PROJECT BRIEF

M/s Suncity Projects have got the License to build an Affordable Group Housing on a 10 Acre land at Sector 76, Gurugram. The project is going to be certified for IGBC Gold Rated Building. 24 mtr Sector roads divide the Site into 3 pockets — POCKET 'A', 'B' & 'C'. Common Services are being planned for these and the crossings at the Sector Road will be specially addressed.

The project entails the following:

- 1464 Apartments all of which are 2 BHK having a Carpet area of 54~59 Smt each approx.
- A Commercial Arcade at the Ground Floor of the Towers and a couple of independent Blocks
- A Community Centre & Creche of 2000 sft each.

Each of these Systems have been described in detail in the following pages.

WATER SUPPLY

- The Source of water supply shall be HUDA Water Supply connection. It has beedn proposed to construct underground water tank as per the capacity attached in water load chart for Domestic and Other Purpose. A common Underground Storage of Fire, Raw & Treated water of adequate capacity with suitable size of pumps shall be provided in the Pump Room in Pocket 'B'. The Fire pipes shall be provided with an additional redundant loop connection at each Sector road crossing.
- Water Supply Distribution System Domestic & flushing water shall be lifted to the overhead terrace tanks from where the water shall be supplied by gravity. As per NBC 2016 a Combined Distribution System is to be provided. In this system a combination of gravity and pressurized distribution is adopted. A few upper floor (14/13/12) are provided with a pressure booster pumping system to achieve the desired residual pressure. The lower floors are to be provided with the water balance pressure reducing valve to restrain pressure to upper limit. The OH Tanks for Commercials to be provided on their respective terraces as per Municipal Sanction.
- As/ NBC minimum recommended capacities, the underground storage tank capacity (Raw + Domestic) shall be 0.67 times of one day water requirement for Housing Towers & Commercial. The underground storage tank capacity (Recycled water placed near STP) shall also be 0.67 times of one day water requirement for Housing Towers & Commercial. The overhead storage tank capacity (for domestic) shall be 33% of one day water requirement & for flushing water over head tank capacity will also be 33% of one day requirement.

SEWERAGE SYSTEM

We have Design / Provide internal sewer and its connection to the proposed STP. A common STP of 940 KLD shall be provided in Pocket 'B' with Underground storage Tank for Treated Water. Treated water from STP i.e. Non-Potable water shall be used in Road washing, Landscaping or Garden Hydrant, Flushing etc. or other designated areas. Since the STP Treated water is proposed to be used for Flushing by adopting Dual Plumbing as per norms, it is recommended to additionally provide Ultra Filtration or ozonizer to take care of the colour and odour of the treated water and Anoxic Tank for treating Ammonia Nitrate as per new CPCB / NGT norms.

This system have been designed taking into consideration that 75% of water supply will reach the sewer multiplied by factor 3 to give the peak rate of flow.

Pipe running sewer are designed for running 1/2 full.

Minimum size of the sewer should be 200mm.

Minimum Velocities designed to ensure non silting velocity

Upto 400 mm Dia - 1m/sec.

Above 400mm Dia. - 0.80m/sec.

A design calculation chart is as per ANNEX

STORM WATER DRAINGAE

In general, the rain water from terraces and other open areas and decks shall be collected through Rain water Down take pipes and connected to catch basins. The Rain water from hard courts and landscaped area shall be collected by network open saucer drains/Pipe System and connected to the storm water manholes/channels in the complex. Provision shall be made for Rain Water Harvesting as required by the CGWA guidelines and EIA Norms .Overflow connection shall also be provided to connect excess storm water runoff in case of sudden high down pour by laying a storm water line from the proposed site and will be connected to main drain line on HUDA sector road.

Rainfall intensity for residential sectors is 1/4"hour.

Minimum Velocity

Upto 400mm Dia 0.8m/sec.

Above 400mm Dia 0.6m/sec.

Maximum velocity in case of RCC hume pipes should be 2.50m/s.

SEPCIFICATION

The Work will be carried out in accordance with the standards specification of P.H as laid down by Haryana Govt./HUDA

ROADS

Cost of road has been the estimates

STREET LIGHTING

Provision for lighting on the surrounding area has been made.

HORTICULTURE

Estimates and details of plantation, Landscaping, signages etc has been included.

RATES

The estimate has been based on the present market rates.

COST

The cost of the scheme, including cost of all the services works out to be Rs.-_____ Including 3% contingencies and 49% departmental charges. Price escalation, unforeseen, Admin Charges.

For. SUNCITY PROJECTS PVT. LTD.

Authorized Signatory



			AMOUNT IN LAKHS	
SU	B WORK NO. I	WATER SUPPLY	300	
SU	B WORK NO. II	SEWERAGE SCHEME	270	
SU	B WORK NO. III	STORM WATER DRAINAGE	100	
CII	P WORK NO IV	POAD NETWORK	340	-
30	B WORK NO. IV	ROAD NETWORK	340	
SU	B WORK NO. V	STREET LIGHTING	19	
SU	B WORK NO. VI	HORTICULTRE	6	
SU	B WORK NO. VII	MAINTENANCE OF SERVICES		
		FOR 10 YEARS INCLUDING		
		REPARING OF ROAD FOR 1ST 5		
		YEARS (AS PER HUDA NORMS)	450	
		TOTAL	1,485	

ROMIT JAINAZA
Regn. No. CA188/11424

	SUB WORK NO -01 (AB	STRACT OF COST)	T	
	WATER SUPPLY			
			AMOUNT (RS.)	
1	SUB HEAD NO. 01	HEAD WORKS	56,14,000	
2	SUB HEAD NO. 02	PUMPING MACHINERY	80.50.000	
_	SOBTILAD NO. 02	FOWFING WACHINERY	89,50,000	(1)
	SUB HEAD NO. 03	RISING MAIN		
		(DOMESTIC+FLUSHIN		4
		WATER SUPPLY)	28,12,000	
	SUB HEAD NO. 04	FIRE RING MAIN	18,75,000	
	SUB HEAD NO. 05	IRRIGATION	5,80,000	
		TOTAL	1,98,31,000	
	SUB WORK NO. VII	ADD 3% CONTIGENCIES &		
_		PH CHARGES	5,94,930	
		TOTAL	2,04,25,930	
		ADD 49% DEPARTMENTAL CHARGES, PRICE ESCALATION, UNFORESSEN,		
		ADMIN	1,00,08,706	
		TOTAL	3,04,34,636	
	1 0	SAY	300 la	acs /

Regn. No. CA/88/11424

	The same of the sa	SING SCHEME	_	
	SUB WORK NO -01 SUB HEAD NO -01		HEAD WORKS	
S.NO	DESCRIPTION	QUANTITY	RATE "RS"	AMOUNT "RS"
6	Construction of UG Tank 1604 KL (fire 2No- 75Kl + 2no Raw 123Kl+153Kl +2No Domestic 123Kl+153Kl + Flushing 350KL)	1604	3500	5,614,000
	ADD 49% DEPARTMENTAL C	HARGES, PRICE ESCAL	ATION, UNFORESSE	N, ADMIN
	ADD 49% DEPARTMENTAL C			
		TOTAL		5,614,00

5,614,000

56 lac

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RESN. No. CAISSINAZA

RESN. No.

	SUB WORK NO -01 SUB HEAD NO -02	ISING SCHEME	PUMPING MACHINA WATER SUPPLY & FIL	
			WATERSOTTET & TH	T
S.NO	DESCRIPTION	QUANTITY	RATE "RS"	AMOUNT "RS"
1	Providing and installing electricity driven pumping set capacble of deliverying 500lpm against a total head 70M complete with motor and its accessories. For Domestic	3	275000	825,000
2	Providing and installing electricity driven pumping set capacble of deliverying 500lpm against a total head 70M complete with motor and its accessories. For Flushing	2	250000	500,000
3	Provision and installing 160KVA DG set each for common area, lifts, External light etc	2	1500000	3,000,000
4	Providing and installing pumping set of following capacities for fire protection			
	180 LPM	2	75000	150,000
	2280 LPM at 125M head DG pump	2	850000	1,700,000
	2280 LPM at 125M head Hydrant pump	2	700000	1,400,000
5	Provision for foundation and errection of pumping machinery (LS)		125000	125,000
6	Provision for pipes, valves and special inside boosting chamber (LS)		350000	350,000
7	Provision of electrical panel connection for pumps (fire + Water) (LS)		750000	750,000
8	Provision for carriage of material and other unforseen items etc (LS)		150000	150,000
			TOTAL "RS"	8,950,000
	Carry Over to Final Abstract of Cost		TOTAL RS	8,950,000
				0,550,000

ROHIT JAIN Regn. No. CA/88/11424

-		HOUSIN	IG SCHEME		
	SUB WORK NO -01			WATER SUPPLY RISH	NG MAIN
	SUB HEAD NO -03			DOMESTIC & FLUSH	ING
.NO	DESCRIPTION	LIAUT	OLIANITITY.	0.475 (10.6)	AAAAAAAA TI'AAA
INO		UNIT	QUANTITY	RATE "RS"	AMOUNT "RS"
1	Providing laying, joiting and testing				
i	pipeline complete in all respect.	10.00	1200	050	
	100MM dia GI pipe	Mtr.	1300	950	1,235,000
ii	65MM dia GI pipe	Mtr.	325	600	195,000
	Providing, laying and testing pipe lines	1			
2	including cost of complete in all respect. (From HUDA supply) 100MM dia.	Mtr.	200	1050	210,000
3	Providing and fixing indicating plates for sluice valve and air valves.	No.	6	15000	90,000
	Provision of sluice valve inluding cost of				
4	surface bos and masonary chamber etc.				4
	complee in all respect. 100mm dia.	-			
	100 mm Dia	No	10	15000	150,000
	65 mm Dia	No	24	8000	192,000
5	Providing and fixing of air release valve and scour valve	No.	1	15000	15,000
	Provisio of carriage material and other	-			
6	unforeseen items (L/S)			200000	200,000
7	Provision of road cutting and making good				
/	to orignal condition (LS)			150000	150,000
8	Making watr supply connection on master			250000	250,000
officiality of the same	road. (L.S)			23000	230,000
9	Provision of water meter			125000	125,000
	*			TOTAL "RS"	2,812,000
	Carry Over to Final Abstract of Cost				2,812,000

Regn. No. CA/88/11424

The state of the s	ICUD WOOMAND OF	SCHE	VIE T		
	SUB WORK NO -01			FIRE RING MAIN	
	SUB HEAD NO -04	-			
S.NO	DESCRIPTION	UNIT	QUANTITY	RATE "RS"	AMOUNT "RS"
1	Providing laying, joiting and testing MS pipe lines for fire rising main				
i	150mm Dia	Mtr.	750	1700	1,275,000
įį	80mm Dia	Mtr.	20	750	15,000
2	Providing and fixing of valve 150mm Dia	Mtr.	2	15000	30,000
3	Providing and fixing fire Brigade and draw off point.	No.	6	15000	90,000
4	Providing for carriage of material as other unforeseen items (LS)			250000	250,000
5	Providing for indicating plates	No.	10	1500	15,000
6	Provision for road cutting and making good to its orignal condition (LS)			200000	200,000
THE THE COUNTY OF THE CO				TOTAL "RS"	1,875,000
	Carry Over to Final Abstract of Cost				1,875,000

ROHIT JAIN ROEN. No. CA/88/11424

	SUB WORK NO -01	T	T	IRRIGATION	T
netter kontra se post e	SUB HEAD NO -06				
S.NO	DESCRIPTION	UNIT	QUANTITY	RATE "RS"	AMOUNT "RS"
1	Providing laying, joiting and testing UPVC pipe line confirming to is 4985 including cost of Excavation etc. complete in all respect.				
i	32mm Dia	Mtr.	100	200	20,000
ii	50mm Dia	Mtr.	100	400	40,000
iii -	65mm Dia	Mtr.	100	500	50,000
iv	100mm Dia	Mtr.	400	550	220,000
2	Providing and fixing 32 mm dia Irrigation hydrant valve complete in all respect.	No	20	5500	110,000
3	Provision for carriagge of Materials and other as Unforseen items. L.S			50000	50,000
4	Provision for cutting of roads making goods to its in original condition. LS			75000	75,000
5	Providing and fixing of air release valve and scour valve L.S			15000	15,000
				. TOTAL "RS"	580,000
	Carry Over to Final Abstract of Cost		SAY	Rs	580,000

Regn. No. CA/88/11424

SUB WORK II - SEWERAGE SCHEME

ON.	DESCRIPTION	UNIT	QUANTITY	RATE "RS"	AMOUNT "RS
	Providing, jointing, cutting and testing and lowering into including cost of				
1	Excavation ,bed concrete,cost of manholes				
a)	S.W pipes 300 mm i/d avg. Depth 2-6 M	Mtr.	1000	2300	2,300,00
2	Provision for carriage for carriage of materials and other unforseen items (LS)				200,000
3	Provision for vent pipe as per PH standards (LS)				150,000
4	Provision for lighting and watching.				50,000
5	Provision for making HUDA /connection with ecisting sewer on master road (LS)				200,000
6	Cost of 940 KL STP (LS) 0.94 MLD upto territory level (LS)				14,100,000
7	Provision for S.W pipe 150mm dia from STP to outfall 150 mm dia @ rs 2200/- , 150 meters length	Mtr.			330,000
8	Provision of road cutting and making good to orignal condition (LS)				250,000
				TOTAL	17,580,000
		L	ADD: 3% coi	ntigencies & PH Charges	527,400
				TOTAL	18,107,400
	ADD: 49% Departi	mental	charges , price esca	alation unforseen admin	8,872,626
				TOTAL	26,980,026
				SAY	~ ^ 270

ROHIT JAIN Regn. No. CA188/1142

SUB WORK III - STORM WATER SCHEME

S.NO	DESCRIPTION	UNIT	QUANTITY	RATE "RS"	AMOUNT "RS"
1	Providing and laying STORM WATER drain pipe with sfrc cover, excavation etc. Complete in all respect.				
	Provision for 400 mm dia pipe NP3 RCC pipe	Mtr.	1200	2500	3,000,00
2	Provision for Road Gully with pipe connection		168	4000	672,00
3	Provision for rain harvesting arrangement (Injection Bore Hole Perforated Pipe)	No	9	250000	2,250,000
4	Provision for carriage of materials	L.S			250,00
, 5	Provision for connection with HUDA on master road	L.S			150,00
6	Provision for Timbering & Shoring	L.S			100,00
7	Provision for lighting , watching & other unforseen items	L.S			100,000
			ADD: 3% con	TOTAL	6,522,000 195,660
				TOTAL	6,717,660
	ADD: 49% Departr	nental	charges , price esca	lation unforseen admin	3,291,653
				TOTAL	10,009,313
				SAY	_ 100

Rosi No. CAISSIII 424
Regn. No. CAISSIII 424

PROJECT	PLAN OF AFFORDABLE GROUP HOUS NO.34 OF 2018 OF DATED 31.05.2018 COMPLEX BEING DEVELOPED BY SUN	B) IN SECTO	R-76 G	SURGAON N	10.0 AC	RES (LIESENCE R URBEN
Sub Wor	k IV- ROAD WATER NETWORK			-		
NO.	DESCRIPTION	QUANTITY	UNIT	RATE (RS/UNIT)		TAUOMA
1	Provision for levelling and earth filling	10	ACDE	150000	1-	4.500.000
1	as Per site condition	10.	ACRE	150000	Rs.	1,500,000
2	Cost of Road Lay:				++	
(i)	260 mm thick GSB			T		
(ii)	250 mm thick WMM				+	
(iii)	50 mm thick BM	AND REAL PROPERTY AND AND AND ADDRESS.				* ***********************************
(iv)	42 mm, thick BC					
	AS PER REVISED NORMS OF HUDA			İ	1	
as of his account of house regarding a good region	Road area + Pavement area + Parking area	16158.9	SQM	1200	Rs.	19,390,680
3	Provision for kerb and channels of CC	1180	MTRS	600	Rs.	708,000
~	(1:1.5:3)	1100	IVITAG	000		708,000
4	Provision for making approach to		-		Rs.	300,000
	each block and Pavement LS					
5	Provision for guide map and other	-			Rs.	50,000
***************	unforseen items (LS)					
6	Provision for traffic light				Rs.	100,000
7	Provision for carriage of Material (LS)				Rs.	100,000
				TOTAL	Rs.	22,148,680
	ADD 3% CONTIGENCIES & PE CHARGES	_			Rs.	664,460
				TOTAL	Rs.	22,813,140
	ADD 49% OF Departmental charges , price excalation unforseen , Admin.				Rs.	11,178,439
				TOTAL	De	33 004 570
				HUTAL	Rs.	33,991,579

SAY

ROHITUJAIN Regn. No. CA/88/11424

SUB WORK V - STREET LIGHTING

S.NO	DESCRIPTION	UNIT	QUANTITY	RATE "RS"	AMOUNT "RS"
1	Providing for street lighting with underground cabling on road as per standard specification of HBVN 10.0 acres @ 125000/-				1,250,000
		1		TOTAL	1,250,000
		А	DD: 3% conti	gencies & PH Charges	37,500
				TOTAL	1,287,500
	ADD: 49% Departmental cl	narges	, price escala	tion unforseen admin	630,875
				TOTAL	1,918,375
				SAY	19

19 lac POLIT JAINALA Regn. No. CA/88/11/424

PROJECT	PLAN OF AFFORDABLE GROUP HOUSING SCHEME MEASURIN							
	31.05.2018) IN SECTOR-76 GURGAON MANESER URBEN COMPLEX BEING DEVELOPED BY SUNCITY PROJECTS PVT.							
	LTD							
SUB WOR	L RK VI - HOTICULTURE							
		T.	Г	T	TT	A STATE OF THE STA		
NO.	DESCRIPTION	QUANTITY		RATE		AMOUNT		
1	Development of lawn aera (organized green of 6380.17 sqm OR 1.6 ACRE)		-					
a)	Trenching the ordinary soil up to dept of 60 cm including removal and stacking serviceable material and disposing of by spreading and levelling within a lead of 50 mm and making up the trenches area to proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth manure	1						
b) ·	Rough dressing of turfed aera		_	 	+-			
c)	Grassing with " DOOB GRASS " including watering and maintenance of laws for 30 days till the grass from A thick lawn , free from weeds and fit for moving in rows 7.5 M Apart in either direction (Acres)		ACRE	150000	Rs.	240,000		
2	Provision of trees, guards and planting trees along road at 12	-		-	+			
	M intervals							
	TOTAL ROAD LENGTH	1180		-	+			
	NO. OF TREES 1180/12	98.33						
		100	SAY					
	Additional	25						
		125	SAY					
	Excavation		-	60	Rs.			
	Manure			90	Rs.			
	Tree plant			150	Rs.			
	Tree Guard			1000	Rs.			
	TOTAL			1300	Rs.			
	125 Nos @ 1300/-				Rs.	162,500		
				TOTAL	Rs.	402,500		
	ADD 3% contigencies P.H. charges				Rs.	12,075		
		TOTAL		TOTAL	Rs.	414,575		
	Add 49 % Deptt. Charges, Price escalation Unforseen, Admn.				Rs.	203,142		
		TOTAL						
		-		TOTAL	Rs.	617,717		
			-	JAY		- 6		
-		L		1	1			

ROBIT CAISSINAZA
ROBIN NO. CAISSINAZA

PROJECT	PLAN OF AFFORDABLE GROUP HOUSING SCHEME MEASURING OF 10.0 ACRES (LIESENCE NO.34 OF 2018 OF DATED 31.05.2018) IN SECTOR-76 GURGAON MANESER URBEN COMPLEX BEING DEVELOPED BY SUNCITY PROJECTS PVT. LTD	
Sub Worl	VII- M/C CHARGES FOR SERVICES & RESURFACING OF ROADS	
S. No.	Description	Amount (lacs Rs.)
1	Providing of M/C charges for water supply, Storm water drainage, sewerage, Roads, Street lighting, Horticulture etc. complete in all aspect, including Operational and establishment charges as per HUDA norms for 10 years completion	
-	10.0 acres @7.5 lakhs per acre	75.00
2	Providing of resurfacing of roads after 5 years 32 mm thick BC 16158.9 sqm @ Rs.600/sqm	96.95
3	Providing of resurfacing of roads after 10 years with 40 mm DBM & 32 mm thick BC. 16158.9 sqm @ Rs.750/sqm	121.19
	Total	293.14
	Add 3 % contingencies & P E Charges	8.79
	Total	301.93
	Add 49 % Deptt. Charges, Price escalation Unforseen, Admn.	147.95
	Total	. 449.88
	SAY Rs. (LACS)	450

449.88 450 LA 450 LA Regn. No. CA/88/11424

	A	ordable	епои	sing at Sec	ctor /6 for	M/s Sur	icity Proje	ects Ltd.	Contract of the Contract	
	WA"	IER RE	QUIRI	EMENT CA	LCULATIO	N (AS I	PER HUD	A NORMS)		
S.NO.	USAGE	Area	Total No. of Units	Population @ Per Person Per Unit As per NBC	Total Population	Total Water Demand	Gross Water Requirem ents (KLD)	Domestic	Flushing Water Requirement (KLD)	Waste Water @ 70% (Doi & 100% (Flu.)
							Α	B=70% OF A	C=30% OF A	
	Residents (LPCD)					A/50735192	155.25	108.68	46.58	70%
	Creche/Community Hall/ Commercial (LPCD)						45	31.50	13.50	70%
A	APARTMENTS									
1	RESIDENTS		1464	5	7320	155.25	1136.43	795.50	340.93	897.78
	TOTAL FOR APARTMENTS				7,320		1,136.43	795.50	340.93	897.78
					,					
В	CRECHE & COMMUNITY				,					
1 .	CRECHE	189.75	53/9/52	1P/3 Sq.Mtr	63	45	2.84	1.98	0.85	2.24
2	COMMUNITY FOR CRECHE & COMMUNITY	189.75	\$100 A.C.	1P/3 Sq.Mtr	63	45	2.84	1.98	0.85	2.24
TOTAL	FOR CRECHE & COMMUNITY		L		126		5.67	3,96	1.70	4.47
С	COMMERCIAL					Ores Sayers and American				
	Pocket A				ı — — —					
1	COMMERICAL (GF)	666.26	SAL - FOR	1P/3 Sq.Mtr	222	45	9.99	6.99	3.00	7.89
2	COMMERICAL (FF)	253.78		1P/6 Sq.Mtr	42	45	1.89	1.32	0.57	1.49
	Pocket B								5.07	11.10
1	COMMERICAL (GF)	1525.83	100	1P/3 Sq.Mtr	509	45	22.91	16.03	6.87	18.09
2	COMMERICAL (FF)	0.00		1P/6 Sq.Mtr	0	45	0.00	0.00	0.00	0.00
	Pocket C									
1	COMMERICAL (GF)	580.85	100	1P/3 Sq.Mtr	194	45	8.73	6.11	2.62	6.90
2	COMMERICAL (FF)	0		1P/6 Sq.Mtr	0	45	0.00	0.00	0.00	0.00
	TOTAL FOR COMMERCIAL	3026.72		W	967		43.52	30.45	13.06	34.38
	TOTAL OF THE COMPLEX				8,413		1,185.62	829.91	355.69	936,63
	TOTAL DOMESTIC WATER REQUIREMENT PER DAY (NON-RECYCLED WATER)						KLD	829.91		
						SAY	KLD	830.00		-
	TOTAL FLUSHING WATER REQUIREMENT PER DAY (RECYCLED WATER)						KLD		355.69	Arrana de mante de consensa
						SAY	KLD		360.00	
	CAPACITY OF SEWERAGE TREATMENT PLANT @ 100% OF WASTE WATER GENERATED AS PER HUDA NORMS									936.6
						SAY	KLD			940.0
	RECYCLED WATER AVAILABLE FROM STP @ 80% OF WASTE WATER GENERATED						KLD		752,00	
	WATER REQUIREMENT FOR HORTICULTURE - 6380.17Smt @ 3.1 LTR/Sq.Mtr (During Summer)						KLD		19.78	
	MAKE-UP WATER REQUIREMENTS FOR COOLING TOWERS								Nil	1

Regn. No. CA/88/11424

Flushing (KL) @ 67% of 1 requirem %19 day ent Domesti (KL) @ 33% of 1 require 33.3% c UGT ment day 3 33.3% (KL) @ 33% of 1 require Water ment UGT day Fire UGT (KL) (KL) @ 33% of 1 Domesti | Flushing requirem day ent 10 9 10 require (KL) @ 33% of 1 COHT day 23 23 22 23 Fire OHT 2 (KL 5 BREAK UP OF WATER REQUIREMENT CALCULATION (AS PER HUDA NORMS) (mod) %02 Water @ 8 100% 68.68 4.24 0.00 4.24 74.76 (Flu.) 70.52 80.34 80.34 80.34 80 3.66 5.15 2.24 4.47 78.31 70% %02 88 Affordable Housing at Sector 76 for M/s Suncity Projects Ltd. Requiremen C=30% OF Flushing t (KLD) 46.58 Water 26.08 26.78 13.50 1.39 0.85 29.74 1.61 0.00 1.61 28.39 58.13 30.51 30.51 1.70 30.51 Requiremen B=70% OF Domestic A 108.68 t (KLD) Water 60.86 62.49 31.50 1.32 3.75 66.24 135.62 71.18 71.18 1.98 69.38 71.18 3.96 Requireme nts (KLD) 155.25 Water 101.69 101.69 Gross 86.94 5.36 0.00 5.36 94.63 101.69 99.14 89.27 1.89 2.84 5.67 102 102 4 45 Demand (LPD) per otal Water 155.25 person 155.25 155.25 155.25 45.00 45.00 45.00 Population Total 575 119 694 1525 655 655 **655** 655 655 655 560 103 126 831 83 83 0 Pocket A Pocket B 1P/3 Sq.Mtr 1P/3 Sq.Mtr 1P/3 Sq. Mtr 1P/6 Sq. Mtr 1P/3 Sq.Mtr 1P/6 Sq.Mtr Units Unit As per Population No. of Person Per @ Per 5 2 2 2 Total 115 112 131 31 309.81 253.78 563.59 189.75 356.45 TOTAL FOR COMMERCIAL 356.45 Area Residents (LPCD)
Creche/Community Hall/
Commercial (LPCD) TOTAL FOR APARTMENTS TOTAL FOR COMMERCIAL TOTAL FOR TOWER A2 TOTAL FOR APARTMENTS
TOTAL FOR TOWER B2 TOTAL FOR CRECHE & TOTAL FOR TOWER A1 TOTAL FOR APARTMENTS TOTAL FOR POCKET A COMMUNITY TOTAL FOR APARTMENTS TOTAL FOR TOWER B1 CRECHE & COMMUNITY COMMERICAL (GF) COMMERICAL (GF)
COMMERICAL (F) APARTMENTS RESIDENTS APARTMENTS RESIDENTS **APARTMENTS** APARTMENTS CRECHE RESIDENTS RESIDENTS S.NO. USAGE 2 Tower A1 Tower A2 Tower B2 TOWER Tower B1

Total General Population Total General Population Total Water	Population Population Population Population Population Population Person Per Population Person Per Population Person Per Population Person Person Person Person Person Person Person Person Person Population Person Person Person Population Person Person Person Person Population Person Person Person Person Population Person Person Person Person Person Population Person Person Person Person Population Person Person Person Population Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person Person	Total Water Cross	Total Query Population Total Water Gross Domestic Query Population Demand Demand Requirement Requirement Person Per Population Demand Demand Requirement Person Per Population Demand Demand Requirement Person Demand Requirement Person Per Population Demand Requirement Requirement Person Per	Total Water Gross Domestic	Population Pop	Total Command Area No. of Person Perso	Total Water Area	Total Propulation Propul	Total Propulation Propul	Total Area No. of Person Population Total Water
Area No. of Person Per Total (a) Person Per Population NBC (b) Person Per Population NBC (c) Person P	Area No. of Person Per No. of Person Person No. of Person Person Person Person NBC	Area No. of Person Per Total Water Gross No. of Person Per Population (LPD) per Requiremend NBC	Area No. of Person Per Population (LPD) per Requireme Requiremen Units Unit As per Population (LPD) per Requireme Requiremen NBC (LPD) per Requiremen Requiremen Units Unit As per Population (LPD) per Requiremen Requiremen NBC (ESS 155.25 101.69 71.18 (ESS 197.84	Area No. of Person Per Total Water Gross Domestic Flushing Water Units Unit As per Population (LPD) per Requiremen Requiremen Requiremen Requiremen Person Per Population (LPD) per Requiremen Requiremen Requiremen Requiremen Requiremen Requiremen Person Per Population (LPD) per Proposed Person Per Population (LPD) per Population (LPD) per Proposed Person Per Population (LPD) per Proposed Person Person Per Proposed Person Per Proposed Person Per Proposed Person Pe	Total Population Total Water Requirement Population Total Water Population LPD para Requirement Population LPD para Requirement Register R	Ariea No. of Person Per Population (LPD) per Popula	Total Copy	Total Water Control Water	Total Water Propulation Contact Contac	Acta Acta Acta Acta Acta Acta Acta Acta
Oppulation Q Per Per Population	Population (@ Per Population Total Water @ Per Person Per Population (LPD) per Person Per Population (LPD) per Population (L	Population NBC Total Water Demand Person Person Person Person NBC Total Demand Person Nater Demand Person Person Person (LPD) per Requirements (LPD) per Person NBC Total Demand Person Nater Nater Nater NBC Total Demand Person Nater Nater Nater NBC Total Demand Person Nater Nater Nater Nater Nater NBC Total Demand Nater Nate	Population (@ Per Cost) Total Water Demand Person Per Population (LPD) per Requiremen Person Person Person (LPD) per Requiremen Person Pe	Population Office Population Office Person	Population (@ Per or Total Water (Der) part of the population (LDP) per son per	Population Pop	Population Pop	Population Pop	Total Water Corosa Domestic Flushing Waster Corosa C	Propulation
Total Population 655 655 655 655 655 655 655 655 655 65	Total Water Total Demand Population (LPD) per 655 655 155.25 655 655 655 655 655 655 655 655 655 655	Total Water Gross Total Demand Water Population (LPD) per Requireme person nts (KLD) 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 101.69 655 155.25 103.24 665 155.25 103.24 665 155.25 103.24 665 155.25 103.24 665 155.25 103.24 665 155.25 103.24 665 103.24 665 103.24 665 103.24	Total Water Gross Domestic Nater Population (LPD) per Requireme Requirement person nts (KLD) (LPD) per Requirement (LPD) per Require	Total Water Gross Domestic Flushing Water Water Population (LPD) per Requiremen Requirement Person nts (KLD) t	Total Water Gross Domestic Flushing Waster Population (LPD) per Requiremen Region 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Total Water (Propulation Person In KLD)	Total Water Gross Domestic Flushing Waster Domestic Pushing	Total Water Gross Published Person Ins (KLD) Gros	Total Water Gross Purples of Control Flushing Purater Gross Purples of Control Flushing Purples of Control Flushin	Total Water
655 655 655 655 655 655 655 655 655 655	Total Water otal Unition (LPD) per person (LPD) per perso	Total Water Gross Water Ulation (LPD) per Requireme person nts (KLD) perso	Total Water Gross Domestic Water wilation (LPD) per Requireme Requirement (LPD) per Requ	Total Water	Total Water Gross Domestic Flushing Waster Water Water Water Water Water (LPD) per Requirement Require	Total Water Gross Domestic Flushing Waste Goff Water (PD) per Requiremen Re	Total Water Gross Domestic Flushing Waste OFT	Total Water Person in the filting Person in	Total Water Cross	Total Water Gross Domestic Requirement Requirement
	Total Water Demand (LPD) per person 155.25 155.25 155.25 155.25 155.25 155.25 155.25 155.25 155.25	Total Water Gross Demand (LPD) per Requireme person nts (KLD) 155.25 101.69 101.69 101.69 102 22.91 45.00 0.00 0.00 22.91 45.00 155.25 101.69 101.69 105.25 101.69 103.24	Total Water Gross Domestic Water Water (LPD) per Requirement Requirement (LPD) per nts (KLD) (KL	Total Water Gross Domestic Flushing Water Water Water Water Water CLPD) per Requiremen Requiremen person nts (KLD) t (Total Water Gross Domestic Flushing Waster (LPD) per Requiremen Requiremen Requiremen Requiremen Responsible (KL) (KLD) (Flus) (KLD) (Flus) (KLD) (Flus) (KLD) (Flus) (KLD) (Flus) (KLD) (Flus) (KLD) (KLD) (Flus) (KLD)	Total Water Gross Domestic Flushing Gross Domestic Flushing Gross Domestic Pushing Gross Domestic CLPD) per Requiremen Representation Register Regist	Total Water Gross Domestic Flushing Waster (C OHT OHT COHT OHT CHIS) Person ints (KLD) (KL	Total Water Gross Domestic Plushing Waste (COHT COHT OFFT) Total Water Requirement Requir	Total Water Gross Domestic Plushing Waste (LPD) per Mater (March Plushing Person ints (KLD) (KLD	Total Water Gross
		Gross Water Requirements (KLD) 101.69 101.69 101.69 101.69 101.69 101.69 101.69 101.69 101.69 101.69 103.24 103.24 103.24 103.24 103.24 103.24 103.24 103.24	Gross Domestic Water Water Water Water Requiremen It (KLD) It (KLD	Gross Domestic Flushing Water Water Water Water Water Water Requiremen Requiremen nts (KLD) t	Gross Domestic Flushing Waster Water Water Water Water Water To% (Dom) (KL) (Flu.) (Fl	Gross Water Requirement & Waster Water Water Water Water (KLD) (KL	Gross Water Water (KLD) Plushing Water (KLD) Waster (KLD) Plushing (KLD) Waster (KLD) Plushing (KLD) Waster (KLD) Plushing (KLD) <t< td=""><td> Domestic Requirement Requirement Requirement Requirement (KL)</td><td>Gross Water Water Ints (KLD) Domestic Water Water Fequiremen (KLD) Flushing (KLD) Waster (KLD) Domestic (KLD) Flushing (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) Flushing (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) COPT (KLD) COPT (KLD)</td><td> Content Cont</td></t<>	Domestic Requirement Requirement Requirement Requirement (KL)	Gross Water Water Ints (KLD) Domestic Water Water Fequiremen (KLD) Flushing (KLD) Waster (KLD) Domestic (KLD) Flushing (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) Flushing (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) COPT (KLD) OHT (KLD) COPT (KLD) OHT (KLD) Price OHT (KLD) COPT (KLD)	Content Cont

Regn. No. CA188/11424

	7			<u> </u>	T			T-	7				·			·		7			
Flushing UGT (KL) @ 67% of 1 day requirem			The production									234									1.
C UGT (KL) (@ 33% of 1 day require												271									3
Nater UGT (KL) @ 33% of 1 day require												271									
Fire UGT (KL)												150									
Flushing OHT (KL) @ 33% of 1 day requirem			8							8											
c OHT (KL) @ 33% of 1 day require			19							19											
Fire OHT (KL)			2							5											
Waste Water @ 70% (Dom) 8,100% (Flu.)	00.0	2.60	63.30		60.70	60.70	430	0.00	4.30	65.00	128.30	918.53				918.53	920.00				
Flushing Water Requiremen t (KLD)	0.00	0.99	24.04		23.05	23.05	1.63	0.00	1.63	24.68	48.72	348.82							734.82	20.12	NIL
Domestic Water Requiremen t (KLD)	0.00	2.30	60.99		53.79	53.79	381	00.00	3.81	57.60	113.69	813.87	813.87	810.00							
Gross Water Requireme nts (KLD)	00.00	3.29	80.14		76.85	76.85	5.45	00.00	5.45	82.30	162.43	1,162.72	KLD .	KLD		KLD	KLD		KLD	KLD	
Total Water Demand (LPD) per person	45.00				155.25		45 00	45.00						SAY			SAY				
Total Population	0	73	268		495	495	121	0	121	616	1184	7,904									
Population @ Per Person Per Unit As per NBC	1P/6 Sq.Mtr				5		1P/3 Sa Mtr	1P/6 Sq.Mtr													
Total No. of Units					66							1464									
Area		219.08					361 77		361.77												
	L (FF)	DMMERCIAL		S		TOTAL FOR APARTMENTS			OMMERCIAL	TOTAL FOR TOWER C2	TOTAL FOR POCKET C	TOTAL OF THE COMPLEX	TOTAL DOMESTIC WATER REQUIREMENT PER DAY		CADACITY OF STD @ 100%	OF WASTE WATER GENERATED AS PER HUDA			RECYCLE WATER AVAILABLE FROM STP @ 80% OF WASTE WATER GENERATED	WATER REQUIREMENT FOR HORTICULTURE - 6489.03 Smt@ 3.1 LTR/Sq.Mtr (During Summer)	ATER NTS FOR
S.NO. USAGE	COMMERICAL (FF)	TOTAL F	TOT	APARTMENTS	RESIDENTS	TOTAL F	COMMERCIAL	COMMERICAL (FF)	TOTAL F	TOT/	TOT	TOTAL C	TOTAL DOMESTIC WATE REQUIREMENT PER DAY		OADACITY	OF WASTE WATER GENERATED AS PE	NORMS		RECYCLE WATER AV FROM STP @ 80% OF WATER GENERATED	WATER REQ HORTICULTU Smt@ 3.1 LTI Summer)	MAKE-UP WATER REQUIREMENTS FOR
S.NO.	2				-		-	T	П										-		
TOWER							Tower C2														

ROHIT SOLLAR

Description Communication					
Proposed line dis 100 mm		00			
Floriton Head Loss/1000M 13.47 Mir		200	9		
Frechen Head Loss/1000M 1347 Mr 1347 Mr Frechen Head Loss/1000M 200 Mr 200 Mr Trabal Head Loss 27 mir 220 Mr Trabal Head Loss 27 mir 22 mir Mydean Pump 2 mir 22 mir Pump from 2 mir 22 mir Obes Head required 2 mir 120 Pump from 2 mir 120 Pump from Diesel Engine Driven Pump Pump from 2 mir Jockey pump Pump from 2 mir Pump from Diesel Engine Driven Pump Pump from 2 mir Pump from Diesel Engine Driven Pump Pump from 2 mir Pump from Diesel Engine Driven Pump 2 mir 1 mir Pump from Diesel Graph Pump from 2 mir Diestrage of Dump Pump from 2 mir Pump from Diesel Register 3 mir 3 mir Total Head losses 3 mir 3 mir Per Head required 2 mir 2 mir Pump from the diese 3 mir 3 mir Per Head required <td></td> <td>100 mm</td> <td></td> <td></td> <td></td>		100 mm			
Finch Velocity 13.47 Mit					
Friction Head Loss/1000M 13.47 Mir 2.00	d Flow Velocity	0.81 Mtr.			
Total Head Loss Pumps for Interpretation P					
Pumps for file Head Loss 27 mt Int Pumps for file protection Locaston Nos. Discharge (LPM) Head in Mir. Hydrant Pump Pump room 2 2280 120 Diesel Engine Dirven Pump 2 2280 120 Diesel Engine Dirven Pump 2 2 280 120 Diesel Engine Dirven Pump 2 2 280 120 Diesel Engine Dirven Pump 2 180 120 Diesel Engine Dirven Pump 2 2 280 120 Pump rookery pump 2 18 120 120 Pump rookery pump 2 18 120 120 Princip Line Lead required 15 18 18 18 Princip Lead required 2 24.2 18 18 18 Permission Duration per clay 2 2 2 2 2 18 18 Pumping Duration per clay 2 2 2 2 2 2 2 <td>d Length of line</td> <td>200 Mtr.</td> <td></td> <td></td> <td></td>	d Length of line	200 Mtr.			
Pumps for fire protection Nos. Discharge (LPM) Head in Mitr. Pumps for fire protection Pump room 2 2200 120 Discharge Driven Pump Pump room 2 2200 120 Discele Engine Driven Pump Pump room 2 180 120 Jockey pump Pumps for domestic water supply 8 Hrs 8 Hrs 150 120 Pumping Duration per day Pump room 55 Mr. 151 Mr. 151 Mr. 151 Mr. 152 Mr. Fincion Head Losse 950 LPM 24.62 HP 152 HP say		2.7 mtr			
Hump room 2 2280 120 Desel Engine Driven Pump Pump room 2 2280 120 Desel Engine Driven Pump Pump room 2 2280 120 Desel Engine Driven Pump Pump room 2 180 120 Desel Engine Driven Pump Pump room 2 180 120 Desel Engine Driven Pump Pump room 18 Hrs 180 Desel Engine Driven Pump room 18 Hrs 180 Desel Head Losse 18 Hrs 180 Desel Head Losse 18 Hrs 180 Desel Head Losse 18 Hrs 180 Desel Head Cost 18 Hrs 18 Desel Head Cost 18	Pumps for fire protection		Discharge (LPM)	Head in Mtr.	
Diesel Engine Diven Pump Pump room 2 2280 120 Jockey pump Jockey pump Fump room 2 180 120 Pumps for domestic water supply Pump room 8 Hrs 120 Pumping Duration per day 55 Mtr. 55 Mtr. 15 Mtr. 15 Mtr. Friction Head Loss 70 Mtr. 50 LPM 50 LPM 15 Mtr. Discharge of pump Power required 25 HP say 15 Mtr. 15 Mtr. Pumps for flushing water supply Lis proposed to provide domestic water transfer pumps/2W+1S) with capacity of 475 lpm & 70M 8 Hrs 15 Mtr. Friction Head Loss 500 LPM 50 Mtr. 15 Mtr. 15 Mtr. Friction Head Loss 500 LPM 50 Mtr. 15 Mtr. 15 Mtr. Total Head rosses 500 LPM 50 Mtr. 15 Mtr. 15 Mtr. Power required 15 Mtr. 15 Mtr. 15 Mtr. 15 Mtr. Power required 15 Mtr. 15 Mtr. 15 Mtr. 15 Mtr.	Hydrant Pump	nmp room			
Jockey pump Pump room 2 180 120 Pumps for domestic water supply 8 Hrs 8 Hrs 120 Pumping Duration per day 8 Hrs 15 Mit. 15 Mit. Princip Head loses 70 Mit. 15 Mit. 15 Mit. Discharge of pump 24 62 HP 25 HP 25 HP Power required 25 HP say 15 Mit. 15 Mit. Pumps for flushing water supply 8 Hrs 55 Mit. 15 Mit. Pumps for flushing water supply 25 Mit. 250 Mit. 250 Mit. Pumps for flushing water supply 250 Mit. 250 Mit. 250 Mit. Pumps for flushing water supply 250 Mit. 250 Mit. 250 Mit. Pumps for flushing of domestic water transfer pumps/2W+1S) with capacity of 475 fpm & 70M 15 Mit. 15 Mit.	Diesel Engine Driven Pump	ump room			
## Hrs 55 Mtr. 15 Mtr.	Jockey pump	ump room			
### ### ### ### ######################	C. D. Land of the Manufacture of the Control of the				
Clear Head required 15 Mtr. Friction Head Loss 70 Mtr. Total Head losses 950 LPM Discharge of pump 24 62 HP Power required 25 HP say It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M 8 Hrs Pumps for flushing water supply 8 Hrs Pumps for flushing burstion per day 55 Mtr. Clear Head required 15 Mtr. Friction Head Loss 70 Mtr. Total Head Loss 70 Mtr. Total Head Loss 70 Mtr. Fower required 112.96 HP Power required 12 HP say It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M 15 HP say	Primitive for dontestic water supply Primitive Duration per day	8 Hrs			
Friction Head Loss Total Head Losses 15 Mtr. Total Head Losses 950 LPM	Clear Head required	55 Mtr.			
Total Head losses 70 Mtr.	Friction Head Loss	15 Mtr.			
Discharge of pump 24.62 HP 24.62 HP 25.10 HP 24.62 HP	Total Head losses	70 Mtr.			
Power required It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M Head Pumps for flushing water supply Pumping Duration per day Clear Head Loss Friction Head Loss Friction Head Loss Total Head	Discharge of pump	950 LPM			
It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M head head for flushing water supply Pumpis for flushing water supply Pumpis flushing water supply Pumpi flushing water supply Pumpi	Description account	DA CO LC			
head head Pumps for flushing water supply Pumping Duration Per day Pumping Duration Per day Priction Head Loss Total Head Losses Discharge of pump Power required Tits proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M		25 HP say			
Pumps for flushing water supply Pumping Duration per day Pumping Duration per day Pumping Duration per day Clear Head required Friction Head Loss Total Head Loss Total Head Loss Total Head Loss Discharge of pump Power required Total Head Loss Total Head	It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M head				
ing Duration per day 8 Hrs Hrs Head Loss Head Loss Fig. Mtr. Head Loss And Mtr. Fig. Mtr. <t< td=""><td>3 Pumps for flushing water supply</td><td></td><td></td><td></td><td></td></t<>	3 Pumps for flushing water supply				
Head Loss 15 Mtr.	Pumping Duration per day	8 Hrs			
n Head Loss 15 Mtr. read losses 70 Mtr. arge of pump 500 LPM required 12.96 HP opposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M 15 HP say	Clear Head required	55 Mtr.			
Head losses 70 Mtr. 500 LPM required 12.96 HP 15 HP say oposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M x 70M x 70M	Friction Head Loss	15 Mtr.			
required 12.96 HP 15 HP say 15 lbm & 70M 15	Total Head losses	70 Mtr.			
required 12.96 HP 15.96 HP 15.	Discharge of pump	500 LPM			
oposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M	Power required	12.96 HP			. 2
oposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M		15 HP say	/		1
	It is proposed to provide domestic water transfer pumps(2W+1S) with capacity of 475 lpm & 70M head				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				101	100 NO 100

load chart (Pumps+Common Area Emergency Light+Lifts etc)					Gard Salad
Description	QTY	Load in kw	Connected load	D.F	Max. Demand
GENERAL LIFT - 12 Nos @ 7KW	12	7	84	0.5	42
SERVICE LIFT -12 Nos @ 10KW	12	80	96	0.5	48
STILT LIGHTING	12	2	24	0.5	12
EXTERNAL LIGHT (2 KW / ACRE)	7.56	2	15.12	0.5	7.56
SUB STATION AREA		5	5	0.5	2.5
COMMON AREA CORRIDOR, LIFT LOBBY, STAIRCASE	12	1.5	18	0.5	6
JOCKEY (2 SETS)	2	7	14	0.5	7
WATER PUMP		25	25	0.5	12.5
STP		45	45	0.3	1350

ROEN NO. CA18811143

T ARTONIA SEATON AT TOTAL OR	MATERIAL STATEMENT (DOME	STIC WATER SU	PPLY)	
S.NO	DESCRIPTION	SIZE OF PIPE PROVIDED (MM)	LENGTH OF 100MM DIA. PIPE (M)	LENGTH OF 65MM DIA. PIPE (M)
1	RING LINE TO A1 & A2	100	144	0
2	BLK A1	100		65
3	BLK A2			65
4	UGT TO RING LINE UPTO BLK A1 & A2 DIVERSION	100	100	
5	RING LINE TO COMMERCIAL GENTS	65		25
5	RING LINE TO COMMERCIAL LADIES	65		25
6	RING LINE UPTO BLK A1 & A2 DIVERSION TO BLK B1	125	100	
7	RING LINE BLOCKB1	65		65
8	RING LINE BLOCKB2	65		65
9	RING LINE BLOCKB3	65		65
10	RING LINE BLOCKB4	65		65
11	RING LINE BLOCKB5	65		65
12	RING LINE BLOCKB6	65		65
13	RING LINE BLOCKB7	65		65
14	RING LINE BLOCKB8	65		65
15	RINGL LINE UPTO DIVERSION TO BLK C & B6,7,8	100	35	9
16	RINGL LINE UPTO TO BLK C & B6	100	110	
17	RINGL LINE UPTO TO BLK C & B7	100	40	
18	RINGL LINE UPTO TO BLK C & B8	100	40	
19	RINGL LINE UPTO DIVERSION TO BLK C	100	129	
19	RINGL LINE TO BLK C 1	65		65
20	RINGL LINE TO BLK C 1	65	7	65
	SUMMARY OF PIPE LENGTH		698	830

ROHIT JAIN