

DESIGN STATEMENT OF DRAINAGE

For VATIKA LIMITED


Authorised Signatory

STORM WATER DRAINAGE, VATIKA AMBALA

Sr No.	Name of Road	Length	Estimated Storm Water Generation		Estimated Storm Water Generation		Discharge		Velocity	Flow	Size of Drain			Slope	Fall	Formation Level		Invert Level		Depth	
			Rain fall intensity	Self	Previous	Total	MLD	Cum.	M/sec	Cum/hr.	Width	Depth	Total Depth including free board			Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
			42.5								Mtrs.	Mtrs.	Mtrs.		M	M	M	M	M	M	M
1	C45-C42	115	10326	64.538	1549	0	1549	1.53	0.0179	0.645	209	0.30	0.45	660	0.17	270.18	270.08	269.78	269.61	0.40	0.47
2	C42-C40	50	1041	6.503	156	1549	1705	1.70	0.0197	0.645	209	0.30	0.45	660	0.08	270.08	270.14	269.61	269.53	0.47	0.51
3	C45-C40	132	7912	49.449	1187	0	1187	1.19	0.0137	0.645	209	0.30	0.45	660	0.20	270.27	270.14	269.97	269.67	0.40	0.47
4	C40-C39	50	1041	6.503	156	2892	3048	3.05	0.0353	0.645	209	0.30	0.45	660	0.08	270.14	270.20	269.53	269.45	0.51	0.54
5	C44-C39	132	7327	45.792	1029	0	1029	1.10	0.0127	0.645	209	0.30	0.45	660	0.20	270.33	270.20	269.93	269.73	0.40	0.47
6	C39-C37	50	4526	9.538	229	4147	4376	4.38	0.0586	0.645	209	0.30	0.45	660	0.08	270.20	270.26	269.45	269.38	0.73	0.83
7	C38-C37	120	6999	41.861	1005	0	1005	1.00	0.0116	0.645	209	0.30	0.45	660	0.18	270.39	270.26	269.99	269.81	0.40	0.45
8	C37-C35	50	1041	6.503	156	5360	5537	5.54	0.0641	0.645	337	0.45	0.80	800	0.06	270.26	270.32	269.38	269.32	0.88	1.09
9	C36-C35	89	5455	34.093	818	0	818	0.82	0.0095	0.645	209	0.30	0.45	660	0.13	270.42	270.32	270.02	269.89	0.40	0.45
10	C39-C27	48	1770	11.065	266	0	266	0.27	0.0031	0.645	209	0.30	0.45	660	0.07	270.90	270.88	270.50	270.49	0.40	0.45
11	C27-C26	39	812	5.073	122	266	387	0.39	0.0045	0.645	209	0.30	0.45	660	0.06	270.88	270.88	270.43	270.37	0.45	0.51
12	C36-C26	70	2507	15.667	376	0	376	0.38	0.0044	0.645	209	0.30	0.45	660	0.11	270.90	270.88	270.50	270.39	0.40	0.49
13	C26-C25	21	437	2.731	66	763	829	0.83	0.0096	0.645	209	0.30	0.45	660	0.03	270.88	270.87	270.37	270.34	0.51	0.52
14	C39-C35	114	4822	27.015	648	0	648	0.65	0.0075	0.645	209	0.30	0.45	660	0.17	270.90	270.89	270.50	270.33	0.40	0.56
15	C38-C34	39	812	5.073	122	648	770	0.77	0.0059	0.645	209	0.30	0.45	660	0.06	270.89	270.83	270.33	270.27	0.59	0.59
16	C31-C34	92	1915	11.965	287	0	287	0.29	0.0033	0.645	209	0.30	0.45	660	0.14	270.90	270.88	270.34	270.20	0.59	0.62
17	C34-C25	10	1925	12.029	289	1057	1346	1.35	0.0156	0.645	209	0.30	0.45	660	0.03	270.88	270.87	270.48	270.45	0.40	0.41
18	C25-C22	23	479	2.992	72	2175	2247	2.25	0.0280	0.645	209	0.30	0.45	660	0.03	270.87	270.07	270.34	270.30	0.53	0.55
19	C24-C23	29	604	3.772	91	0	91	0.09	0.0010	0.645	209	0.30	0.45	660	0.04	270.87	270.87	270.47	270.43	0.40	0.42
20	C23-C22	41	853	5.333	128	91	219	0.22	0.0025	0.645	209	0.30	0.45	660	0.06	270.87	270.07	270.43	270.36	0.44	0.47
21	C22-C21	165	3434	21.461	515	2465	2980	2.98	0.0345	0.645	209	0.30	0.45	660	0.25	270.07	270.39	270.05	270.05	0.23	0.34
22	C21-C35	71	3998	24.995	600	2980	3580	3.58	0.0414	0.640	415	0.60	0.45	1150	0.06	270.39	270.39	270.05	269.99	0.34	0.40
23	C35-C41	34	910	5.687	136	9935	10071	10.07	0.1166	0.655	637	0.60	0.45	1400	0.02	270.39	270.28	269.99	269.97	0.40	0.36
24	C43-C41	175	8682	54.262	1302	0	1302	1.30	0.0151	0.692	337	0.45	0.45	800	0.22	270.09	270.28	269.69	269.47	0.40	0.31
25	C41-C18	97	3699	23.117	555	11373	11928	11.93	0.1391	0.655	637	0.60	0.45	1400	0.07	270.28	270.42	269.10	269.03	1.16	1.39
26	C18-C17	21	437	2.731	66	11928	11994	11.99	0.1398	0.679	880	0.60	0.75	1500	0.01	270.42	270.42	269.83	269.02	1.39	1.40
27	C15-C13	127	8293	51.831	1244	0	1244	1.24	0.0144	0.645	209	0.30	0.45	660	0.13	270.21	270.09	269.81	269.63	0.40	0.45
28	C13-C9	65	5602	35.012	840	1244	2084	2.08	0.0241	0.645	209	0.30	0.45	660	0.10	270.09	270.06	269.63	269.53	0.46	0.35
29	C1-C2	111	21405	133.782	3211	0	3211	3.21	0.0372	0.645	209	0.30	0.45	660	0.17	270.26	270.11	269.86	269.69	0.40	0.41
30	C2-C3	59	1509	8.180	196	3211	3407	3.41	0.0394	0.645	209	0.30	0.45	660	0.09	270.11	270.09	269.69	269.60	0.42	0.49
31	C4-C3	100	5575	34.847	836	0	836	0.84	0.0097	0.645	209	0.30	0.45	660	0.15	270.24	270.09	269.84	269.69	0.40	0.40



Vatika Limited

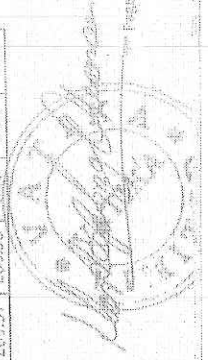
 Ambala

For VATIKA LIMITED

 Authorised Signatory

STORM WATER DRAINAGE, VATIKA AMBALA

Sr. No.	Name of Road	Length	Estimated Storm Water Generation		Estimated Storm Water Generation		Discharge		Velocity	Flow	Size of Drain			Slope	Fall	Formation Level		Invert Level		Depth	
			Rain fall Intensity	Self	Previous	Total	MLD	Cum.	m/sec	Cum/hr.	Width	Depth	Total Depth including free board			Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
			62.5								Mrs.	Mrs.	Mrs.			M	M	M	M	M	M
32	C3-C5	54	2135	13347	320	4243	456	0.0528	0.693	337	0.45	0.30	0.45	800	0.07	270.09	270.07	269.60	269.53	0.49	0.54
33	C6-C5	101	6985	38097	914	914	0.91	0.0106	0.645	209	0.30	0.30	0.45	660	0.15	270.22	270.07	269.82	269.67	0.40	0.40
34	C5-C7	58	1659	10369	249	5478	577	0.0663	0.693	337	0.45	0.30	0.45	800	0.07	270.07	270.07	269.53	269.46	0.54	0.51
35	C8-C7	105	2185	13637	328	4328	0.33	0.0038	0.645	209	0.30	0.30	0.45	660	0.16	270.19	270.07	269.79	269.63	0.40	0.49
36	C7-C9	17	4597	28731	690	6055	674	0.0781	0.640	415	0.60	0.30	0.45	1150	0.01	270.07	270.06	269.46	269.45	0.61	0.61
37	C9-C12	34	708	4422	106	8828	893	0.1034	0.640	415	0.80	0.30	0.45	1150	0.03	270.06	270.06	269.66	269.63	0.40	0.43
38	C11-C12	34	708	4422	106	8828	893	0.1034	0.640	415	0.80	0.30	0.45	1150	0.03	270.06	270.06	269.66	269.63	0.40	0.43
39	C12-C16	99	18896	116097	2834	9041	11875	0.1374	0.655	637	0.60	0.45	0.6	1400	0.07	270.06	270.24	269.42	269.35	0.64	0.84
40	C16-C17	99	4160	26002	624	11875	12499	0.1447	0.679	880	0.60	0.60	0.75	1600	0.07	270.24	270.42	269.35	269.28	0.89	1.14
41	C17-C19	212	8773	54832	1316	24493	25809	0.2987	0.775	1570	0.75	0.75	0.9	1550	0.14	270.42	270.58	269.28	269.14	1.14	1.44
42	C19-D	127	16092	100573	2414	25508	28223	0.3267	0.775	1570	0.75	0.75	0.9	1550	0.08	270.58	270.02	269.14	269.06	1.44	0.98
43	D-D2	70	1457	9105	219	28223	28441	0.3292	0.775	1570	0.75	0.75	0.9	1550	0.05	270.02	270.02	269.06	269.02	0.96	1.00
44	C49-C46	19	1609	10059	261	0	261416	0.24	0.0028	0.645	209	0.30	0.30	660	0.03	270.32	270.36	269.92	269.89	0.40	0.11
45	C48-C47	91	2393	14856	359	261416	690385	0.60	0.0069	0.645	209	0.30	0.30	660	0.14	270.00	270.14	269.89	269.78	0.11	0.39
46	C47-D25	157	5727	42042	1009	690	1609	0.161	0.0186	0.645	209	0.30	0.30	660	0.24	270.14	270.22	269.75	269.52	0.39	0.70
47	C16-D25	47	978	6113	147	0	147	0.15	0.0017	0.640	415	0.60	0.30	1150	0.04	270.24	270.22	269.84	269.80	0.40	0.41
48	D35-D24	85	3407	21266	511	1756	2267	0.2622	0.693	337	0.45	0.30	0.45	800	0.10	270.22	270.08	269.80	269.70	0.32	0.38
49	D23-D24	82	7232	45201	1085	0	1085	1.08	0.0126	0.645	209	0.30	0.30	660	0.12	270.05	270.08	269.85	269.53	0.40	0.55
50	D24-D21	67	3074	19215	461	3352	3313	0.381	0.0441	0.693	337	0.45	0.30	800	0.08	270.08	270.08	269.53	269.44	0.55	0.64
51	D22-D21	81	1686	10335	253	0	253	0.25	0.0029	0.645	209	0.30	0.30	660	0.12	270.08	270.08	269.88	269.56	0.40	0.52
52	D21-D20	60	3935	24595	590	4066	4656	0.466	0.0539	0.645	209	0.30	0.30	660	0.10	270.08	270.09	269.44	269.34	0.64	0.78
53	D19-D20	61	6400	40001	960	0	960	0.96	0.0111	0.645	209	0.30	0.30	660	0.09	270.38	270.09	269.88	269.79	0.40	0.50
54	D20-D17	68	3995	19345	464	5616	6081	0.608	0.0704	0.693	337	0.45	0.30	800	0.09	270.39	270.09	269.34	269.25	0.75	0.84
55	D18-D17	32	5906	36916	886	0	886	0.89	0.0103	0.645	209	0.30	0.30	660	0.12	270.28	270.09	269.88	269.76	0.40	0.53
56	D17-D16	69	3515	21970	527	6957	7494	0.749	0.0867	0.693	337	0.45	0.30	800	0.09	270.09	270.07	269.25	269.17	0.64	0.90
57	D15-D16	97	6219	38867	933	0	933	0.93	0.0108	0.645	209	0.30	0.30	660	0.15	270.52	270.07	270.12	269.97	0.40	0.10
58	D16-D2	80	3345	20995	502	8427	8928	0.893	0.1033	0.640	415	0.60	0.30	1150	0.07	270.02	270.52	269.17	269.10	0.85	1.42
59	D2-D3	93	5583	22392	537	37369	37907	37.91	0.6387	1891	0.90	0.75	0.9	1800	0.05	270.52	269.09	269.02	268.97	1.50	0.11
60	D3-D27	72	1498	9365	225	37907	38132	38.13	0.4413	1891	0.90	0.75	0.9	1800	0.04	269.09	269.09	268.87	268.78	0.12	0.94
61	D30-D29	46	3657	19108	459	0	459	0.46	0.0053	0.645	209	0.30	0.30	660	0.07	269.74	269.74	269.34	269.27	0.40	0.47
62	D31-D29	34	1666	10427	250	0	250	0.25	0.0029	0.645	209	0.30	0.30	660	0.04	269.77	269.77	269.37	269.33	0.40	0.41



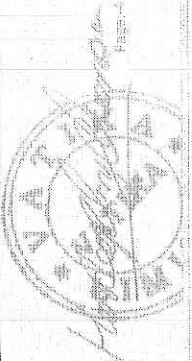
STORM WATER DRAINAGE, VATIKA AMBALA

Sr. No.	Name of Road	Length	Estimated Storm Water Generation		Estimated Storm Water Generation		Discharge		Velocity	Flow	Size of Drain			Slope	Fall	Formation Level		Invert Level		Depth	
			Self	Previous	Total	MLD	Cum.	M/sec	Cum/Hr.	Mtrs.	Depth	Total Depth including free board	Mtrs.			Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
63	D29-D28	4#	2176	13.598	326	789	1035	1.04	0.0120	0.645	209	0.30	0.30	15	0.07	269.74	269.86	269.27	269.20	0.67	0.60
64	D48-D42	135	14904	93.149	2335	0	2236	2.24	0.0259	0.645	209	0.30	0.30	660	0.20	270.15	270.28	269.75	269.55	0.40	0.73
65	D43-D42	32	666	4.162	100	0	100	0.10	0.0012	0.645	209	0.30	0.30	660	0.05	270.28	270.28	269.88	269.83	0.40	0.65
66	D42-D41	45	936	5.853	140	2335	2476	2.48	0.0287	0.645	209	0.30	0.30	660	0.07	270.28	270.22	269.55	269.48	0.73	0.74
67	D44-D41	134	7415	46.341	1112	0	1112	1.11	0.0129	0.645	209	0.30	0.30	660	0.20	270.22	270.22	269.82	269.62	0.40	0.50
68	D41-D39	45	936	5.853	140	3588	3729	3.73	0.0432	0.645	209	0.30	0.30	660	0.07	270.22	270.15	269.45	269.41	0.74	0.74
69	D40-D39	114	5998	27.480	900	0	900	0.90	0.0104	0.645	209	0.30	0.30	660	0.17	270.03	270.15	269.63	269.46	0.40	0.59
70	D39-D37	45	936	5.853	140	4628	4769	4.77	0.0552	0.645	209	0.30	0.30	800	0.06	270.15	270.08	269.41	269.35	0.74	0.73
71	D38-D37	83	4353	27.205	653	0	653	0.65	0.0076	0.645	209	0.30	0.30	800	0.13	269.99	270.08	269.59	269.46	0.40	0.52
72	D37-D36	45	936	5.853	140	5412	5562	5.56	0.0644	0.645	209	0.30	0.30	800	0.06	270.08	270.08	269.35	269.30	0.73	0.71
73	D32-D36	51	2562	16.010	384	0	384	0.38	0.0044	0.645	209	0.30	0.30	800	0.08	269.97	270.01	269.57	269.49	0.40	0.52
74	D36-D35	35	728	4.352	109	5946	6056	6.06	0.0701	0.693	337	0.45	0.30	800	0.04	270.01	269.87	269.30	269.25	0.71	0.65
75	D35-D35	19	770	4.815	116	6056	6171	6.17	0.0714	0.693	337	0.45	0.30	800	0.02	269.87	269.87	269.23	269.21	0.64	0.56
76	D33-D34	13	271	1.651	41	6171	6212	6.21	0.0719	0.693	337	0.45	0.30	800	0.09	269.87	269.80	269.47	269.38	0.40	0.43
77	D24-D28	72	3924	24.265	599	6212	6811	6.81	0.0788	0.693	337	0.45	0.30	1150	0.07	269.80	269.87	269.20	269.13	0.60	0.74
78	D28-D27	81	3786	23.660	568	7846	8414	8.41	0.0974	0.640	415	0.50	0.30	1500	0.07	269.80	270.63	268.61	268.61	1.19	2.02
79	D27-D46	106	4306	26.912	646	46546	47192	47.19	0.5452	0.853	2072	0.90	0.75	1500	0.06	269.87	270.63	268.61	268.61	2.02	2.05
80	D25-D27	49	1020	6.373	153	47192	47344	47.34	0.5480	0.853	2072	0.90	0.75	1500	0.06	270.63	270.63	268.61	268.61	2.02	2.05
81	D53-D54	47	3979	24.871	597	0	597	0.60	0.0069	0.645	209	0.30	0.30	660	0.07	270.09	270.08	269.69	269.62	0.40	0.46
82	D54-D55	48	1049	6.556	157	597	754	0.75	0.0087	0.645	209	0.30	0.30	660	0.07	270.08	270.07	269.62	269.55	0.40	0.51
83	D52-D55	76	3032	18.948	455	0	455	0.45	0.0053	0.763	371	0.45	0.30	660	0.12	270.09	270.07	269.69	269.57	0.40	0.50
84	D58-D56	41	853	5.333	128	1209	1337	1.34	0.0155	0.763	371	0.45	0.30	660	0.06	270.07	269.87	269.55	269.48	0.53	0.39
85	D51-D56	105	4035	25.531	613	0	613	0.61	0.0071	0.763	371	0.45	0.30	660	0.16	270.06	269.97	269.65	269.50	0.40	0.37
86	D56-D49	40	832	5.203	125	1950	2075	2.07	0.0240	0.593	337	0.45	0.30	800	0.03	269.87	269.85	269.46	269.43	0.39	0.41
87	D50-D49	127	5293	33.081	794	0	794	0.79	0.0092	0.593	337	0.45	0.30	800	0.16	270.05	269.85	269.65	269.49	0.40	0.35
88	D49-D47	13	1252	8.014	192	2869	3061	3.06	0.0354	0.763	371	0.45	0.30	660	0.02	269.85	269.84	269.43	269.41	0.42	0.43
89	D47-D46	49	1020	6.373	153	3061	3214	3.21	0.0372	0.693	337	0.45	0.30	800	0.06	269.84	270.63	269.41	269.35	0.43	1.28
90	D3-E1	40	1532	9.578	230	0	229.865	0.22	0.0027	0.645	209	0.30	0.30	660	0.06	270.02	270.01	269.62	269.55	0.40	0.45
91	E-61	21	587	3.659	88	0	88.0559	0.09	0.0010	0.645	209	0.30	0.30	660	0.03	270.03	270.01	269.63	269.60	0.40	0.41
92	E1-E2	32	966	6.037	145	317.918	462.81	0.46	0.0054	0.645	209	0.30	0.30	660	0.05	270.01	270.02	269.56	269.51	0.45	0.51
93	E4-E2	43	1443	9.030	217	0	216.729	0.22	0.0025	0.645	209	0.30	0.30	660	0.07	270.02	270.02	269.62	269.55	0.40	0.43


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STORM WATER DRAINAGE, VATIKA AMBALA

Sr. No.	Name of Road	Length	Estimated Storm Water Generation		Estimated Storm Water Generation		Discharge		Velocity	Flow	Size of Drain			Slope	Full	Formation Level			Invert Level			Begin	
			Ratio fall intensity	Self	Previous	Total	M.D.	Cum.	M/sec	Cum/Hr	Width	Depth	Total Depth including free board			Upper end	Lower end	Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
			62.5								Mtrs.	Mtrs.	Mtrs.		M	M	M	M	M	M	M	M	M
94	B2-E21	18	1425	8304	214	679339	893228	0.89	0.0103	10	0.30	0.30	0.45	660	0.08	270.02	269.51	269.48	269.45	269.42	269.39	269.36	269.33
95	B2-E22	52	1082	6763	162	893228	1055555	1.06	0.0122	0.645	209	0.30	0.45	660	0.08	270.02	269.48	269.45	269.42	269.39	269.36	269.33	269.30
96	B5-E6	11	229	1431	34	243377	0.03	0.0004	0.645	209	0.30	0.30	0.45	660	0.06	270.00	269.85	269.84	269.83	269.82	269.81	269.80	269.79
97	B6-E8	40	832	5203	125	108589	121475	1.21	0.0141	0.645	209	0.30	0.45	660	0.05	269.86	269.85	269.84	269.83	269.82	269.81	269.80	269.79
98	B7-E8	31	1645	10282	247	0	24677	0.25	0.0029	0.645	209	0.30	0.45	660	0.05	269.85	269.80	269.79	269.78	269.77	269.76	269.75	269.74
99	B8-E12	113	2352	14696	353	146152	181427	1.81	0.0210	0.645	209	0.30	0.45	660	0.04	269.85	269.80	269.79	269.78	269.77	269.76	269.75	269.74
100	B9-E11	25	1688	10552	253	0	353238	0.25	0.0029	0.645	209	0.30	0.45	660	0.04	269.85	269.80	269.79	269.78	269.77	269.76	269.75	269.74
101	B10-E11	14	291	1821	44	0	437026	0.04	0.0005	0.645	209	0.30	0.45	660	0.02	269.87	269.87	269.87	269.87	269.87	269.87	269.87	269.87
102	B11-E11	51	4454	27335	658	296941	964989	0.96	0.0112	0.645	209	0.30	0.45	660	0.08	269.87	269.80	269.80	269.80	269.80	269.80	269.80	269.80
103	B12-E11	95	1977	12356	297	277926	307581	3.09	0.0356	0.645	209	0.30	0.45	660	0.14	269.80	270.50	269.17	269.03	269.03	269.03	269.03	269.03
104	B9-E8	58	9453	21584	518	0	518014	0.52	0.0060	0.645	209	0.30	0.45	660	0.09	270.15	270.07	269.25	269.55	269.55	269.55	269.55	269.55
105	B10-E8	23	1227	7672	184	0	184117	0.18	0.0021	0.645	209	0.30	0.45	660	0.03	270.07	270.07	269.67	269.64	269.64	269.64	269.64	269.64
106	B8-E6	54	2122	13264	318	702131	182046	1.82	0.0119	0.645	209	0.30	0.45	660	0.10	270.08	270.02	269.68	269.55	269.55	269.55	269.55	269.55
107	B7-E6	66	3870	24184	580	0	580426	0.58	0.0067	0.645	209	0.30	0.45	660	0.10	270.08	270.02	269.68	269.55	269.55	269.55	269.55	269.55
108	B6-E4	54	1122	13264	318	160088	191921	1.92	0.0222	0.645	209	0.30	0.45	660	0.08	270.02	269.96	269.55	269.47	269.47	269.47	269.47	269.47
109	B14-E12	127	9917	61984	1488	0	14876	1.49	0.0172	0.645	209	0.30	0.45	660	0.19	270.30	269.90	269.90	269.90	269.90	269.90	269.90	269.90
110	B12-E11	54	1942	12139	291	14876	177894	1.78	0.0266	0.645	209	0.30	0.45	660	0.08	269.90	269.85	269.71	269.63	269.63	269.63	269.63	269.63
111	B13-E11	132	8238	51489	1236	0	123573	1.24	0.0143	0.645	209	0.30	0.45	660	0.20	270.00	269.85	269.80	269.80	269.80	269.80	269.80	269.80
112	B13-E9	56	2393	14957	359	301467	337363	3.37	0.0380	0.645	209	0.30	0.45	660	0.08	269.85	269.86	269.96	269.96	269.96	269.96	269.96	269.96
113	B5-E4	64	4077	25484	612	0	611623	0.61	0.0071	0.645	209	0.30	0.45	660	0.10	270.03	269.96	269.63	269.53	269.53	269.53	269.53	269.53
114	B4-E2	54	1124	7024	169	590447	607303	6.07	0.0703	0.768	560	0.45	0.6	800	0.07	269.96	269.96	269.32	269.25	269.25	269.25	269.25	269.25
115	B3-E2	34	5243	32766	786	0	786376	0.79	0.0091	0.645	209	0.30	0.45	660	0.13	269.98	269.96	269.58	269.45	269.45	269.45	269.45	269.45
116	C47-E3	138	2872	17949	431	0	430783	0.43	0.0050	0.645	209	0.30	0.45	660	0.21	270.14	269.86	269.74	269.53	269.53	269.53	269.53	269.53
117	E2-E1	36	2044	12776	307	725019	755682	7.60	0.0879	0.768	560	0.45	0.6	800	0.05	269.96	269.86	269.25	269.20	269.20	269.20	269.20	269.20
118	E1-E15	46	957	5983	144	759682	774041	7.74	0.0896	0.768	560	0.45	0.6	800	0.06	269.86	269.85	269.20	269.15	269.15	269.15	269.15	269.15
119	E16-E15	313	7592	46198	1109	0	110874	1.11	0.0128	0.645	209	0.30	0.45	660	0.17	269.86	269.85	269.56	269.39	269.39	269.39	269.39	269.39
120	E18-E17	71	1478	9235	222	884315	907079	9.07	0.1050	0.768	560	0.45	0.6	800	0.09	269.85	269.81	269.15	269.06	269.06	269.06	269.06	269.06
121	E18-E17	121	7138	44613	1071	0	107072	1.07	0.0124	0.645	209	0.30	0.45	660	0.18	269.92	269.81	269.52	269.34	269.34	269.34	269.34	269.34
122	E17-E19	71	1478	9235	222	107415	103631	10.36	0.1199	0.768	560	0.45	0.6	800	0.09	269.81	269.76	269.06	269.57	269.57	269.57	269.57	269.57



STORM WATER DRAINAGE, VATIKA AMBALA

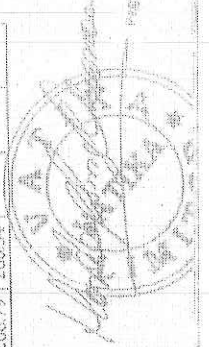
Sr No.	Name of Road	Length	Estimated Storm Water Generation		Estimated Storm Water Generation		Discharge		Velocity	Flow	Size of Drain			Slope	Fall	Formation Level		Invert Level		Depth	
			Peak	Intensity	Self	Previous	Total	M.D.	Cum.	M/sec	Cum/Hr.	Width	Depth	Total Depth including free board		Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
				62.5								Mtrs.	Mtrs.	Mtrs.	M	M	M	M	M	M	M
125	E30-E19	131	7346	45.914	1102	0	1101.93	110	0.0128	0.645	209	0.30	0.30	0.45	16	269.87	269.76	269.47	269.27	0.40	0.40
126	E19-E8	72	1498	9.365	225	11465.1	1169	0.1353	0.711	1152	1152	0.30	0.75	0.9	1500	269.76	269.71	269.97	268.92	0.79	0.79
127	D8-D7	22	458	2.361	69	11689.8	1176	0.1361	0.711	1152	1152	0.60	0.75	0.9	1500	269.71	269.73	268.92	268.90	0.75	0.83
128	D12-D11	78	3023	18.896	434	0	453.312	0.45	0.0052	0.645	209	0.30	0.30	0.45	660	269.88	269.73	269.40	269.36	0.40	0.37
129	D11-D10	48	2604	16.273	391	453.312	844.074	0.84	0.0098	0.645	209	0.30	0.30	0.45	660	269.73	269.76	269.36	269.29	0.37	0.42
130	D10-D9	50	2241	14.004	336	1510.73	1846.84	1.85	0.0214	0.645	209	0.30	0.30	0.45	660	269.76	269.79	269.52	269.40	0.40	0.36
131	D9-D8	80	4465	27.908	670	0	669.792	0.67	0.0078	0.645	209	0.30	0.30	0.45	660	269.79	269.79	269.29	269.21	0.47	0.59
132	D8-D7	60	2049	12.805	307	2516.62	2823.93	2.82	0.0327	0.645	209	0.30	0.30	0.45	660	269.94	269.79	269.54	269.42	0.40	0.37
133	D7-D6	80	3734	23.339	550	0	560.134	0.56	0.0065	0.645	209	0.30	0.30	0.45	660	269.79	269.82	269.21	269.12	0.38	0.44
134	D6-D5	62	1290	8.064	194	3384.06	3877.5	3.88	0.0414	0.645	209	0.30	0.30	0.45	660	269.82	269.83	269.50	269.38	0.40	0.44
135	D5-D4	154	5286	33.037	793	3577.6	4370.49	4.37	0.0506	0.645	209	0.30	0.30	0.45	660	269.83	269.83	269.43	269.05	0.40	0.78
136	D4-D3	58	14647	91.544	2197	4370.49	4567.55	6.57	0.0760	0.768	560	0.45	0.45	0.6	800	269.83	269.73	269.03	268.96	0.80	0.77
137	D3-D2	254	5286	33.037	793	0	0.00	0.00	0.645	0.645	209	0.30	0.30	0.45	660	269.83	269.73	269.43	269.05	0.40	0.59
138	E59-E57	44	1843	11.518	276	0	276.441	0.28	0.0032	0.645	209	0.30	0.30	0.45	660	269.73	269.67	268.98	268.87	0.82	0.81
139	E58-E57	23	978	6.112	147	0	146.677	0.15	0.0017	0.645	209	0.30	0.30	0.45	660	269.68	269.76	269.28	269.21	0.40	0.55
140	E57-E56	59	2258	30.237	486	423.118	908.809	0.91	0.0105	0.645	209	0.30	0.30	0.45	660	269.76	269.73	269.36	269.12	0.55	0.59
141	E56-E55	45	3955	24.969	599	0	599.257	0.60	0.0069	0.645	209	0.30	0.30	0.45	660	269.88	269.73	269.28	269.21	0.40	0.51
142	E55-E54	56	1920	11.999	288	1508.07	1796.04	1.80	0.0208	0.645	209	0.30	0.30	0.45	660	269.73	269.69	269.12	269.04	0.51	0.53
143	E54-E53	83	4722	29.516	708	0	708.374	0.71	0.0082	0.645	209	0.30	0.30	0.45	660	269.55	269.69	269.15	269.02	0.40	0.57
144	E53-E52	85	4238	26.486	636	0	635.653	0.64	0.0074	0.645	209	0.30	0.30	0.45	660	269.87	269.84	269.02	268.90	0.85	0.94
145	E52-E51	51	4373	27.393	655	635.653	1291.65	1.29	0.0149	0.645	209	0.30	0.30	0.45	660	269.84	269.79	269.44	269.36	0.40	0.43
146	E51-E50	49	1020	6.373	153	3796.06	3949.02	3.95	0.0457	0.645	209	0.30	0.30	0.45	660	269.79	269.77	269.30	268.82	0.89	0.95
147	E50-E49	84	5067	31.672	760	0	760.12	0.76	0.0088	0.645	209	0.30	0.30	0.45	660	269.66	269.77	269.26	269.13	0.40	0.64
148	E49-E48	48	2247	14.043	337	0	337.037	0.34	0.0039	0.645	209	0.30	0.30	0.45	660	269.66	269.77	269.43	269.36	0.40	0.41
149	E48-E47	43	2259	14.118	339	5046.17	5385.01	5.39	0.0523	0.768	560	0.45	0.45	0.6	800	269.77	269.75	268.52	268.76	0.55	0.59
150	E47-E46	89	4719	29.493	708	0	707.822	0.71	0.0082	0.645	209	0.30	0.30	0.45	660	269.75	269.73	268.52	268.70	0.55	0.59
151	E46-E45	45	2196	13.728	329	689.284	6422.32	6.42	0.0743	0.768	560	0.45	0.45	0.6	800	269.65	269.75	269.25	269.11	0.40	0.52
152	E45-E44	98	3189	15.932	478	0	478.39	0.48	0.0055	0.645	209	0.30	0.30	0.45	660	269.75	269.73	269.24	269.11	0.40	0.51
153	E44-E43	10	1048	6.551	157	6900.21	7057.32	7.06	0.0817	0.768	560	0.45	0.45	0.6	800	269.73	269.73	268.70	268.62	1.03	1.06
154	E43-E42	88	2281	20.507	492	0	492.179	0.49	0.0057	0.645	209	0.30	0.30	0.45	660	269.64	269.73	269.24	269.11	0.40	0.62
155	E42-E41	45	2196	13.728	329	7550.1	7879.57	7.88	0.0912	0.768	560	0.45	0.45	0.6	800	269.73	269.71	268.69	268.64	1.04	1.06



 Vatika Limited, Ambala

STORM WATER DRAINAGE, VATIKA AMBALA

STORM WATER DRAINAGE - WATER DRAINAGE																								
Sr. No.	Name of Road	Length	Estimated Storm Water Generation		Estimated Storm Water Generation	Discharge		Velocity	Flow	Size of Drain			Slope	Fall	Formation Level		Invert Level		Depth					
			Rain fall Intensity	Self		Previous	Total			MLD	Cum.	M/sec			Cum/Hr.	Width	Depth	Total Depth including free board	Upper end	Lower end	Upper end	Lower end	Upper end	Lower end
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	1	2																						
156	E42-E41	81	4100	25.623	615	0	614.963	0.61	0.0071	0.645	209	0.30	0.30	0.45	660	0.12	269.63	269.71	269.23	269.11	0.40	0.60	0.50	
157	E41-E40	50	2301	14.378	345	8494.54	8839.62	5.84	0.1023	0.768	560	0.45	0.45	0.6	800	0.06	269.71	269.69	269.64	268.57	1.07	1.12	1.10	
158	E39-E40	74	3652	22.827	548	0	547.847	0.55	0.0063	0.645	209	0.30	0.30	0.45	660	0.11	269.62	269.69	269.72	269.11	0.40	0.58	0.59	
159	E40-E21	70	2717	16.980	408	9327.46	9794.98	9.79	0.1134	0.768	560	0.45	0.45	0.6	800	0.09	269.69	269.67	268.57	268.49	1.12	1.18	1.15	
160	E21-E22	74	21706	135.664	3256	28703.8	31959.8	31.95	0.3699	0.735	1428	0.60	0.60	1.05	1500	0.05	269.57	269.75	269.49	268.44	1.18	1.21	1.15	
161	E22-E23	117	4955	30.968	743	31959.8	32703	32.70	0.3785	0.735	1428	0.60	0.60	1.05	1500	0.08	269.75	270.63	268.44	268.36	1.31	1.27	1.19	
162	E23-E27	90	1665	10.405	250	32703	32952.7	32.95	0.3814	0.735	1428	0.60	0.60	1.05	1500	0.05	276.63	268.55	268.36	268.31	1.27	1.24	1.15	
163	E28-E27	96	6618	41.361	993	0	992.675	0.99	0.0115	0.645	209	0.30	0.30	0.45	680	0.15	269.62	269.55	269.22	269.07	0.40	0.48	0.44	
164	E27-E28	66	1415	8.845	212	33945.4	34157.7	34.16	0.3953	0.735	1428	0.60	0.60	1.05	1500	0.05	269.55	269.53	268.31	268.26	1.24	1.27	1.16	
165	E37-E28	88	6031	37.696	905	0	904.702	0.90	0.0105	0.645	209	0.30	0.30	0.45	660	0.13	269.47	269.53	269.07	268.94	0.40	0.54	0.50	
166	E28-E29	68	1415	8.845	212	35062.4	35274.6	35.27	0.4093	0.761	1478	0.60	0.60	1.05	1400	0.05	269.53	269.51	268.26	268.21	1.27	1.30	1.28	
167	E36-E29	80	5025	31.405	754	0	753.729	0.75	0.0087	0.645	209	0.30	0.30	0.45	660	0.12	269.45	269.49	269.34	268.09	1.00	0.90	0.70	
168	E29-E30	88	1415	8.845	212	36028.4	36240.6	36.24	0.4195	0.761	1478	0.60	0.60	1.05	1400	0.05	270.14	269.49	269.34	268.09	1.00	0.90	0.70	
169	A12-A11	83	4528	28.298	679	0	679.146	0.68	0.0079	0.645	209	0.30	0.30	0.45	660	0.13	270.20	270.02	269.60	269.67	0.40	0.55	0.57	
170	A9-A11	32	666	4.162	100	0	99.6916	0.10	0.0012	0.645	209	0.30	0.30	0.45	660	0.05	270.15	270.02	269.75	269.70	0.40	0.53	0.35	
171	A11-A14	60	1269	7.804	187	779.038	966.335	0.97	0.0312	0.645	209	0.30	0.30	0.45	660	0.05	270.15	270.01	269.67	269.58	0.35	0.43	0.39	
172	A13-A14	33	1687	11.793	283	0	283.096	0.28	0.0033	0.645	209	0.30	0.30	0.45	660	0.08	270.01	270.00	269.58	269.50	0.43	0.50	0.45	
173	A14-A15	52	3282	20.515	492	1249.37	1741.74	1.74	0.0292	0.645	209	0.30	0.30	0.45	660	0.05	270.00	269.99	269.50	269.46	0.50	0.62	0.46	
174	A15-A19	32	1722	10.762	258	1741.74	2000.03	2.00	0.0231	0.645	209	0.30	0.30	0.45	660	0.08	269.55	270.14	269.15	269.07	0.40	1.07	0.73	
175	A18-A19	52	3961	24.755	594	0	594.11	0.59	0.0069	0.645	209	0.30	0.30	0.45	660	0.10	270.63	270.14	269.07	268.97	1.54	1.17	1.37	
176	A19-A21	68	4372	27.525	656	2594.14	3249.93	3.25	0.0376	0.645	209	0.30	0.30	0.45	660	0.12	270.14	269.89	268.97	268.95	1.17	1.04	1.11	
177	A21-E25	78	4158	25.985	624	3249.93	3873.57	3.87	0.0448	0.645	209	0.30	0.30	0.45	660	0.19	270.22	270.10	269.82	269.63	0.40	0.47	0.44	
178	A3-A1	126	7319	45.742	1098	0	1097.8	1.10	0.0127	0.645	209	0.30	0.30	0.45	660	0.17	270.00	270.10	269.60	269.43	0.40	0.67	0.53	
179	A-A1	112	6854	41.589	998	0	998.136	1.00	0.0116	0.645	209	0.30	0.30	0.45	660	0.10	270.10	270.02	269.43	269.32	0.67	0.69	0.65	
180	A1-A6	69	1436	8.875	215	2085.94	2311.33	2.31	0.0268	0.645	209	0.30	0.30	0.45	660	0.10	270.10	270.02	269.43	269.32	0.67	0.69	0.65	
181	A7-A6	116	8263	51.646	1249	0	1239.51	1.24	0.0143	0.645	209	0.30	0.30	0.45	660	0.18	270.03	270.02	269.63	269.45	0.40	0.57	0.48	
182	A6-A5	50	4401	27.503	660	3550.84	4210.92	4.21	0.0487	0.645	209	0.30	0.30	0.45	660	0.08	270.02	269.90	269.33	269.25	0.69	0.65	0.57	
183	A6-A5	62	4650	29.054	698	0	697.54	0.70	0.0081	0.645	209	0.30	0.30	0.45	660	0.09	276.00	269.90	268.90	268.71	1.20	1.19	1.10	
184	A5-A8	170	9070	50.435	1210	4948.46	6118.91	6.12	0.0708	0.768	560	0.45	0.45	0.6	800	0.21	269.90	269.85	269.35	269.14	0.55	0.71	0.63	
185	A6-E25	278	10925	68.280	1639	6118.91	7757.64	7.76	0.0898	0.768	560	0.45	0.45	0.6	800	0.35	269.85	269.55	269.14	268.79	0.71	0.76	0.74	
186	E25-E30	164	3413	21.331	512	11631.2	12143.2	12.14	0.1405	1.072	1737	0.60	0.75	0.9	660	0.25	269.55	269.55	268.79	268.54				



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STORM WATER DRAINAGE, VATIKA AMBALA

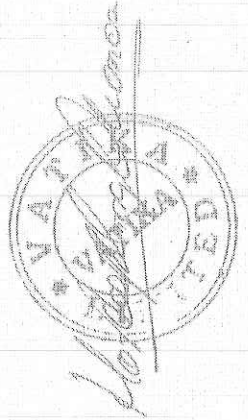
STORM WATER DRAINAGE VATIKA AMBALA																					
Sr. No.	Name of Road	Length	Estimated Storm Water Generation		Discharge	Velocity	Flow	Size of Drain			Slope	Fall	Formation Level		Invert Level		Depth				
			Rain fall Intensity	Self				Previous	Total	MLD			Cum.	M/sec	Cum/Hr	Width	Depth	Total Depth including free board	M	M	M
1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
187	E35-E30	71	4838	30.235	726	0	725.635	0.73	0.0084	0.645	209	0.30	0.30	0.45	0.11	269.43	269.49	269.03	268.92	0.40	0.57
188	E30-E31	68	1415	8.845	212	49109.4	49321.7	49.32	0.5709	0.848	2060	0.75	0.90	1.05	0.05	269.49	269.45	268.54	268.49	0.95	0.95
189	E34-E31	62	3810	23.814	572	0	571.54	0.57	0.0066	0.645	209	0.30	0.30	0.45	0.09	269.41	269.45	269.01	268.92	0.40	0.53
190	E31-E32	21	639	3.996	96	49893.2	49893.1	49.99	0.5795	0.848	2060	0.75	0.90	1.05	0.02	269.45	269.43	268.49	268.48	0.95	0.95
191	E33-E32	70	2344	14.947	352	0	351.533	0.35	0.0041	0.645	209	0.30	0.30	0.45	0.11	269.39	269.43	268.99	268.88	0.40	0.55
192	E32-Que Fall	49	0	0.000	0	50340.7	50340.7	50.34	0.5826	0.848	2060	0.75	0.90	1.05	0.04	269.43	269.43	268.49	268.44	0.95	0.95
	Total	13229			104773		116.118	1.34596											268.25		


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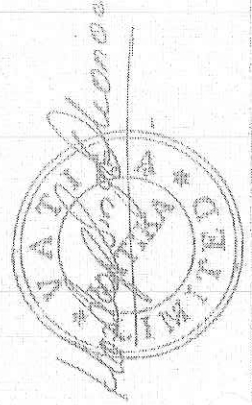
 Authorised Signatory

Sr No.	Name of Road	Length	Apparatuses of storm water				Length	Length	Length	Length	Length
			Storm Drain 0.30M x0.30 M	Storm Drain 0.45 M x0.45 M	Storm Drain 0.60M x0.75M	Storm Drain 0.75 M x0.90M	Storm Drain 0.9 M x0.9 M				
			M	M	M	M	M	M	M	M	M
1	C46-C42	115	4	6	3	10	12				
2	C42-C40	50	50	0	0	0	0				
3	C45-C40	132	132	0	0	0	0				
4	C40-C39	50	50	0	0	0	0				
5	C44-C39	131	131	0	0	0	0				
6	C39-C37	50	50	0	0	0	0				
7	C38-C37	120	120	0	0	0	0				
8	C37-C35	50	0	50	0	0	0				
9	C36-C35	89	89	0	0	0	0				
10	C29-C27	48	48	0	0	0	0				
11	C27-C26	39	39	0	0	0	0				
12	C30-C28	70	70	0	0	0	0				
13	C28-C25	21	21	0	0	0	0				
14	C31-C33	114	114	0	0	0	0				
15	C38-C34	39	39	0	0	0	0				
16	C31-C34	92	92	0	0	0	0				
17	C34-C25	16	16	0	0	0	0				
18	C38-C22	23	23	0	0	0	0				
19	C24-C23	29	29	0	0	0	0				
20	C23-C22	41	41	0	0	0	0				
21	C22-C21	165	165	0	0	0	0				
22	C21-C35	71	0	0	71	0	0				
23	C35-C41	34	0	0	0	34	0				
24	C43-C41	175	0	175	0	0	0				
25	C41-C38	97	0	0	97	0	0				
26	C18-C17	21	0	0	21	0	0				
27	C15-C13	122	122	0	0	0	0				
28	C13-C9	65	65	0	0	0	0				
29	C1-C2	111	111	0	0	0	0				
30	C2-C3	59	59	0	0	0	0				
31	C4-C3	100	100	0	0	0	0				



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Sr No.	Name of Road	Length	Appurtenances of storm water					Length
			Storm Drain 0.30M x0.30 M	Storm Drain 0.45 M x0.45 M	Storm Drain 0.60M x0.75M	Storm Drain 0.75 M x0.90M	Storm Drain 0.9 M x1.0 M	
			M	M	M	M	M	M
	1	2	4	6	8	10	12	
63	D29-D28	44	44	0	0	0	0	0
64	D45-D42	135	135	0	0	0	0	0
65	D43-D42	32	32	0	0	0	0	0
66	D42-D41	45	45	0	0	0	0	0
67	D44-D41	134	134	0	0	0	0	0
68	D41-D39	45	45	0	0	0	0	0
69	D40-D39	114	114	0	0	0	0	0
70	D39-D37	45	0	45	0	0	0	0
71	D38-D37	83	83	0	0	0	0	0
72	D37-D36	45	0	45	0	0	0	0
73	D32-D36	51	51	0	0	0	0	0
74	D36-D35	35	0	35	0	0	0	0
75	D35-D33	19	0	19	0	0	0	0
76	D34-D34	13	0	13	0	0	0	0
77	D34-D28	72	0	72	0	0	0	0
78	D28-D27	81	0	0	81	0	0	0
79	D27-D46	106	0	0	0	0	106	
80	D46-D47	49	0	0	0	0	49	
81	D53-D54	47	47	0	0	0	0	0
82	D54-D55	48	48	0	0	0	0	0
83	D52-D55	76	0	76	0	0	0	0
84	D55-D56	41	0	41	0	0	0	0
85	D51-D56	105	0	105	0	0	0	0
86	D56-D49	40	0	40	0	0	0	0
87	D50-D49	127	0	127	0	0	0	0
88	D49-D47	13	0	13	0	0	0	0
89	D47-D41	49	0	49	0	0	0	0
90	B3-B1	40	40	0	0	0	0	0
91	B4-B1	21	21	0	0	0	0	0
92	B1-B2	32	32	0	0	0	0	0
93	B4-B2	43	43	0	0	0	0	0

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Handwritten signature
 VATIC LIMITED

Sr No.	Name of Road	Length	Appurtenances of storm water				
			Storm Drain 0.20M x0.30 M	Storm Drain 0.45 M x0.45 M	Storm Drain 0.60M x0.75M	Storm Drain 0.75 M x0.90M	Storm Drain 0.9 M x0.9 M
			Length	Length	Length	Length	Length
			M	M	M	M	M
94	B1-B21	18	0	0	0	0	0
95	B21-B6	52	0	0	0	0	0
96	B5-B6	11	0	0	0	0	0
97	B6-B8	40	0	0	0	0	0
98	B7-B8	31	0	0	0	0	0
99	B8-B12	113	0	0	0	0	0
100	B9-B11	25	0	0	0	0	0
101	B10-B11	14	0	0	0	0	0
102	B11-B12	51	0	0	0	0	0
103	B12-B13	95	0	0	0	0	0
104	B9-B23	58	0	0	0	0	0
105	B20-B8	23	0	0	0	0	0
106	B8-B8	54	0	0	0	0	0
107	B7-B8	66	0	0	0	0	0
108	B8-B4	54	0	0	0	0	0
109	B14-B12	127	0	0	0	0	0
110	B12-B11	54	0	0	0	0	0
111	B12-B11	132	0	0	0	0	0
112	B11-B4	56	0	0	0	0	0
113	B5-B4	64	0	0	0	0	0
114	B4-E2	54	0	54	0	0	0
115	B3-E2	84	0	0	0	0	0
116	C47-E1	138	0	0	0	0	0
117	E2-E1	36	0	36	0	0	0
118	E1-E15	46	0	46	0	0	0
119	E16-E19	113	0	0	0	0	0
120	E15-E17	71	0	71	0	0	0
121	E18-E17	121	0	0	0	0	0
122	E17-E19	71	0	71	0	0	0

For VATIKA LIMITED
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Sr No.	Name of Road	Length	Appurtenances of storm water			
			Storm Drain 0.30M x0.30 M	Storm Drain 0.45 M x0.45 M	Storm Drain 0.60M x0.75M	Storm Drain 0.9 M x0.9 M
			Length	Length	Length	Length
			M	M	M	M
		2	6	6	8	12
123	E20-E19	131	0	0	0	0
124	E19-D8	72	0	0	72	0
125	D8-D7	22	0	0	22	0
126	D12-D11	78	0	0	0	0
127	D11-D10	48	0	0	0	0
128	D13-D10	79	0	0	0	0
129	D10-D9	50	0	0	0	0
130	D14-D9	80	0	0	0	0
131	D9-D4	56	0	0	0	0
132	D3-D4	80	0	0	0	0
133	D4-D3	62	0	0	0	0
134	D5-D6	254	0	0	0	0
135	D6-D7	58	0	58	0	0
136	D6-D7	254	0	0	0	0
137	D7-E21	58	0	0	58	0
138	E59-E57	44	0	0	0	0
139	E58-E57	23	0	0	0	0
140	E57-E56	59	0	0	0	0
141	E60-E56	45	0	0	0	0
142	E56-E52	36	0	0	0	0
143	E55-E52	63	0	0	0	0
144	E54-E53	85	0	0	0	0
145	E53-E51	51	0	0	0	0
146	E52-E49	49	0	0	0	0
147	E50-E49	84	0	0	0	0
148	E51-E49	48	0	0	0	0
149	E49-E48	48	0	48	0	0
150	E47-E48	89	0	0	0	0
151	E48-E44	45	0	45	0	0
152	E46-E44	88	0	0	0	0
153	E44-E43	10	0	10	0	0
154	E45-E43	88	0	0	0	0
155	E43-E41	45	0	45	0	0

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Sr No.	Name of Road	Length	Appurtenances of storm water				
			Storm Drain 0.20M x0.30 M	Storm Drain 0.45 M x0.45 M	Storm Drain 0.60M x0.75M	Storm Drain 0.75 M x0.90M	Storm Drain 0.9 M x0.9 M
			Length	Length	Length	Length	Length
			M	M	M	M	M
	1	2	4	6	8	10	12
156	E42-E41	81	0	0	0	0	0
157	E41-E40	50	0	50	0	0	0
158	E39-E40	74	74	0	0	0	0
159	E40-E21	70	0	70	0	0	0
			0	0	0	0	0
160	E21-E22	74	0	0	74	0	0
161	E22-E23	117	0	0	117	0	0
162	E23-E27	80	0	0	80	0	0
163	E30-E27	96	96	0	0	0	0
164	E27-E28	68	0	0	68	0	0
165	E37-E28	88	88	0	0	0	0
166	E28-E29	68	0	0	68	0	0
167	E36-E29	80	80	0	0	0	0
168	E29-E30	68	0	0	68	0	0
169	A12-A11	83	83	0	0	0	0
170	A9-A11	32	32	0	0	0	0
171	A11-A14	60	60	0	0	0	0
172	A13-A14	33	33	0	0	0	0
173	A14-A15	52	52	0	0	0	0
174	A15-A19	32	32	0	0	0	0
175	A18-A19	52	52	0	0	0	0
176	A19-A21	68	68	0	0	0	0
177	A21-E25	78	78	0	0	0	0
178	A3-A1	126	126	0	0	0	0
179	A-A1	112	112	0	0	0	0
180	A1-A6	69	69	0	0	0	0
181	A7-A6	116	116	0	0	0	0
182	A6-A5	50	50	0	0	0	0
183	A4-A5	62	62	0	0	0	0
184	A5-A8	170	0	170	0	0	0
185	A8-E25	278	0	278	0	0	0
186	E25-E30	164	0	0	164	0	0



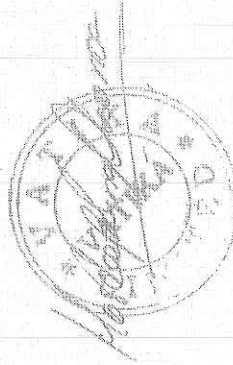
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Appurtenances of storm water					
Sr No.	Name of Road	Length	Storm Drain 0.30M x0.30 ft	Storm Drain 0.45 M x0.45 M	Storm Drain 0.60M x0.90M
			Length	Length	Length
			M	M	M
		2	4	6	12
187	E35-E30	71	71	0	0
188	E30-E31	68	0	0	58
189	E34-E31	62	62	0	0
190	E31-E32	21	0	0	21
191	E33-E32	70	70	0	0
192	E32-Our Fall	49	0	0	49
	Total	1222	8560	2355	930

Director



For VATIKA LIMITED
 Authorised Signatory



हरियाणा शहरी विकास प्राधिकरण

Haryana Urban
Development Authority

Tel : 0172-2570982
Toll Free No. : 1800-180-3030
Website : www.huda.org.in
Email : cehghuda@gmail.com

Address : C-3, HUDA HQ Sector-6
Panchkula

C.E.II-No.
Dated:
Annexure-A

SUB:- Approval of Revised service plan/estimate of Residential Plotted Colony on the land measuring 174.373 acres (License No. 256 of 2007 dated 7.11.2007 and No. 100 of 2014 dated 13.8.2014) falling in Sec-21, 22, 23 & 25 Ambala City being developed by M/S. Vatika Ltd.

Technical note and comments:-

1. All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
2. The correctness of the levels will be the sole, responsibility of the colonizer for the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution.
3. The material to be used shall the same specifications as are being adopted by HUDA and further shall also confirm to such directions, as issued by Chief Engineer, HUDA from time to time.
4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HUDA. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HUDA from time to time.
5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ HUDA. All link connections with the State Government/ HUDA system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision according to EDC deposited.
6. Structural design & drawings of all the structures, such as pump chamber, boosting chamber, RCC OHSR underground tanks quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber for Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications; colonizer himself will be responsible for structural stability of all structures.

SP-2
FE (H.O.)
सिद्धान्त

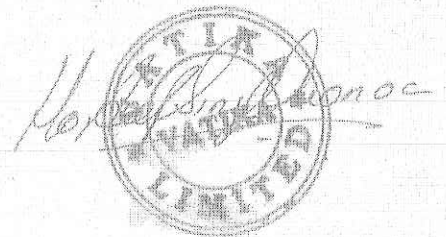
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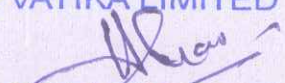
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4	Design Statement of W/S	25-42 18
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DRAWINGS

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