

PROJECT:-PROPOSED D.D.J.A.Y. AFFORDABLE PLOTTED COLONY OVER AN OVER AREA OF 14.209 ACRES AT SECTOR 95, TEHSIL & DISTT. GURUGRAM

SUB WORK NO. V

STREET LIGHTING

Sl. No.	Description	Amount in Rs.
1	Providing lighting at surrounding area as per standard specification of HVPN 14.209Acre @ Rs.2,50,000/- per acre. <i>under C.F.C</i>	3552250.00
	Total	3552250.00
	Add 3% for Contingencies & P.H. services	106567.50
	Total	3658817.50
	Add 49% Departmental charges + Price escalation	1792820.58
	TOTAL	5451638.08
	Say in Lacs	54.52
(C/O to Final Abstract of Cost)		

SUB WORK NO. VI

HORTICULTURE

Sr.No.	Description	Amount in Rs.
1	Development of lawn area	
a)	Trenching the ordinary soil upto depth of 60 cm. Including removal & packing of serviceable material & disposing at a lead of 50 M and making up the trenched area to proper level by filling with earth mixed with manure before & after flooding trench with water including cost of imported earth & manure.	
b)	Rough dressing of trenched area.	
c)	Grassing with "doob grass" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in row 7.5cm part in either direction including for hedges and grill and barbed wire fencing around park and green belts (as per HSVP Norms) Area 1.128 acrea @ Rs. 1.5 lac per acre	169200.00
2	Planting of trees with tree guards on Roads at 40' intervals	
	Total length of roads = 1526.8 ¹²⁹⁹ mtr	
	No. Of trees @ 12 m c/c = 1526.8 ¹²⁹⁹ x 2 / 12 = 254 ^{218.50} Nos.	
	Say 254 ²²⁰ Nos. @ Rs. 1800/- each	457200.00 ^{3.96}
	Total	626400.00 ^{5.65}
	Add 3% for Contingencies & P.H. services	18792.00 ^{0.17}
	Total	645192.00 ^{5.82 lacs.}
	Add 49% Departmental charges + Price escalation	316144.08 ^{2.85 lacs.}
	TOTAL	961336.08 ^{8.67 lacs.}
	Say in Lacs	9.61 ⁷
(C/O to Final Abstract of Cost)		

PROJECT:-PROPOSED D.D.J.A.Y. AFFORDABLE PLOTTED COLONY OVER AN OVER AREA OF 14.209 ACRES AT SECTOR 95, TEHSIL & DISTT. GURUGRAM
SUB WORK NO. VII MTC. OF SERVICES & RESURFACING OF ROADS

Sr.No.	Description	Amount in Rs.
1	Mtc. Of water supply, sewer, storm water drain, roads, street light, horticulture etc. for period of 10 yrs. including operation charges full establishment etc. complete in all respect 14.209 acre @ Rs. 7.5 lac/acre 8.00 lac P/acre	10656750.00 113.67 lac.
2	Provision of resurfacing of roads after 5 years of 1st phase with provision of 50mm thick BM including leveling coarse and 30mm BC as per crust design whichever is safer. 8397.7 7150 sq. mtr @ 600/- 660 L per sqm per sq.	5038620.00 47.19 lac.
3	Resurfacing of road after 10 years of maintenance by providing 25 mm thick premix carpet with seal coat with mechanical paver. 8397.7 7150 sqm. @ Rs. 750/- 825 per sqm. per sqm.	6298275.00 58.99
	7150 Total 13825 per sqm.	21993645.00 219.85 lac.
	Add 3% for Contingencies & P.H. services	659809.35 6.60 lac
	Total	22653454.35 226.45 lac
	Add 49% Departmental charges + Price escalation	11100192.63 110.95 lac
	TOTAL	33753646.98 337.40 lac
	Say in Lacs	337.54
(C/O to Final Abstract of Cost)		

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SUMMARY OF DESIGN REQUIREMENT			
S.No.	Description	Qty.	Unit
1	Total Population (Residential)	4428	Person
2	Total Water Requirement (Domestic)	583	KLD
3	Total Water Requirement (Flushing)	287	KLD
4	Total Water Requirement (Horticulture)	36	KLD
5	U.G. Tank (Domestic + Fire) 350+70 KL	420	KL
6	Number of Domestic pumps (WS) UGT	3	Nos
7	Number of Flushing pumps (WS) STP	2	Nos
8	Number of submersible pumps	3	Nos
9	DG Set (40 KVA)	1	Nos
10	STP	700	KLD

PROJECT:-PROPOSED D.D.J.A.V. AFFORDABLE PLOTTED COLONY OVER AN OVER AREA OF 14.209 ACRES AT SECTOR 95, TEHSIL & DISTT. GURUGRAM

HEAD LOSS CALCULATION FOR DOMESTIC WATER SUPPLY

Material of Pipe - DI Pipe (Coefficient 120)

Nodes		No. of Plots			Total Flow (m3/Sec)	Length of Pipe		Area		Velocity		Head Loss in Pipe Length		Head Loss in Fittings @ 25%		Total Head Loss		Road Level			HYDRAULIC LEVEL			Terminal head		Remark
FROM	TO	Self	Add	Total	Plots	M	MM	m2	MPS	M	M	M	M	M	M	Lower End (MD)	Upper End (MD)	Lower End (MD)	Upper End (MD)	Lower End (MD)	Upper End (MD)	Lower End (MD)	Upper End (MD)	Lower End (MD)	Upper End (MD)	
UGT	C15	0	283	283	0.02043	5.00	100 150	0.008	2.602	0.415	0.104	0.518	-5.00	0.00	45.000	44.482	50.000	44.482								
C15	C14	0	60	60	0.00433	70.00	100 150	0.008	0.552	0.328	0.082	0.410	0.00	0.00	44.482	44.071	44.482	44.071								
C14	C14a	0	15	15	0.00108	58.00	100 150	0.008	0.138	0.021	0.005	0.026	0.00	0.00	44.071	44.045	44.071	44.045								
C14	C13	27	18	45	0.00325	77.00	100	0.008	0.414	0.212	0.053	0.265	0.00	0.00	44.045	43.780	44.045	43.780								Commercial - 5 Unit added
C13	C12	9	18	27	0.00195	116.00	100	0.008	0.248	0.124	0.031	0.155	0.00	0.00	43.780	43.625	43.780	43.625								
C12	C11	0	9	9	0.00065	27.00	100	0.008	0.083	0.004	0.001	0.005	0.00	0.00	43.625	43.621	43.625	43.621								
C15	C10	0	124	124	0.00895	65.00	100	0.008	1.140	1.169	0.292	1.462	-5.00	0.00	45.000	43.538	50.000	43.538								
C10	C9	27	43	70	0.00505	9.00	100	0.008	0.644	0.056	0.014	0.070	0.00	0.00	43.538	43.468	43.538	43.468								
C9	C8	11	32	43	0.00310	116.00	100	0.008	0.395	0.294	0.073	0.367	0.00	0.00	43.468	43.101	43.468	43.101								
C8	C7	20	12	32	0.00231	9.00	100	0.008	0.294	0.013	0.003	0.016	0.00	0.00	43.101	43.085	43.101	43.085								
C7	C7a	0	12	12	0.00087	42.00	100 150	0.008	0.110	0.010	0.003	0.013	0.00	0.00	43.085	43.072	43.085	43.072								
C10	C6	32	22	54	0.00390	92.00	100 150	0.008	0.497	0.355	0.089	0.444	0.00	0.00	43.072	42.628	43.072	42.628								Community Center - 32 unit added
C6	C5	0	22	22	0.00159	87.00	100	0.008	0.202	0.064	0.016	0.080	0.00	0.00	42.628	42.549	42.628	42.549								
C4	C15	0	95	95	0.00686	11.00	100	0.008	0.874	0.121	0.030	0.151	0.00	0.00	42.549	42.398	42.549	42.398								
C4	C3	16	79	95	0.00686	130.00	100 150	0.008	0.874	1.428	0.357	1.785	0.00	0.00	42.398	40.613	42.398	40.613								
C3a	C3	0	40	40	0.00289	160.00	100	0.008	0.368	0.354	0.089	0.443	0.00	0.00	40.613	40.170	40.613	40.170								
C3	C2	8	31	39	0.00282	45.00	100	0.008	0.359	0.095	0.024	0.119	0.00	0.00	40.170	40.051	40.170	40.051								
C2	C1	0	31	31	0.00224	121.00	100	0.008	0.285	0.167	0.042	0.209	0.00	0.00	40.051	39.843	40.051	39.843								
1240.00															Total	6.537										

$100 \text{ mm D.I} = 878 \text{ mts}$
 $150 \text{ mm D.I} = 362 \text{ mts}$

PROJECT:-PROPOSED D.D.J.A.V. AFFORDABLE PLOTTED COLONY OVER AN OVER AREA OF 14.209 ACRES AT SECTOR 95, TEHSIL & DISTT. GURUGRAM

HEAD LOSS CALCULATION FOR FLUSHING WATER SUPPLY

Material of Pipe - PE-100 Pipe (Coefficient 145)

Nodes		No. of Plots			Total Flow (m3/Sec)	Length of Pipe	Dia of Pipe		Area	Velocity	Head Loss in Pipe Length	Head Loss in Fittings @ 25%	Total Head Loss	Road Level			HYDRAULIC LEVEL		Terminal head		Remark
FROM	TO	Self	Add	Total	M	MM (OD)	MM (ID)	m2	MPS	M	M	M	M	Lower End (M)	Upper End (M)	Lower End (M)	Upper End (M)	Lower End (M)	Upper End (M)		
STP	F1	0	283	283	0.0101	6.00	110	140 ¹⁵⁰	0.008	1.284	0.095	0.024	0.118	-5.00	0.00	45.000	44.882	50.000	44.882	M	
F1	F2	0	219	219	0.0078	7.00	110	140 ¹⁵⁰	0.008	0.994	0.069	0.017	0.086	0.00	0.00	44.882	44.796	44.882	44.796		
F2	F2b	40	55	95	0.0034	307.00	110	140 ¹⁵⁰	0.008	0.431	0.642	0.161	0.803	0.00	0.00	44.796	43.993	44.796	43.993		
F2b	F2a	31	9	40	0.0014	171.00	110	100	0.008	0.182	0.072	0.018	0.090	0.00	0.00	43.993	43.903	43.993	43.903		
F3a	F3b	0	12	12	0.0004	88.00	110	100	0.008	0.054	0.004	0.001	0.005	0.00	0.00	45.000	44.995	45.000	44.995		
F3b	F3	12	20	32	0.0011	117.00	110	100	0.008	0.145	0.033	0.008	0.041	0.00	0.00	44.995	44.954	44.995	44.954		
F3c	F3d	0	22	22	0.0008	115.00	110	100	0.008	0.100	0.016	0.004	0.020	0.00	0.00	45.000	44.980	45.000	44.980	Community Center - 32 unit added	
F3d	F3	22	32	54	0.0019	70.00	110	100	0.008	0.245	0.051	0.013	0.064	0.00	0.00	44.980	44.916	44.980	44.916		
F3e	F3	0	27	27	0.0010	8.00	110	100	0.008	0.123	0.002	0.000	0.002	0.00	0.00	45.000	44.998	45.000	44.998		
F3	F2	11	113	124	0.0044	90.00	110 ¹⁵⁰	140 ¹⁵⁰	0.008	0.563	0.308	0.077	0.385	0.00	0.00	44.916	44.530	44.916	44.530		
F4a	F4	0	27	27	0.0010	154.00	110	100	0.008	0.123	0.031	0.008	0.039	0.00	0.00	45.000	44.961	45.000	44.961		
F4	F5	27	23	50	0.0018	39.00	110	100	0.008	0.227	0.025	0.006	0.031	0.00	0.00	44.961	44.930	44.961	44.930		
F5	F6	50	14	64	0.0023	177.00	110 ¹⁵⁰	140 ¹⁵⁰	0.008	0.290	0.178	0.045	0.223	0.00	0.00	43.993	43.770	43.993	43.770	Commercial - 5 Unit added	
F6	F1	0	64	64	0.0023	39.00	110	100	0.008	0.290	0.039	0.010	0.049	0.00	0.00	43.770	43.721	43.770	43.721		
STP OVER FLOW PIPE						1388.00						Total	1.957								

150mm ϕ D.I.E = 587+25=612mtr.
100mm ϕ D.I.E = 801mtr.

HYDRAULIC DESIGN CHART FOR SEWERAGE NETWORK

HDPE DVC Pipe 0.011

Node	No. of Plots			Sewage Flow	Peak Flow	Infiltration	Total Discharge	Diameter	Slope (1 in N)	Q _{max}	q/Q _{max}	d/D _{max}	v/V _{max}	V _{full}	v	d	L.O.P.	F.L.L.	Levels at Start		Levels at End		Depth		Remark
	To	Self	Add	Total	m ³ /Sec	cumec	@5L/m/day	cumec	mm	cumec				m/s	m/s	mm	mtrs.	mtrs.	RL	IL	RL	IL	mtrs	mtrs	
S1	S2	31	0	31	0.000891	0.0027	0.00000694	0.00268	250	0.050	0.054	0.148	0.50	1.03	0.52	36.94	120.00	0.615	0.00	-0.90	0.00	-1.52	0.90	1.52	
S2a	S2	4	0	4	0.000115	0.0003	0.00000104	0.00035	250	0.050	0.007	0.079	0.36	1.03	0.37	19.78	18.00	0.092	0.00	-0.90	0.00	-0.99	0.90	0.99	
S2	S3	35	6	41	0.001179	0.0035	0.00000289	0.00354	250	0.050	0.071	0.173	0.56	1.03	0.57	43.28	50.00	0.256	0.00	-1.52	0.00	-1.77	1.52	1.77	
S3a	S3	40	0	40	0.001150	0.0035	0.00000938	0.00346	250	0.050	0.069	0.170	0.55	1.03	0.57	42.54	162.00	0.831	0.00	-0.90	0.00	-1.73	0.90	1.73	
S3	S9	81	14	95	0.002731	0.0082	0.00000804	0.00820	250	0.050	0.164	0.269	0.73	1.03	0.75	67.36	139.00	0.713	0.00	-1.77	0.00	-2.48	1.77	2.48	
S4	S8	33	32	65	0.001869	0.0056	0.00001071	0.00562	250	0.050	0.112	0.221	0.65	1.03	0.67	55.32	185.00	0.949	0.00	-0.90	0.00	-1.85	0.90	1.85	Community Center - 32 unit added
S5	S6	12	0	12	0.000345	0.0010	0.00000208	0.00104	250	0.050	0.021	0.100	0.40	1.03	0.41	25.00	36.00	0.185	0.00	-0.90	0.00	-1.08	0.90	1.08	
S5a	S6	2	0	2	0.000058	0.0002	0.00000069	0.00017	250	0.050	0.004	0.075	0.35	1.03	0.36	18.66	12.00	0.062	0.00	-0.90	0.00	-0.96	0.90	0.96	
S6	S7	14	8	22	0.000633	0.0019	0.00000266	0.00190	250	0.050	0.038	0.124	0.45	1.03	0.46	30.97	46.00	0.236	0.00	-1.08	0.00	-1.32	1.08	1.32	
S6a	S7	20	0	20	0.000575	0.0017	0.00000451	0.00173	250	0.050	0.035	0.119	0.44	1.03	0.45	29.85	78.00	0.400	0.00	-0.90	0.00	-1.30	0.90	1.30	
S7	S8	42	71	113	0.003249	0.0097	0.00000266	0.00975	250	0.050	0.194	0.297	0.77	1.03	0.79	74.31	46.00	0.236	0.00	-1.32	0.00	-1.56	1.32	1.56	
S8	S9	113	11	124	0.003565	0.0107	0.00000434	0.01070	250	0.050	0.213	0.311	0.79	1.03	0.81	77.84	75.00	0.385	0.00	-1.85	0.00	-2.23	1.85	2.23	
S9	S14	219	0	219	0.006296	0.0189	0.00000098	0.01889	250	0.050	0.376	0.423	0.92	1.03	0.95	105.83	17.00	0.087	0.00	-2.23	0.00	-2.32	2.23	2.32	
S10	S11	22	0	22	0.000633	0.0019	0.00000370	0.00190	250	0.050	0.038	0.124	0.45	1.03	0.46	30.97	64.00	0.328	0.00	-0.90	0.00	-1.23	0.90	1.23	
S11	S12	22	6	28	0.000805	0.0024	0.00000318	0.00242	250	0.050	0.049	0.140	0.49	1.03	0.50	35.07	55.00	0.282	0.00	-1.23	0.00	-1.51	1.23	1.51	
S12a	S12	9	5	14	0.000403	0.0012	0.00000405	0.00121	250	0.050	0.025	0.104	0.41	1.03	0.42	26.12	70.00	0.359	0.00	-0.90	0.00	-1.26	0.90	1.26	Commercial - 5 Unit added
S12	S13	42	4	46	0.001323	0.0040	0.00000162	0.00397	250	0.050	0.079	0.185	0.58	1.03	0.60	46.27	28.00	0.144	0.00	-1.51	0.00	-1.65	1.51	1.65	
S13a	S13	4	0	4	0.000115	0.0003	0.00000162	0.00035	250	0.050	0.007	0.079	0.36	1.03	0.37	19.78	28.00	0.144	0.00	-0.90	0.00	-1.04	0.90	1.04	
S13	S14	50	14	64	0.001840	0.0055	0.00000625	0.00553	250	0.050	0.110	0.219	0.65	1.03	0.66	54.86	108.00	0.554	0.00	-1.65	0.00	-2.21	1.65	2.21	
S14	STP	283	0	283	0.008136	0.0244	0.00000012	0.02441	250	0.050	0.486	0.491	0.99	1.03	1.02	122.70	2.00	0.010	0.00	-2.32	0.00	-2.33	2.32	2.33	

1339 m/s

HYDRAULIC DESIGN CHART FOR STORM WATER DRAINAGE NETWORK

Run Concrete					0.013																		
Rainfall Intensity					0.006																		
Node		Catchment Area (Sq.Mtr.)			Discharge	Diameter	Slope (1 in N)	Q _{full}		q/Q _{full}	d/D _{full}	v/V _{full}	V _{full}	V	d	L.O.P.	F.L.L.	Levels at Start		Levels at End		Depth	
From	To	Self	Add	Total	cumec	mm	1:n						m/s	m/s	mm	mtrs.	mtrs.	RL	IL	RL	IL	mtrs	mtrs
OUTFALL 1																							
D1	D2	5370	0	5370	0.0068	400	600	0.085	TRUE	0.081	0.188	0.59	0.68	0.40	75.22	114	0.190	0.00	-1.10	0.00	-1.29	1.10	1.29
D2a	D2	662	0	662	0.0008	400	600	0.085	TRUE	0.010	0.082	0.36	0.68	0.25	32.84	18	0.030	0.00	-1.10	0.00	-1.13	1.10	1.13
D2	D3	1025	6032	7057	0.0089	400	600	0.085	TRUE	0.106	0.216	0.64	0.68	0.43	86.30	45	0.075	0.00	-1.29	0.00	-1.37	1.29	1.37
D3a	D3	6870	0	6870	0.0087	400	600	0.085	TRUE	0.103	0.213	0.64	0.68	0.43	85.19	147	0.245	0.00	-1.10	0.00	-1.35	1.10	1.35
D3	D7	3724	13927	17651	0.0224	400	600	0.085	TRUE	0.264	0.348	0.84	0.68	0.57	139.01	144	0.240	0.00	-1.37	0.00	-1.61	1.37	1.61
D4	D5	5878	0	5878	0.0074	400	600	0.085	TRUE	0.088	0.200	0.62	0.68	0.42	80.00	172	0.287	0.00	-1.10	0.00	-1.39	1.10	1.39
D5a	D5	3272	0	3272	0.0041	400	600	0.085	TRUE	0.049	0.140	0.49	0.68	0.33	56.12	112	0.187	0.00	-1.10	0.00	-1.29	1.10	1.29
D5	D6	100	9150	9250	0.0117	400	600	0.085	TRUE	0.138	0.245	0.69	0.68	0.47	98.15	9	0.015	0.00	-1.39	0.00	-1.40	1.39	1.40
D6	D7	10600	9250	19850	0.0251	400	600	0.085	TRUE	0.296	0.370	0.86	0.68	0.58	148.09	67	0.112	0.00	-1.40	0.00	-1.51	1.40	1.51
D7	D11	50	37501	37551	0.0476	400	600	0.085	TRUE	0.560	0.535	1.03	0.68	0.69	214.04	38	0.063	0.00	-1.61	0.00	-1.67	1.61	1.67
D8	D9	100	2400	2500	0.0032	400	600	0.085	TRUE	0.038	0.124	0.45	0.68	0.31	49.55	76	0.127	0.00	-1.10	0.00	-1.23	1.10	1.23
D9	D10	55	6160	6215	0.0079	400	600	0.085	TRUE	0.093	0.205	0.62	0.68	0.42	81.85	43	0.072	0.00	-1.23	0.00	-1.30	1.23	1.30
D10	D11	40	6215	6255	0.0079	400	600	0.085	TRUE	0.094	0.206	0.62	0.68	0.42	82.22	34	0.057	0.00	-1.30	0.00	-1.36	1.30	1.36
D11	Outfall 1	20	43806	43826	0.0555	400	600	0.085	TRUE	0.654	0.589	1.06	0.68	0.72	235.79	5	0.008	0.00	-1.67	0.00	-1.68	1.67	1.68
TOTAL																1024							
OUTFALL 2																							
D12a	D12	4800	0	4800	0.0061	400	600	0.085	TRUE	0.072	0.175	0.56	0.68	0.38	69.85	64	0.107	0.00	-1.10	0.00	-1.21	1.10	1.21
D12	D13	2010	4800	6810	0.0086	400	600	0.085	TRUE	0.102	0.213	0.64	0.68	0.43	85.19	46	0.077	0.00	-1.21	0.00	-1.28	1.21	1.28
D13a	D13	3580	0	3580	0.0045	400	600	0.085	TRUE	0.054	0.148	0.50	0.68	0.34	59.10	63	0.105	0.00	-1.10	0.00	-1.21	1.10	1.21
D13	D14	770	10390	11160	0.0141	400	600	0.085	TRUE	0.167	0.272	0.73	0.68	0.49	108.89	27	0.045	0.00	-1.28	0.00	-1.33	1.28	1.33
D14	D15	660	11160	11820	0.0150	400	600	0.085	TRUE	0.177	0.281	0.75	0.68	0.50	112.59	25	0.042	0.00	-1.33	0.00	-1.37	1.33	1.37
D15	D16	670	11820	12490	0.0158	400	600	0.085	TRUE	0.187	0.291	0.76	0.68	0.51	116.30	71	0.118	0.00	-1.37	0.00	-1.49	1.37	1.49
D16a	D16	1145	0	1145	0.0015	400	600	0.085	TRUE	0.018	0.094	0.39	0.68	0.26	37.61	53	0.088	0.00	-1.10	0.00	-1.19	1.10	1.19
D16	Outfall 2	40	13635	13675	0.0173	400	600	0.085	TRUE	0.204	0.306	0.78	0.68	0.53	122.27	5	0.008	0.00	-1.49	0.00	-1.50	1.49	1.50
TOTAL																354							

Vikas

Ar. VIKAS AHLAWAT
CA/2013/59029

For LANDMARK APARTMENTS PVT. LTD.

Authorized Signatory

PROJECT:-PROPOSED D.D.J.A.Y. AFFORDABLE PLOTTED COLONY OVER AN OVER AREA OF 14.209 ACRES AT SECTOR 95, TEHSIL & DISTT. GURUGRAM

Sub Work IV					Road Work
<u>MATERIAL STATEMENT (ROAD WORK)</u>					
TAG	LENGTH (MM)	WIDTH (MM)	DRIVE WAY	AREA	UNIT
R1	121.7	9	5.5	669.35	SQM.
R2	154.4	9	5.5	849.20	SQM.
R3	78.9	9	5.5	433.95	SQM.
R4	254.1	9	5.5	1397.55	SQM.
R5		9	5.5	#VALUE!	SQM.
R6	94.6	9	5.5	520.30	SQM.
R7	82.8	9	5.5	455.40	SQM.
R8	42	9	5.5	231.00	SQM.
R9	35.6	9	5.5	195.80	SQM.
R10	64.85	9	5.5	356.68	SQM.
R11	63	9	5.5	346.50	SQM.
R12	63	9	5.5	346.50	SQM.
R13	125.7	9	5.5	691.35	SQM.
TOTAL	1180.65			6493.57 #VALUE!	SQM.
Add 10% for Curves	118.065			649.35 #VALUE!	SQM.
	1298.715			7142.92 #VALUE!	SQM.
Say	1299			#VALUE!	SQM.

Say = 7150 sqm