum		@	20000	lit/acre
	Therefore daily water requirement				lit/day
	, , , , , , , , , , , , , , , , , , , ,			20.00	,
:::\	Total Daile Water Danwinson and fau (a. b. a. d)			700.00	IZI D
ii)	Total Daily Water Requirement for (a+b+c+d)			700.00	KLD
a)	Domestic Water Requirement @	70%		490.00	KLD
/		70	Say	500.00	
b)	Flushing Water Requirement @	30%		210.00	
			Say	210.00	KLD
iii)	Water usage from STP				
a)	Area under Parks	1.12	acre		
	Daily water requirement		@		lit/acre/day
		_		28000.00	lit/day
				28.00	KLD

b)	Area under Roads					
- 5)	Daily water requirement		Lumpsum	7500	lit/acre/day	
	Daily water requirement		Lampoum		lit/day	
					KLD	
				7.5	INLU	
c)	Under Road+ Parks (a+b)		Total	35.50	KID	
<i>C)</i>	Officer (Cad+ Fairs (a+b)			<b>36.00</b>		
			Say	36.00	KLD	
iv)	Total treated water requirement [ii (b) + iii (c)]			246.00	KLD	
	Total Daile Dameiramant Fill (a) . i.e.1			740.00	I/I D	
v)	Total Daily Requirement [ii (a) + iv ]			746.00	KLD	
			SAY	746.00	KLD	
			0.11	1 10100	1122	
2	Tubewell					
	Assuming working hours of tubewells			14	hours	
	Assuming discharge/hour of each tubewell			18	KL/hours	
	Total fresh water demand			500.00		
	No. of tubewells required	500.00	/18/10	1.98		
	Add 10% standby			0.20		
			Total	2.18		
			Sav	2.00		
	It is proposed to provide (i.e. 2 No. ) to cater the	present rea	,			
	The production of the second o	F. 555111 109				
3	Pumping machinery for tubewell					
	Gross working load		=	70.00	m	
	Average fall in SL		=	3.05		
	Depression head			6.10		
			=			
	Friction loss in main		=	2.50		
			=	81.65		
		Say	=	82.00	m	
	BHP = 18000x77x1/60x60x75x0.6		=	9 11	ВНР	
	With 60% efficiency	Say	_		BHP	
	With 60 70 chickery	Oay		10.0	Dili	
4	Underground Tank				İ	Ī
	Daily fresh water requirement for domestic use			=	500.00	KL
	Capacity of under ground tank					
	36 hours storage	500.00	x 36 / 24	=	750.00	
	For fire 100 sqrt (P)= 100 sqrt (3.64)			=	191.18	KL
	Fire Tank Capacity Proposed As / IS Code					
	15105 & NBC 2016 (as no. of hydrants are					
	more than 100)		Say	_	200.00	KI
	more than 100)		Say	-	200.00	KL
			Tatal		050	I/I
			Total		950	r\L
	It is proposed to provide under ground tank of ca	pacity <b>950</b>	KL which a	lso includes 20	0 KL capacity for f	re fighting.
	, , ,	,,		<b></b>		Jg.
	Ti		1.4			
	This tank will have Six compartments, two for fi					
	enters the fire compartment, then over flows to	tne raw use	compartm	ent so that the	water in the fire c	ompartment
	shall remain fresh.					Ĭ.
	FIRE WATER TANK				200.00	
	TOTAL UG STORAGE (DOMESTIC + FLUSHIN	NG + HORT	ICULTURE	E)	1000.00	KL
	RAW WATER TANK				250.00	
	DOMESTIC WATER TANK				500.00	
	FLUSHING, HORTICULTURE & ROAD WASHI	NG (PART	OF STP)		250.00	
	. 100.mts, Hoteliote a Road Wall		,		200.00	

	1	1		T		Т
_			_			
5	DOMESTIC WATER PUMPS - LOCATED IN P	UMP ROOM	1	1		l
a.)	RAW WATER FILTER FEED PUMP					
<u>u.,</u>	Daily requirement for domestic use			=	500.00	KI
	Assuming 12 hours running 1 pumps (with one s	standby)			000.00	
	Discharge/hour	500.00	/12 / 1	=	41.67	KL/HR
	Head of pump		-		-	-
	i) Suction lifts			=	0.0	m
	ii) Friction loss in M <main &="" specials<="" td=""><td></td><td></td><td>=</td><td>0.0</td><td></td></main>			=	0.0	
	iii) Clear head			=	35.0	m
				=	35.0	m
	BHP of motor	11.67	v1000v25/	4500v60v0 60	9.0	ШΒ
	BULL OF HIOTOF	41.67	SAY	4500x60x0.60	10.0	
			SAI	=	10.0	ПР
h /	Domestic Water Transfer Pumps					
b.)	Daily requirement for domestic use overhead tar	ok filling (in	two chiftol		250.00	KI
	Assuming 6 hours running 1 pumps (with one sta		(VVO SIIIIS)	=	250.00	IXL.
	Discharge/hour	250.00	/6/1	_	/1 67	KL/HR
	Head of pump	250.00	70/1	=	41.07	IXL/IIX
	i) Suction lifts			=	0.0	m
	ii) Friction loss in M <main &="" specials<="" td=""><td></td><td></td><td>=</td><td>15.0</td><td></td></main>			=	15.0	
	iii) Clear head			=	45.0	
	iv) Residual head			=	15.0	
	17) Redidual fieda			_	75.0	
					70.0	
	BHP of motor	41.67	x1000x55/	4500x60x0.60	19.3	HP
			SAY	=	20.0	
6	<b>FLUSHING WATER PUMPS - LOCATED IN ST</b>	ГР		'		'
	Daily requirement for flushing use (in two shifts)			=	105.00	KL
	Assuming 6 hours running 1 pumps (with one sta	andby)				
	Discharge/hour	105.00	/6/1	=	17.50	KL/HR
	Head of pump					
	i) Suction lifts			=	0.0	
	ii) Friction loss in M <main &="" specials<="" td=""><td></td><td></td><td>=</td><td>15.0</td><td></td></main>			=	15.0	
	iii) Clear head			=	45.0	
	iv) Residual head			=	15.0	
				=	75.0	m
	BHP of motor	17.50	x1000x55/	4500x60x0.60	8.1	HP
			SAY		10.0	
7	PUMPS FOR FIRE PROECTION	I				
	Pump Description	Location	Nos.	Discharge	Head	HP
i)	Diesel Pump	Pump Room	2	2280	95.00	
ii)	Hydrant Pump	Pump Room	1	2280	95.00	80
				400	25.22	40
iii)	Jockey Pump	Pump Room	1	180	95.00	10

8	Capacity of Gen Set	Nos.	HP									
a.)	Raw Water Transfer Pumps	2	10.0	=	20	HP						
b.)	Domestic water transfer pumps	2	20.0	=	40	HP						
d.)	Flushing water transfer pumps	2	10.0	=	20	HP						
g.)	Fire Pump (Jockey)	1	10.0	=	10	HP						
h.)	Tubewell	2	10.0	=	20	HP						
j.)	Lighting			=	25	HP						
					135	HP						
	or	135	x0.746x1.5	50	151.065	KVA						
			Say		160	KVA						
	Requirement of 160 KVA capacity will be added	in to the ma	ain D.G. set	to provide star	Requirement of 160 KVA capacity will be added in to the main D.G. set to provide standby supply.							

M/S NANI RESORTS AND FLORICULTURE PVT.LTD At Gurgoan (Haryana)								
Description		Amount (Lacs.)						
Sub Work - I Water Supply		176.20						
Sub Work - II Sewerage		69.74						
Sub Work - III Storm Water Drainage		35.37						
Sub Work - IV Roads & Footpath		41.44						
Sub Work - V Street Lighting		7.69						
Sub Work - VI - Horticulture		8.07						
Sub Work - VII - Maintenance of Services for 10 years including resurfacing of roads after 1st 5 years & II phase i.e. 10 years of maintenance (as per HUDA norms)		52.35						
	Total	390.85						
	Say	391.00						
(RUPEES FIVE CRORE EIGHTY SEVEN LACS ONLY)								
M/S NANI RESORTS AND FLORICULTURE PVT.LTD At	Gurgoan (Haryana)							
Authorized Signatory								

SUMMARY OF	SUB WORK - I (WATE	R SUPPLY)	
			Amount (Lacs.)
Sub Head - ( I ) Head Works			38.60
Cas Fload (1) Fload Works			00.00
Sub Head - ( II ) Pumping Machinery			30.08
Sub Head - ( III ) Distribution System			19.86
Sub Head - ( IV ) Irrigation Scheme			3.47
Sub Head - ( V ) Fire Scheme			22.80
Total			114.81
Add 3% Contingencies			3.44
			118.25
Add 49% Departmental Charges			57.94
	Total		176.20
(CO to final abstract of cost)		Say	176.20

	Sub Work I				Water Supply	
	Sub Head No. I				Head Works	
S. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
					(in Lakhs)	
1	Boring and installing 510 mm i/d tubewells with reverse/direct rotary rig complete with pipe strainer to a depth of about 80 m. complete					
		Nos.	2	200000.00	4.00	
2	Constructing pump chambers as per standard design of PWD PH/HUDA of size 1.50x1.50 m					
	design of FWD FH/HODA of Size 1.50x1.50 III	Nos.	2	75000.00	1.50	
3	Construction of boosting chambers of suitable size along with under ground tank of capacity 950 KL pumping machinery and generating set etc. complete in all respects.					
	Details of boosting station					
i)	construction of boosting chamber				4.00	
ii)	UG tank 950 KL capacity incl. 200 KL for fire fighting in two compartments @ 2800 / KL.				26.60	
4	Provision for carriage of material and other unforeseen items				0.50	
5	Provision for facilites staff for Maintenance				2.00	
	(C.O. to abstract of cost of Sub-work No.I)				38.60	
				Say	38.60	Lacs

	Sub Work I				Water Supply	
	Sub Head No. II			D	Pumping Machinery	
	oub flead No. II			•	umping Machiner	у
S. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
			,		(in Lakhs)	
1 (i)	Providing & installing electricity driven pumping set capable of delivering 695 LPM of water against a total head of 35 m complete with motor and other accessories (For Filter feed pump - 10 HP)	Nos.	2	57000.00	1.14	
(ii)	Providing & installing electricity driven pumping set capable of delivering 695 LPM of water against a total head of 75 m complete with motor and other accessories (For Domestic - 20 HP)	Nos.	2	85000.00	1.70	
(iii)	Providing & installing electricity driven pumping set capable of delivering 195 LPM of water against a total head of 75 m complete with motor and other accessories (For Flushing - 10.0 HP)	Nos.	2	57000.00	1.14	
2	Provision for diesel engine generator set each for standby Arrangements for booster pump complete with gear head arrangements of following coalcities.	Nac	1	4000000 00	40.00	
	1 No 160 KVA	Nos.	1	1000000.00	10.00	
3	Providing & installing pumping set of following capacities for fire protection:					
i)	180 LPM @ 95 M Head (10 HP)	Nos.	1	57000.00	0.57	
ii)	2280 LPM @ 95 M Head (80 HP) Hydrant	Nos.	1	178000.00	1.78	
iii)	2280 LPM @ 95 M Head (DG Pump)	Nos.	2	345000.00	6.90	
4	Provision for diesel engine genset stand bye arrangements for Tubewells	Nos.	2	120000.00	2.40	
5	Provision for cheap pressure type chlorination plant complete	Nos.	2	15000.00	0.30	
6	Provision for making foundations & erection of pumping machinery	LS			0.75	
7	Provision for pipes, valves & specials inside the pump chamber	LS			1.00	
8	Provision for electric services connection including electric fittings for tubewells chambers complete	LS			1.65	
9	Provision for carriage for materials and other unforeseen items	LS			0.75	
	(C.O. to abstract of cost of Sub-work No.I)				30.08	
	(3.5. to about of cool of cub work (40.1)			Say	30.08	
					33300	

	Sub Work I	Water Supply					
	Sub Head No. III			Distribu	tion System/Risir	ng Main	
S. No.		Unit	Qty	Rate	Amount (Rs.)		
1	Providing, laying, jointing & testing ASTM pipes						
	including cost of excavation complete as per ISI						
	marked.						
v)	65 mm dia	М	55	620.00	34100.00		
	80 mm dia	M	700	700.00	490000.00		
vii)	100 mm dia	M	925	1050.00	971250.00		
2	Providing, laying, jointing & testing CPVC pipes						
	including cost of excavation complete as per ISI						
	marked.						
i)	25 mm dia	М	50	59.00	2950.00		
ii)	32 mm dia	M	200	87.00	17400.00		
	40 mm dia	M	200	119.00	23800.00		
	50 mm dia	M	55	198.00	10890.00		
.•,		1*1		.30.00	.0000.00		
3	Providing, fixing & Testing Ball valves including						
-	cost of complete in all respects.						
i)	25 mm dia ( CPVC )	Nos.	5	120.00	600.00		
	32 mm dia (CPVC)	Nos.	15	150.00	2250.00		
	40 mm dia	Nos.	15	201.00	3015.00		
4	Providing, fixing & Testing Butter Fly valves						
	including cost of complete in all respects.						
i)	50 mm i/d	Nos.	5	600.00	3000.00		
ii)	80 mm i/d	Nos.	2	890.00	1780.00		
iii)	100 mm i/d	Nos.	2	1083.00	2166.00		
5	Providing, fixing & Testing Non Return valves						
	(NRV) including cost of complete in all respects.						
i)	100 mm i/d	Nos.	2	1520.00	3040.00		
6	Providing and fixing air valves and scour valves						
	including cost of complete in all respects.						
		Nos.	2	1200.00	2400.00		
7	Providing and fixing indicating plates for						
	Buteerfly valve, air valve etc.	Nos.	4	600.00	2400.00		
	Description for acquire as of material	1.0			75000.00		
8	Provision for carriage of material	LS	-	-	75000.00		
9	Provision for cutting the roads and making to its						
9	original conditions.	LS	_	_	75000.00		
	onginai conditions.	LO	<u> </u>	-	7 3000.00		
10	Making water supply connection.	LS		_	150000.00		
10	water supply confidention.				100000.00		
11	Provision for rising main from tubewells to UG Tank						
i)	100 mm i/d	М	230	500.00	115000.00		
')	100 mm /u	141	230	300.00	1 13000.00		
	(C.O. to abstract of cost of Sub-work No.I)				1986041.00		
						I .	
				Say	19.86	Lacs	

	1					
S. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
	Sub Work I				Water Supply	
	Sub Head No. IV				Irrigation	
S. No.						
	Description	Unit	Qty	Rate	Amount	
1	Providing, laying, jointing & testing uPVC pipe	- Onne	Q.y	ruic	Amount	
'	line confirming to IS 4985 including cost of					
	Excavation etc. complete in all respect.					
i)	25 mm dia	М	50	150.00	7500.00	
ii)	65 mm dia	М	50	240.00	12000.00	
ii)	80 mm dia	М	1000	273.00	273000.00	
2	Providing and fixing 20mm dia Irrigation					
	hydrant valve complete in all respect.	Nos.	33	550.00	18150.00	
3	Providing & fixing valve 25mm dia	Nos.	33	120.00	3960.00	
4	Providing, fixing & Testing Butterfly valves					
	including cost of complete in all respects.					
i)	80 mm i/d	Nos.	3	890.00	2670.00	
F	Droviding and fiving air valves and accur valves					
5	Providing and fixing air valves and scour valves including cost of complete in all respects.					
	including cost of complete in all respects.	Nos.	3	1200.00	3600.00	
		1103.	3	1200.00	3000.00	
6	Providing and fixing indicating plates for sluice					
	valve, air valve etc.	Nos.	6	600.00	3600.00	
7	Provision for carriage of materials etc. and	LS			7500.00	
	other unforsean charges	LO	-	-	7500.00	
8	Provision for cutting of roads & making good to	LS	_	_	15000.00	
	its in original condition				10000.00	
	(O O to the street of oct of Oct over the N			Tatal	240000 22	
	(C.O. to abstract of cost of Sub-work No.I)			Total	346980.00	Lana
				Say	3.47	Lacs

S. No.	Description	Unit	Qty	Rate	Amount (Rs.)				
	P. C.				,				
	Sub Work I		, '		Water Supply				
	Sub Head No. V				Fire Scheme				
S. No.		Unit	Qty	Rate	Amount (Rs.)				
1	Providing, laying, jointing & testing M.S. pipes								
	for fire ring main including cost of Fittings,								
	Valves & excavation complete (as per ISI								
2)	marked) in all respect.  150 mm dia	М	1200	1250.00	1500000.00				
a) b)	100 mm dia	M	50	1000.00					
- /	80 mm dia	M	100	900.00					
0)	oo miii dia	IVI	100	900.00	90000.00				
2	Providing and fixing External Fire Hydrants								
_	complete with hose box, and accesories.	Nos.	29	10000.00	290000.00				
	compress man need box, and accessment								
3	Providing & fixing sluice valve.								
a)	150 mm dia	Nos.	4	12000.00	48000.00				
b)	100 mm dia	Nos.	2	9000.00	18000.00				
c)	80 mm dia	Nos.	29	6000.00	174000.00				
4	Providing, fixing & Testing Non Return valves								
	(NRV) including cost of complete in all								
	respects.								
i)	100 mm i/d	Nos.	2	1520.00	3040.00				
5	Provision for cutting of roads and carriage of	LS	-	-	40000.00				
	materials etc. and other unforsean charges								
6	Provision for indication plates	Nos.	29	600.00	17400.00				
0	Provision for indication plates	INUS.	29	600.00	17400.00				
7	Provision for carriage of material	LS	_		50000.00				
					33330.00				
	(C.O. to abstract of cost of Sub-work No.I)			Total	2280440.00				
				Say	22.80	Lacs			

	5 1.1		-			
6. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
	Sub Work II			;	। Sewerage Scheme	<del>)</del>
S. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
	Providing, lowering, jointing, cutting salt glazed					
	stone ware pipes and specials into trenches					
	including cost of excavation, bed concrete lot					
	of manholes complete.					
:\	250 mm i/d					
,	Average depth 1.5 m to 4.5 m	М	704	1100.00	774400.00	
u)	Average depth 1.5 in to 4.5 in	IVI	104	1100.00	774400.00	
2	Provision for lighting, watching and temporary	LS	_		45000.00	
	diversion of traffic	LS	-	-	45000.00	
3	Provision for cutting of roads and carriage of	1.0			05000.00	
	materials etc. and other unforsean charges	LS	-	-	25000.00	
4	Provision for connection with HUDA	LS	-	-	200000.00	
5	Cost of 550 Kld Sewerage Treatment Plant.	LS	550	6000	3300000.00	
	Provision for CI / DI pipe 150 mm dia pipe from STP. To Huda Main Line.	LS	-	-	200000.00	
				Total	4544400.00	
	Add 3% contingencies				136332	
					4680732.00	
	Add 49% Deptt. Charges				2293558.68	
	, idd 1070 Dopin Ondigod			Total	6974290.68	
				Say	69.74	Lacs

. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
	Sub Work - III			S	Storm Water Drain	1
6. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
1	Providing, lowering, jointing, cutting RCC NP2 pipes and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.	<u> </u>	a.y	Rute	Amount (165.)	
i)	300 mm i/d					
a)	Average depth upto 1.5 m	M	671	1050.00	704550.00	
2	Provision for Dood Cully & Drain	LS			200000.00	
	Provision for Road Gully & Drain	LO	-	-	200000.00	
	Provision for cutting of roads and carriage of materials etc. and other unforseen items	LS	-	-	50000.00	
4	Provision for disposal arrangements Recharge Pit .	Nos	5	200000.00	1000000.00	
	Provision for lighting, watching and temporary diversion of traffic	LS	-	-	200000.00	
6	Provision for connection with HUDA	LS	-	-	150000.00	
				Total	2304550.00	
	Add 3% contingencies				69136.50	
					0070000 50	
	Add 49% Deptt. Charges				2373686.50 1163106.385	
	Add 49 /0 Deptil. Charges				1103100.303	
				Total	3536792.89	
				SAY	35.37	Lacs

S. No	. Description	Unit	Qty	Rate	Amount (Rs.)	
3. NO	Description	Offic	Qty	Kale	Alliount (Ks.)	
	Sub Work IV		I		Road Work	
S. No		Unit	Qty	Rate	Amount (Rs.)	
1	Provision for leveling & earth filling as per site					
	condition 5.01 acre @ 125000/acre	Acres	5.01	75000	375750.00	
2	Construction of road by:-					
_	i) soling coat 100 mm thick (63-45) mm gauge					
	compacted to 75 mm thick WBM conforming to					
	MOTspecification (table 400-6,grading no 2)					
	1763.885 sqm.X0.10 m - 176.388 cum say					
	177 cum @ 950/ cum	Cu. mtr.	177.0	600	106200.00	
	ii) Wearing coat (top coat) 100 mm thick					
	(53-22.4)mm gauge compacted to 75mm thick					
	conforming to MOT specifications (table 400-6,					
	grading no 3) 1763.885 sqm.X0.10 m -					
	176.388 cum say 177 cum @ 950/ cum	Cu. mtr.	177.0	600	106200.00	
	iii) 25mm thick pre-mix carpet with seal coat	_				
	1763.885 sqm. say 1764 sqm @ 265/ sqm	Sq. mtr.	1764.0	200	352800.00	
3	Provision for making approach and pavement					
3	to building block by providing concrete					
	pavement or tiles. Etc. 4629.616 sqm. Say					
	4630 sqm @ 500 / sqm.					
		Sq. mtr.	4630.0	300	1389000.00	
4	Drawinian for parking arrangement CEO ages @					
4	Provision for parking arrangement 650 sqm.@ 500/sqm	Sq. mtr.	650	300	195000.00	
	300/3q111	oq. mu.	030		193000.00	
5	Provision for Carriage of material	LS.		75000.00	75000.00	
	Ŭ.					
6	Provision for traffic lighting and guide map/					
	indicators	LS.		100000.00	100000.00	
			Total		2699950.00	
			I Otal		2033330.00	
	Add 3% contingencies				80998.50	
					2780948.50	
			Total		27.81	Lacs
	Add 49 % department charges	<u> </u>			13.63	
		SAY			41.44	Lacs

S. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
	·				` ,	
	Sub Work V				Street Lighting	
			_			
S. 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	per acre	5.010	100000.00	501000.00	
	Add 3% contingencies				15030.00	
	Total				516030.00	
	Add 49% Deptt. Charges				252854.7	
			Total		768885.00	
		SAY				Lacs
	Sub Work VI				Horticulture	
<b>S. No.</b> 1	Description  Development of lawn area	Unit	Qty	Rate	Amount (Rs.)	
	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.					
	c) Grassing including watering & maintenance of lawns free from weeds & fit for mowing in rows including hedges, shrubs & green belts (as per HUDA Norms)					
	5.01 acres @ Rs. 0.75 lacs.				375,750	
	200 trees @ Rs. 750/- each				150,000	
					525750.00	
	Add 3% contingency charges				15772.50	
	Add 400/ Danti Obarra			Total	541522.50	
	Add 49% Deptt. Charges			Total	265346.03	
			001	Total	806868.53	Lacs
			say		0.07	Laus

S. No.	Description	Unit	Qty	Rate	Amount (Rs.)	
	Sub Work VII				Maintenance Charges & Resurfacing of Roads	
S. 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.	Oint	wiy	Nate	Amount (NS.)	
	5.01 acres @ 3.5 lacs per acre				1753500	
2	Provision for resurfacing & strengthening of road after five years of 1st phase @ 200/- per sqm	Sq. mtr.	5100	200	1020000.00	
3	Provision for resurfacing & strengthening of road after ten years of 2 <sup>nd</sup> phase @ 125/- per sqm	Sq. mtr.	5100	125	637500.00	
					3411000	
	Add 3% contingency & PE charges				102330	
				Total	3513330	
	Add 49% Departmetal charges				1721531.7	
				Total	5234861.7 52.35	Lana
			say		52.35	Laus

			ABLE HOUS		SECTOR-9	2, GURUG	RAM (HARY	ANA)						
S.No.	Line	e No.	Length	Dia o	of Pipe	Slope		Depth		Excavation		EXCAV	/ATION	
0.110.						Оюро	Start	End	Avg.	Depth	0.0 -1.5	1.5 - 3.0	3.0 - 4.5	4.5 - 6.0
	From start	То	(mtr.)	(mm)	(mtr.)		(mtr.)	(mtr.)	(mtr.)	(cum.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)
1	SW 1	SW 2	18.0	200	0.200	150	0.80	0.92	0.86	12.53	18.0	0.0	0.0	0.0
2	SW 2	SW 3	27.0	200	0.200	150	0.92	1.10	1.01	21.22	27.0	0.0	0.0	0.0
3	SW 3	SW 4	21.0	200	0.200	150	1.10	1.24	1.17	18.52	21.0	0.0	0.0	0.0
4	SW 4	SW 43	21.0	200	0.200	150	1.24	1.38	1.31	20.29	21.0	0.0	0.0	0.0
	start													
1	SW 9	SW 10	21.0	200	0.200	150	0.80	0.94	0.87	14.74	21.0	0.0	0.0	0.0
2	SW 10	SW 11	16.0	200	0.200	150	0.94	1.05	0.99	12.42	16.0	0.0	0.0	0.0
3	SW 11	SW 12	29.0	200	0.200	150	1.05	1.24	1.14	25.11	29.0	0.0	0.0	0.0
4	SW 12	SW 13	20.0	200	0.200	150	1.24	1.37	1.31	19.28	20.0	0.0	0.0	0.0
5	SW 13	SW 14	15.0	200	0.200	150	1.37	1.47	1.42	15.51	15.0	0.0	0.0	0.0
6	SW 14	SW 15	30.0	200	0.200	150	1.47	1.67	1.57	33.72	0.0	30.0	0.0	0.0
7	SW 15	SW 16	13.0	200	0.200	150	1.67	1.76	1.72	15.73	0.0	13.0	0.0	0.0
8	SW 16	SW 17	11.0	200	0.200	150	1.76	1.83	1.80	13.84	0.0	11.0	0.0	0.0
9	SW 17	SW 18	17.0	200	0.200	150	1.83	1.95	1.89	22.34	0.0	17.0	0.0	0.0
10	SW 18	SW 19	11.0	200	0.200	150	1.95	2.02	1.98	15.07	0.0	11.0	0.0	0.0
	start													
1	SW 20	SW 19	18.0	200	0.200	150	0.80	0.92	0.86	12.53	18.0	0.0	0.0	0.0
2	SW 19	SW 21	26.0	200	0.200	150	2.02	2.19	2.11	37.54	0.0	26.0	0.0	0.0
3	SW 21	SW 22	18.0	200	0.200	150	2.19	2.31	2.25	27.58	0.0	18.0	0.0	0.0
4	SW 22	SW 23	17.0	200	0.200	150	2.31	2.43	2.37	27.23	0.0	17.0	0.0	0.0
	start													
1	SW 24	SW 23	13.0	200	0.200	150	0.80	0.89	0.84	8.92	13.0	0.0	0.0	0.0
2	SW 23	SW 25	10.0	200	0.200	150	2.43	2.49	2.46	16.56	0.0	10.0	0.0	0.0
3	SW 25	SW 26	13.0	200	0.200	150	2.49	2.58	2.54	22.13	0.0	13.0	0.0	0.0
4	SW 26	SW 27	14.0	200	0.200	150	2.58	2.67	2.63	24.58	0.0	14.0	0.0	0.0
5	SW 27	SW 28	12.0	200	0.200	150	2.67	2.75	2.71	21.70	0.0	12.0	0.0	0.0
6	SW 28	SW 29	8.0	250	0.250	200	2.75	2.79	2.77	15.98	0.0	8.0	0.0	0.0
7	SW 29	SW 30	13.0	250	0.250	200	2.79	2.86	2.83	26.41	0.0	13.0	0.0	0.0
	start													
1	SW 32	SW 33	15.0	200	0.200	150	0.80	0.90	0.85	10.35	15.0	0.0	0.0	0.0
2	SW 33	SW 34	10.0	200	0.200	150	0.90	0.97	0.93	7.40	10.0	0.0	0.0	0.0
	start													
1	SW 35	SW 34	23.0	200	0.200	150	0.80	0.95	0.88	16.24	23.0	0.0	0.0	0.0
2	SW 34	SW 36	16.0	200	0.200	150	0.97	1.07	1.02	12.67	16.0	0.0	0.0	0.0
3	SW 36	SW 37	16.0	200	0.200	150	1.07	1.18	1.13	13.70	16.0	0.0	0.0	0.0

S.No.	Line	No.	Length	Dia (	of Pipe	Slope		Depth		Excavation		EXCAV	ATION	
0.110.	Line	7140.	Longin	Dia	л т ърс	Оюрс	Start	End	Avg.	Depth	0.0 -1.5	1.5 - 3.0	3.0 - 4.5	4.5 - 6.0
	From	To	(mtr.)	(mm)	(mtr.)		(mtr.)	(mtr.)	(mtr.)	(cum.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)
4	SW 37	SW 38	26.0	200	0.200	150	1.18	1.35	1.27	24.44	26.0	0.0	0.0	0.0
5	SW 38	SW 39	11.0	200	0.200	150	1.35	1.43	1.39	11.15	11.0	0.0	0.0	0.0
6	SW 39	SW 30	11.0	200	0.200	150	1.43	1.50	1.46	11.64	11.0	0.0	0.0	0.0
7	SW 30	SW 40	18.0	300	0.300	250	2.86	2.93	2.89	40.25	0.0	18.0	0.0	0.0
8	SW 40	SW 41	17.0	300	0.300	250	2.93	3.00	2.96	38.85	0.0	17.0	0.0	0.0
9	SW 41	SW 42	16.0	300	0.300	250	3.00	3.06	3.03	37.30	0.0	0.0	16.0	0.0
10	SW 42	SW 43	25.0	300	0.300	250	3.06	3.16	3.11	59.72	0.0	0.0	25.0	0.0
11	SW 43	SW 44	35.0	300	0.300	250	3.16	3.30	3.23	86.54	0.0	0.0	35.0	0.0
	start													
1	SW 7	SW 44	13.0	200	0.200	150	0.80	0.89	0.84	8.92	13.0	0.0	0.0	0.0
	start													
1	SW 8	SW 44	15.0	200	0.200	150	0.80	0.90	0.85	10.35	15.0	0.0	0.0	0.0
2	SW 44	STP.	5.0	300	0.300	250	3.30	3.32	3.31	12.64	0.0	0.0	5.0	0.0
	Total		704.0							904.0	375.0	248.0	81.0	0.0
Pipe	in excav	ation de	oth											
,,00	0		(0.0 - 1.5)	(1.5 - 3.0)	(3.0 - 4.5)		(4.5 - 6.0)							
			, ,	,	,		, ,							
200 m	m Dia pip	е	375.0	192.0	0.0		0.0							
250	mm Dia p	ipe	0.0	21.0	0.0		0.0							
300	mm Dia p	ipe	0.0	35.0	81.0		0.0							

-			ABLE HOUS		SECTOR-9	2, GURUG	RAM (HARY	ANA)						
				 				Depth		Excavation		EXCAV	ATION	
S.No.	Line	e No.	Length	Dia o	of Pipe	Slope	Start	End	Avg.	Depth	0.0 -1.5	1.5 - 3.0	3.0 - 4.5	4.5 - 6.0
	From	То	(mtr.)	(mm)	(mtr.)		(mtr.)	(mtr.)	(mtr.)	(cum.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)
	start													
1	ST 1	ST 2	22.0	400	0.400	400	0.90	0.96	0.93	21.60	22.0	0.0	0.0	0.0
2	ST 2	ST 3	16.0	400	0.400	400	0.96	1.00	0.98	16.32	16.0	0.0	0.0	0.0
3	ST 3	ST 4	20.0	400	0.400	400	1.00	1.05	1.02	21.12	20.0	0.0	0.0	0.0
4	ST 4	RP-1	5.0	400	0.400	400	1.05	1.06	1.05	5.41	5.0	0.0	0.0	0.0
5	RP-1	ST 5	19.0	400	0.400	400	1.06	1.11	1.08	21.00	19.0	0.0	0.0	0.0
6	ST 5	RP-2	14.0	400	0.400	400	1.11	1.14	1.12	15.93	14.0	0.0	0.0	0.0
7	RP-2	ST 6	2.0	400	0.400	400	1.14	1.15	1.14	2.31	2.0	0.0	0.0	0.0
8	ST 6	ST 7	15.0	400	0.400	400	1.15	1.18	1.16	17.57	15.0	0.0	0.0	0.0
9	ST 7	ST8	17.0	400	0.400	400	1.18	1.23	1.20	20.45	17.0	0.0	0.0	0.0
10	ST 8	ST 9	17.0	400	0.400	400	1.23	1.27	1.25	21.03	17.0	0.0	0.0	0.0
11	ST 9	ST 10	15.0	400	0.400	400	1.27	1.31	1.29	19.04	15.0	0.0	0.0	0.0
12	ST 10	ST 11	20.0	400	0.400	400	1.31	1.36	1.33	26.08	20.0	0.0	0.0	0.0
13	ST 11	RP-3	5.0	400	0.400	400	1.36	1.37	1.36	6.65	5.0	0.0	0.0	0.0
	start													
1	ST 12	ST 13	16.0	400	0.400	400	0.90	0.94	0.92	15.62	16.0	0.0	0.0	0.0
2	ST 13	ST 15	7.0	400	0.400	400	0.94	0.96	0.95	6.99	7.0	0.0	0.0	0.0
	start													
1	ST 14	ST 15	20.0	400	0.400	400	0.90	0.95	0.93	19.60	20.0	0.0	0.0	0.0
2	ST 15	ST 16	16.0	400	0.400	400	0.96	1.00	0.98	16.35	16.0	0.0	0.0	0.0
3	ST 16	ST 16A	16.0	400	0.400	400	1.00	1.04	1.02	16.86	16.0	0.0	0.0	0.0
4	ST 16A	ST 17	26.0	400	0.400	400	1.04	1.10	1.07	28.50	26.0	0.0	0.0	0.0
5	ST 17	ST 18	16.0	400	0.400	400	1.10	1.14	1.12	18.21	16.0	0.0	0.0	0.0
6	ST 18	ST 29	16.0	400	0.400	400	1.14	1.18	1.16	18.72	16.0	0.0	0.0	0.0
	start													
1	ST 19	ST 20	17.0	400	0.400	400	0.90	0.94	0.92	16.61	17.0	0.0	0.0	0.0
2	ST 20	ST 21	17.0	400	0.400	400	0.94	0.99	0.96	17.19	17.0	0.0	0.0	0.0
3	ST 21	RP-4	7.0	400	0.400	400	0.99	1.00	0.99	7.25	7.0	0.0	0.0	0.0
4	RP-4	ST 22	5.0	400	0.400	400	1.00	1.02	1.01	5.24	5.0	0.0	0.0	0.0
5	ST 22	ST 23	20.0	400	0.400	400	1.02	1.07	1.04	21.44	20.0	0.0	0.0	0.0
6	ST 23	ST 24	7.0	400	0.400	400	1.07	1.08	1.07	7.69	7.0	0.0	0.0	0.0
7	ST 24	ST 25	12.0	400	0.400	400	1.08	1.11	1.10	13.42	12.0	0.0	0.0	0.0
8	ST 25	ST 26	15.0	400	0.400	400	1.11	1.15	1.13	17.18	15.0	0.0	0.0	0.0
9	ST 26	ST 27	15.0	400	0.400	400	1.15	1.19	1.17	17.63	15.0	0.0	0.0	0.0
10	ST 27	ST 28	14.0	400	0.400	400	1.19	1.22	1.21	16.86	14.0	0.0	0.0	0.0
11	ST 28	ST 29	13.0	400	0.400	400	1.22	1.26	1.24	16.00	13.0	0.0	0.0	0.0
12	ST 29	RP-3	6.0	400	0.400	400	1.26	1.27	1.26	7.50	6.0	0.0	0.0	0.0
13	RP-3	ST 30	2.0	400	0.400	400	1.37	1.37	1.37	2.67	2.0	0.0	0.0	0.0
14	ST 30	EXT	2.0	400	0.400	400	1.37	1.38	1.38	2.68	2.0	0.0	0.0	0.0
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S.No.	Line	e No.	Length	Dia c	of Pipe	Slope		Depth		Excavation		EXCAV	ATION	
0.110.	Line	5 IVO.	Longui	Dia	л г грс	Оюрс	Start	End	Avg.	Depth	0.0 -1.5	1.5 - 3.0	3.0 - 4.5	4.5 - 6.0
	From	То	(mtr.)	(mm)	(mtr.)		(mtr.)	(mtr.)	(mtr.)	(cum.)	(mtr.)	(mtr.)	(mtr.)	(mtr.)
	start													
1	ST 31	ST 32	20.0	400	0.400	400	0.90	0.95	0.93	19.60	20.0	0.0	0.0	0.0
2	ST 32	ST 33	29.0	400	0.400	400	0.95	1.02	0.99	29.84	29.0	0.0	0.0	0.0
3	ST 33	ST 34	29.0	400	0.400	400	1.02	1.10	1.06	31.52	29.0	0.0	0.0	0.0
4	ST 34	ST 35	29.0	400	0.400	400	1.10	1.17	1.13	33.21	29.0	0.0	0.0	0.0
5	ST 35	ST 35A	29.0	400	0.400	400	1.17	1.24	1.20	34.89	29.0	0.0	0.0	0.0
6	ST 35A	RP-5	12.0	400	0.400	400	1.24	1.27	1.26	14.93	12.0	0.0	0.0	0.0
7	RP-5	ST 36	12.0	400	0.400	400	1.27	1.30	1.29	15.22	12.0	0.0	0.0	0.0
8	ST 36	EXT	4.0	400	0.400	400	1.30	1.31	1.31	5.14	4.0	0.0	0.0	0.0
	start													
1	ST 37	ST 39	15.0	400	0.400	400	0.90	0.94	0.92	14.63	15.0	0.0	0.0	0.0
	start													
1	ST 38	ST 39	17.0	400	0.400	400	0.90	0.94	0.92	16.61	17.0	0.0	0.0	0.0
2	ST 39	EXT	3.0	400	0.400	400	0.94	0.95	0.95	2.99	3.0	0.0	0.0	0.0
	Total		671.0							744.0	671.0	0.0	0.0	0.0
Pino	in overv	ation der	nth.											
Fibe	excav	anon dep	,											
			(0.0 - 1.5)	(1.5 - 3.0)	(3.0 - 4.5)		(4.5 - 6.0)							
400 m	m Dia pip	е	671.0	0.0	0.0		0.0							
500 m	m Dia pip	e	0.0	0.0	0.0		0.0							

Discription	T			–			· -	
00p011	Type	Number		imension		Calculation	Result	UNIT
	. , , , ,	rambon	Length	Height	Breadth	Calculation	rtoout	01111
on								
M41	Rectangle	1	105.279		6.000	Length X breadth	631.674	SQ.MT
M42	Rectangle	1	28.006		5.700	Length X breadth	159.634	SQ.MT
M43	Rectangle	1	44.223		6.000	Length X breadth	265.338	SQ.M7
M44	Rectangle	1	15.512		4.571	Length X breadth	70.905	SQ.M7
M45	Rectangle	1	6.000		34.096	Length X breadth	204.576	SQ.M7
M46	Rectangle	1	12.300		6.000	Length X breadth	73.800	SQ.M7
M47	Rectangle	1	32.934		6.000	Length X breadth	197.604	SQ.M7
						Total Addition =	1603.532	SQ.MT
					ADD 10 %	FOR CURVED ROAD	160.353	SQ.MT
					Total Mett	alic Road Area (A1)=	1763.885	SQ.MT
	Area st	atement f	or HARD P	AVED RO	DAD (PAR	Г-02) (В1)		
Discription	Type	Number	D	imension		Calculation	Result	UNIT
Discription	Турс	Number	Length		Breadth	Calculation	result	OIVIII
on								
H31	Rectangle	1	6.000		12.410	Length X breadth	74.460	SQ.M7
H32	Rectangle	1	6.000		59.388	Length X breadth	356.328	SQ.M7
H33	Rectangle	1	6.000		28.700	Length X breadth	172.200	SQ.M7
H34	Rectangle	1	6.000		18.915	Length X breadth	113.490	SQ.M7
H35	Rectangle	1	6.000		7.930	Length X breadth	47.580	SQ.M7
H36	Rectangle	1	6.000		117.316	Length X breadth	703.896	SQ.MT
H37	Rectangle	1	6.000		20.632	Length X breadth	123.792	SQ.MT
H38	Rectangle	1	6.000		96.407	Length X breadth	578.442	SQ.MT
H39	Rectangle	1	6.000		28.093	Length X breadth	168.558	SQ.M7
H40	Rectangle	1	6.000		115.778	Length X breadth	694.668	SQ.M
H41	Rectangle	1	6.000		51.727	Length X breadth	310.362	SQ.M7
H42	Rectangle	1	6.000		46.759	Length X breadth	280.554	SQ.M
H43	Rectangle	1	6.000		5.640	Length X breadth	33.840	SQ.M
H44	Rectangle	1	6.000		63.310	Length X breadth	379.860	SQ.M7
H45	Rectangle	1	6.000		9.270	Length X breadth	55.620	SQ.M7
H46	Rectangle	1	6.000		19.182	Length X breadth	115.092	SQ.M7
<u> </u>				-		Total Addition =	4208.742	SQ.M1
					ADD 10 %	FOR CURVED ROAD	420.874	SQ.MT
	M43 M44 M45 M46 M47  M47  Discription  H31 H32 H33 H34 H35 H36 H37 H38 H39 H40 H41 H42 H43 H44 H45	M43 Rectangle M44 Rectangle M45 Rectangle M46 Rectangle M47 Rectangle M47 Rectangle  M48 Rectangle M49 Rectangle M49 Rectangle M40 Rectangle M40 Rectangle M41 Rectangle M43 Rectangle M44 Rectangle M45 Rectangle M46 Rectangle M47 Rectangle M48 Rectangle M49 Rectangle M49 Rectangle M40 Rectangle M40 Rectangle M41 Rectangle M41 Rectangle M42 Rectangle M43 Rectangle M44 Rectangle	M43         Rectangle         1           M44         Rectangle         1           M45         Rectangle         1           M46         Rectangle         1           M47         Rectangle         1           M47         Rectangle         1           M47         Rectangle         1           M48         Rectangle         1           M49         Rectangle         1           M40         Rectangle         1           M43         Rectangle         1           H34         Rectangle         1           H35         Rectangle         1           H36         Rectangle         1           H37         Rectangle         1           H38         Rectangle         1           H39         Rectangle         1           H40         Rectangle         1           H41         Rectangle         1           H42         Rectangle         1           H43         Rectangle         1           H44         Rectangle         1           H44         Rectangle         1           H44         Rectangle         <	M43         Rectangle         1         44.223           M44         Rectangle         1         15.512           M45         Rectangle         1         6.000           M46         Rectangle         1         12.300           M47         Rectangle         1         32.934           Area statement for HARD P           M47         Rectangle         1         6.000           Length         1         6.000           Length         1         6.000           H31         Rectangle         1         6.000           H32         Rectangle         1         6.000           H33         Rectangle         1         6.000           H34         Rectangle         1         6.000           H35         Rectangle         1         6.000           H36         Rectangle         1         6.000           H37         Rectangle         1         6.000           H38         Rectangle         1         6.000           H39         Rectangle         1         6.000           H40         Rectangle         1         6.000           H41         Rectangle<	M43	M43	M43	M43