

PROVIDING SERVICE ESTIMATE FOR VATIKA CITY CENTER AT AMBALA

Sub work No's 3

Sewer

Sub head No's 2

Temporary Disposal

1. Provision for Construction of sump well of R.C.C slab 1:1.5:3 under bed 1:4:8 including cost of excavation, R.C.C Complete in all respect at various site.

*Provision for STP of 2000 KLD
Complete in all respect
upto tertiary level
including cost of
package units*

i. TPS No's 1 and 7. 0.16 cusecs of 1.40mtr(4.00ft) dia 2No's @ Rs 1, 00,000/- each	Rs 2,00,000-00
ii. TPS No's 2 0.49 cusecs of 2.40mtr(8.00ft)dia 1No's @Rs 3, 00,000/-each	Rs 3,00,000-00
iii. TPS No's 3 0.92 cusecs of 3.35mtr(11.00ft)dia 1No's @Rs 350,000/-each	Rs 350,000-00
iv. TPS 4 0.22 cusecs of 1.70mtr(5.050ft)dia 1No's @Rs 50,000/-each	Rs 150,000-00
v. TPS No's 5 0.26 cusecs of 1.75mtr(5.75ft)d 1No's @Rs 200,000/-each	Rs 200,000-00
vi. TPS No's 6 0.60 cusecs of 2.66mtr(8.75ft)d 1No's @Rs 180,000/- each	Rs 180,000-00

*L.S. cost 6 350.00
Lac*

2. Provision for providing and installation of No's n clog submersible pumping set at various TPS Complete in all respect

i. TPS No's 1 and 7 272LPM with 12mtr head 4No's @Rs 50,000/- each(1.00HP)	Rs 200,000-00
ii. TPS No's 2 834 LPM with 12mtr head 2No's @ Rs 75000/-each(5.00HP)	Rs 150,000-00
iii. TPS No's 3 1566LPM with 12mtr head 2No's @Rs 100,000/-each(7.50HP)	Rs 200,000-00
iv. TPS No's 4 380CPM with 12 mtr head 2No's @Rs 60,000/-Each(2.00HP)	Rs 120,000-00
v. TPS No's 5 443LPM with 12 mtr head 2No's @Rs 50000/-each(2.00HP)	Rs 100,000-00
vi. TPS No's 6 1022LPM with 12mtr head 2No's @Rs 75000/each(3.00HP)	Rs 150,000-00

3. Provision for providing and fixing of panel Board with all accessories complete in all Respect

7No's @Rs 25000/- each	Rs 175,000-00
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4. Provision for confution of pump chamber at TPS No's 3,4 and TPS No's 6 complete in all respect 12. ft(3.65m)dia

3No's @Rs 200000/-each	Rs 600,000-00
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5. Provision for C.I/D.I rising main from TPS to Next Main hole Complete in all respect	
a. TPS No's 1 and 7 100mm/d=165mtr@ Rs 1200/per mtr	Rs 198,000-00
b. TPS No's 2 and 6 200mm/d=60+60=120mtr@ Rs 2000/per mtr	Rs 240,000-00
c. TPS No's 3 250mm=180mtr@ Rs 2625/per mtr	Rs 472,500-00
d. TPS No's 4 and 5	
e. 150mm=80+60=140mtr@ Rs 1500/per mtr	Rs 210,000-00
6. Providing and fixing C.I/D.I flanged sluice valve Including cost of sluice valve chamber complete in all respect	
i. 100mm=4No's@ Rs 12000/-each	Rs 480000-00
ii. 150mm=4No's@ Rs 14000/-each	Rs 560000-00
iii. 200mm=4No's@ Rs 18000/each	Rs 720000-00
iv. 250mm=2No's@ Rs 25000/each	Rs 50000-00
7. Provision for electrification in pump chamber 3No's @20000/each	Rs 60000-00
8. Provision for electric connection from reagent pole 6No's @ Rs 50000.each	Rs 300000-00
9. Provision for generator set at various TPS 3No's @ Rs 500000/each	Rs 1500000-00
10. Provision for lowering of sub soil water table by well point System complete in all respect at various TPS 7No's @Rs 80000/each	Rs 560000-00
11. Provision for heavy cement concrete under bed Of TPS due to sub soil (L/S)	Rs 300000-00
12. Provision for consecution of STP for treated sewage Waste water 2.00MLD (LS)	Rs 25000000-00
13. Provision for constriction of effluent drain(LS)	Rs 300000-00
14. Provision for constriction of Road staff quarter at STP	Rs 500000-00
15. Provision for carriage of material (LS)	Rs 500000-00
C.O to abstract of cost sub work No's 3	Rs 3,34,41,500-00
	say 334.42lacs



For VATIKA LIMITED

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PROVIDING SERVICE ESTIMATE FOR VATIKA CITY CENTER AT AMBALA

DESIGN CALCULATION

STORM WATER DRAIN

- I. The originally the scheme was approved for with Pumping in four No's pumping station i.e. called for Block A,B,C and D Now the revised scheme has been designed by gravity and all the pumping station deleted in revised service plan the detail of revised plan as under. =152.304 Acre (Original Area)

DESIGN CALCULATION

- | | | |
|------|--------------------------------|---------------------------------|
| I. | Total area as per revised plan | = 174.37 Acres |
| II. | Intensity of rain fall | =1/4" per Acres |
| III. | Total discharge in cusecs | =174.37/4 |
| | | =43.59 cusecs say 43.60 cusecs. |

The storm water drainage has been disposed of by gravity in to modal town drain, at the 3 No's. sites, as under

- | | | |
|----|---|-------------------------------|
| 1. | One site at point D 46-out fall (Model Town Drain) | = 81.37 Acres or 20.34 cusecs |
| 2. | 2 nd site at point B12-out fall (Model Town Drain) | = 6.00 Acres or 1.50 cusecs |
| 3. | 3 rd site at point E32-out fall (Model Town Drain) | =87.00 Acres or 21.75 cusecs |
| | Total | =174.37 Acres or 43.59 cusecs |
| | | Say 43.60 cusecs |

The following size of covered drain has been taken in the estimate and already constructed at site.

1. 300mm x 300mm
2. 450mm x 450mm
3. 600mm x 600mm
4. 900mm x 900mm

All the drain will be disposed off in to Model Town drain by gravity as per hydraulic statement prepared accordingly.



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Cost Estimation of Sub Work No. 4
(Storm Water Drainage)

(Pumping Machinery)

Sub Head No. 1

152.30 Acres

Additional Area 22.07 Acres

Description	Qty.	Unit	Rate in Rs	Amount in Rs	Qty.	Unit	Rate in Rs	Amount in Rs
Provision for Pumping Station as per approval service estimate				7616240				

(Drain)

Sub Head No. 2

152.30 Acres

Additional Area 22.07 Acres

Construction of Rectangular covered open drain with cement concrete 1:4:8 under bed, concrete concrete 1:2:4 under Bed, RCC slab 1:2:4 cost of excavation brick work in 1:5, 12 m thick cement plaster 1:2 with rendering complete in all respect

300mm x 300 mm	6240	mtr.	3112.90	19424496	2890	mtr.	3112.90	8996281
450mm x 450 mm	2245	mtr.	3737.00	8389565	110	mtr.	3737.00	411070
600mm x 600 mm	1175	mtr.	4484.00	5268700	330	mtr.	4484.00	1479720
750mm x 750 mm	340	mtr.	6784.00	2306560	207	mtr.	6784.00	1404288
900mm x 900 mm	190	mtr.	9206.85	1749302	130	mtr.	9206.85	1196891

Provision for construction of Road Gully chamber including cost of covered and complete in all respect

Single Road Gully

Size 610m x 450m x 80 m	120	each	2000	240000	50	M	2000.00	100000
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Double Road Gully

Size 144m x 450m x 80 m	50	each	4200	210000	20	M	4200.00	84000
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3 Provision for construction of site	LS			60000	LS			250000
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4 Provision for lighting and watching	LS			200000	LS			100000
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5 Provision for dewatering by well point system due to sub soil water	LS			500000	LS			200000
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6 Provision for Cutting of Roads and making good to its original condition	LS			100000				50000
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7 Provision for connection with HUDA Draw	LS			500000				
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8 Provision for Carriage of material	LS			500000				50000
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9) C.O to Final Abstract of Cost				4664863				14322250
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Add 1 % Contingency and P. E Charge				139946				429667
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Sub Total				48064808				14754917
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Add 49% Dept. Price escalation unforeseen dept charge				23551756				7228439
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Grand Total				71616564				21980356
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Sav				71617				21980
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9) Prov. for Temporary disposal arrangement till more services are provided (L.S)

Revised cost Rs. 918.50 + 225.41 lac =

Rs. 1143.91 lac

By Consultants Pvt. Ltd.

8

For VATIKA LIMITED

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Cost Estimation of Sub Work No. 5
(Horticulture and Road Side Plantation)

Sub Head No. 1		Qty.	Unit	Rate in Rs	Amount in Rs	Qty.	Unit	Rate in Rs	Amount in Rs
		152.30 Acres				Additional Area 22.07 Acres			
Sr No.	Description								
	DEVELOPMENT OF GREEN AREA (8.61 Acres)								
1	a) Trenching the ordinary soil up to depth of 60 cm i.e. removal and stacking of serviceable material & disposing by spreading and leveling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water excluding cost of imported earth and manure. Area of Road	152.30	Acres	100000	15230400	22.07	Acres	100000	2207000
2	b) Supply and stacking sludge at site including royalty and carriage Green Area								
3	c) Rough dressing of turfed area Grassing with "DOOB GRASS" i.e. watering & maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit moving in rows 7.5 cm part in either direction including provision for hedges and barbed wire around park								
4	d) Maintenance of lawns or turfing of slopes for a period of 1 year								
5	Road Side Plantation and plantation along the roads and above after distance of each 12 m Detail of Cost								
6	Trees/ Shrubs = 60 Rs								
7	Excavation = 30 Rs								
8	Manure = 60 Rs								
9	Tree Guard = 600 Rs								
10	Total Cost of 1 Tree = 750	1300	No	750	975000	188	No	750.00	141000
11	Total				16205400				2348000
	Add 1 % Contingency and P. E Charge				163674.54				236146.54
	Sub Total				16691562				2418440
	Add 49% Dept. Price escalation unforeseen dept charge				8178565				1125036
	Grand Total				24870427				3603476

Revised cost Rs 376.53 lacs + 71.55 lacs
= Rs 448.08 lacs

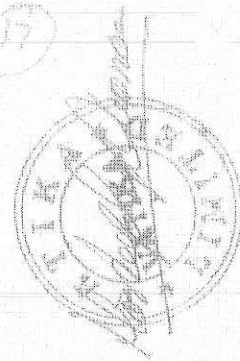


For VATIKA LIMITED

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ROAD STATEMENT FOR VATIKA MBALA

Sr No.	Upper End Node	Lower End Node	Road Length	Road Width	12 M Wide Road	15M Wide Road	24 M Wide Road
1	C46	C42	110	12	110	0	0
2	C42'	C42	25	15	0	25	0
3	C42'	C40	50	15	0	50	0
4	C45	C40	142	12	142	0	0
5	C40	C39	50	15	0	50	0
6	C44	C39	141	12	141	0	0
7	C39	C37	50	15	0	50	0
8	C38	C37	123	12	123	0	0
9	C37	C35	50	15	0	50	0
10	C36	C35	103	12	103	0	0
11	C46	C45	27	12	27	0	0
12	C45	C44	50	12	50	0	0
13	C43	C41	181	15	0	181	0
14	C41	C35	33	15	0	33	0
15	C35	C21	65	12	65	0	0
16	C29	C27	42	12	42	0	0
17	C28	C27	27	12	27	0	0
18	C27	C26	39	12	39	0	0
19	C30	C26	64	12	64	0	0
20	C26	C25	39	12	39	0	0
21	C31	C25	86	12	86	0	0
22	C25	C34	39	12	39	0	0
23	C32	C33	127	12	127	0	0
24	C33	C34	19	12	19	0	0
25	C34	C23	39	12	39	0	0
26	C24	C23	37	12	37	0	0
27	C23'	C23'	139	12	139	0	0
28	C23'	C21	139	24	0	0	139



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ROAD STATEMENT FOR VATIKA MBALA							
Sr No.	Upper End Node	Lower End Node	Road Length	Road Width	12 M Wide Road	15M Wide Road	24 M Wide Road
29	C21	C20	18	24	0	0	0
30	C20	C13	22	24	0	0	0
31	D21	D16	86	15	0	86	0
32	D15	D16	113	12	113	0	0
33	D16	D17	68	15	0	68	0
34	D18	D17	115	12	115	0	0
35	D17	D20	68	15	0	68	0
36	D19	D20	116	12	116	0	0
37	D20	D21	68	15	0	68	0
38	D22	D21	117	12	117	0	0
39	D21	D24	54	15	0	54	0
40	D23	D24	118	12	118	0	0
41	D24	D25	81	15	0	81	0
42	D26	D25	119	15	0	119	0
43	D25	C16	76	15	0	76	0
44	C15	C13	128	12	128	0	0
45	C14	C13	27	15	0	27	0
46	C13	C7	68	15	0	68	0
47	C1	C2	115	12	115	0	0
48	C2	C3	62	12	62	0	0
49	C4	C3	107	12	107	0	0
50	C3	C5	54	12	54	0	0
51	C6	C5	114	12	114	0	0



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ROAD STATEMENT FOR VATIKA MBALA							
Str No.	Upper End Node	Lower End Node	Road Length	Road Width	12 M Wide Road	15M Wide Road	24 M Wide Road
100	E9	E8	62	12	62	0	0
101	E10	E8	31	15	0	31	0
102	E8	E5	54	15	0	54	0
103	E7	E5	72	12	72	0	0
104	E6	E4	54	15	0	54	0
105	E14	E12	137	12	137	0	0
106	E12	E11	54	12	54	0	0
107	E13	E11	137	12	137	0	0
108	E11	E4	55	12	55	0	0
109	E5	E4	87	12	87	0	0
110	E4	E2	54	15	0	54	0
111	E3	E2	91	12	91	0	0
112	C49	C48	252	24	0	0	252
113	C48	C47	75	24	0	0	75
114	C47	E2	178	24	0	0	178
115	E2	E1	4	24	0	0	4
116	E1	E15	63	24	0	0	63
117	E16	E15	103	15	0	103	0
118	E15	E17	71	24	0	0	71
119	E18	E17	111	15	0	111	0
120	E17	E19	71	24	0	0	71
121	E20	E19	122	15	0	122	0
122	E19	D8	75	24	0	0	75

21

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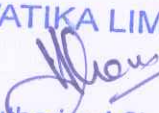
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ROAD STATEMENT FOR VATIKA MBALA							
Sr No.	Upper End Node	Lower End Node	Road Length	Road Width	12.M Wide Road	15M Wide Road	24.M Wide Road
					0	0	0
123	D12	D11	96	12	96	0	0
124	D11	D10	50.00	15	0	50	0
125	D13	D10	97	12	97	0	0
126	D10	D9	50	15	0	50	0
127	D14	D9	97	12	97	0	0
128	D9	D4	65	15	0	65	0
129	D3	D4	99	24	0	0	99
130	D4	D6	67	24	0	0	67
131	D6	D8	254	24	0	0	254
132	D8	E21	75	24	0	0	0
133	E58	E57	68	12	68	0	0
134	E58	E57	34	12	34	0	0
135	E57	E56	49	12	49	0	0
136	E60	E56	53	12	53	0	0
137	E56	E52	53	12	53	0	0
138	E55	E52	84	12	84	0	0
139	E54	E53	86	12	86	0	0
140	E53	E52	54	12	54	0	0
141	E52	E49	49	12	49	0	0
142	E50	E49	98	12	98	0	0
143	E51	E49	63	12	63	0	0
144	E49	E48	44	15	0	44	0
145	E47	E48	92	12	92	0	0
146	E48	E44	49	15	0	49	0
147	E46	E44	81	12	81	0	0



 VATIKA LIMITED

For VATIKA LIMITED

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ROAD STATEMENT FOR VATIKA MBALA

Sr No.	Upper End Node	Lower End Node	Road Length	Road Width	12 M Wide Road	15M Wide Road	24 M Wide Road
148	E44	E43	16	15	0	16	0
149	E45	E43	81	12	81	0	0
150	E43	E41	49	15	0	49	0
151	E42	E41	76	12	76	0	0
152	E41	E40	49	15	0	49	0
153	E39	E40	68	12	68	0	0
154	E40	E21	65	15	0	65	0
155	E21	E22	62	24	0	0	62
156	E22	E23	118	24	0	0	118
157	E23	E27	74	12	74	0	0
158	E27	E27	91	12	91	0	0
159	E27	E28	0	0	0	0	0
160	E27	E28	68	12	68	0	0
161	E28	E29	68	12	68	0	0
162	E29	E29	74	12	74	0	0
163	A12	A11	79	12	79	0	0
164	A9	A11	90	12	90	0	0
165	A9	A13	114	24	0	0	114
166	A11	A14	50	12	50	0	0
167	A13	A14	38	12	38	0	0
168	A14	A15	52	12	52	0	0
169	A15	A19	52	12	52	0	0
170	A18	A19	52	12	52	0	0
171	A19	A21	73	12	73	0	0
172	A21	E25	79	12	79	0	0

23

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ROAD STATEMENT FOR VATIKA MBALA						
Sr No.	Upper End Node	Lower End Node	Road Length	Road Width	12 M Wide Road	15M Wide Road
					0	0
173	A3	A1	125	12	125	0
174	A	A1	117	12	117	0
175	A2	A1	30	12	30	0
176	A1	A6	68	12	68	0
177	A7	A6	111	12	111	0
178	A6	A5	51	12	51	0
179	A4	A5	66	12	66	0
180	A5	A8	170	12	170	0
181	A8	E25	256	12	256	0
182	E29	E30	68	12	68	0
183	E35	E30	65	12	65	0
184	E30	E31	68	12	68	0
185	E34	E31	57	12	57	0
186	E31	E32	57	12	57	0
187	E33	E32	49	12	49	0
Total			14078		9153 9046	2664 2392
			11846		8823	2761 2651
			14050		448	

For Ky Consult. Ltd.

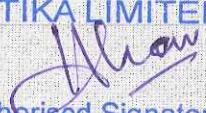
Director



For VATIKA LIMITED
 Authorised Signatory

DESIGN STATEMENT OF W/S

For VATIKA LIMITED


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VATIKA AMBALA WATER SUPPLY STATEMENT

Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand	Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
				L	self	Previous	Total	20 HRS LPM	m	m
1	2	3	4	5	6	7	8	9	10	11
				4305416						
1	UGT-C42	40	400	28041	28	4281	4309	8977.97	0.0054	0.217
2	C42-C46	120	100	43115	43	0	43	89.82	0.0009	0.110
3	C42-C40	50	400	2286	2	4236	4238	8829.72	0.0053	0.263
4	C40-C45	142	100	59042	59	0	59	123.00	0.0016	0.234
5	C40-C39	50	400	2286	2	4175	4177	8701.96	0.0051	0.256
6	C39-C44	140	100	54605	55	0	55	113.76	0.0014	0.199
7	C39-C37	50	400	5286	5	4115	4120	8583.44	0.0050	0.250
8	C37-C38	129	100	49910	50	0	50	103.98	0.0012	0.156
9	C37-C35	50	400	2286	2	4063	4065	8468.44	0.0049	0.244
				0						
10	C35-C36	105	100	41660	42	0	42	86.83	0.0009	0.091
11	C35-C41	34	100	2804	3	34	37	76.05	0.0007	0.023
12	C41-C43	187	100	33699	34	0	34	70.21	0.0006	0.109
				0						
13	C35-C20	50	400	14561	15	3970	3984	8300.80	0.0047	0.235
				0						
14	C20-C21	21	150	9343	9	185	195	405.34	0.0021	0.044
15	C21-C22	150	150	6857	7	178	185	365.87	0.0019	0.285
				0						
16	C22-C23	41	100	3970	4	4	8	16.45	0.0000	0.002
17	C23-C24	40	100	3924	4	0	4	8.18	0.0000	0.000
				0						
18	C22-C25	23	150	1051	1	169	170	355.14	0.0016	0.037
				0						
19	C25-C34	18	150	823	1	169	110	228.81	0.0007	0.013
20	C34-C31	92	100	47320	48	0	48	99.00	0.0011	0.101
21	C34-C33	39	100	1783	2	60	61	128.10	0.0018	0.069
22	C33-C32	114	100	59704	60	0	60	124.38	0.0017	0.192
				0						
23	C25-C26	21	100	960	1	59	60	124.14	0.0017	0.035

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 25

VATIKA AMBALA WATER SUPPLY STATEMENT

Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand	Total	20 HRS	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
				LPM	self	Previous	LPM	m	m	m	m
1	2	3	4	5	6	7	8	10	11	12	13
24	C26-C30	70	100	32542	33	0	33	0.0005	0.038	1.99	28.01
25	C26-C27	39	100	1783	2	24	26	0.0004	0.014	1.97	28.03
26	C27-C29	45	100	20221	20	0	20	0.0002	0.010	1.98	28.02
27	C27-C28	27	100	4080	4	0	4	0.0000	0.000	1.98	28.02
28	C20-C18	105	300	4800	5	3770	3775	0.0172	1810	3.36	26.64
29	C18-C19	21	100	25515	26	0	26	0.0003	0.007	3.37	26.63
30	C18-C17	200	300	9143	9	1114	1123	0.0018	0.365	3.73	26.27
31	C17-C16	97	250	14914	15	1099	1114	0.0044	0.424	4.15	25.85
32	C16-D25	69	150	3154	3	229	232	0.0029	0.199	4.35	25.65
33	D25-D26	104	100	29905	30	0	30	0.0005	0.049	4.20	25.80
34	D23-D24	83	150	12178	12	187	199	0.0022	0.180	4.53	25.47
35	D24-D23	99	100	32676	33	0	33	0.0006	0.054	4.59	25.41
36	D24-D21	67	150	11446	11	143	154	0.0014	0.091	4.62	25.38
37	D21-D22	99	100	4526	5	0	5	0.0000	0.001	4.63	25.37
38	D21-D20	68	150	15684	16	123	138	0.0011	0.075	4.70	25.30
39	D20-D19	80	100	34616	35	0	35	0.0006	0.049	4.75	25.25
40	D20-D17	68	100	11492	11	77	88	0.0034	0.234	4.94	25.06
41	D17-D18	99	100	25484	25	0	25	0.0003	0.034	4.97	25.03
42	D17-D16	68	100	13588	14	37	51	0.0013	0.085	5.05	24.95
43	D16-D15	97	100	25393	25	0	25	0.0003	0.033	5.09	24.91
44	D16-D2	80	100	12041	12	0	12	0.0001	0.007	5.06	24.94
45	C16-C12	78	250	94504	95	773	867	0.0027	0.214	5.94	26.06
46	C12-C11	22	200	1506	2	379	380	0.0018	0.039	3.98	30.00
47	C11-C10	34	200	3554	4	375	379	0.0018	0.060	4.04	26.02
48	C10-C9	20	200	5106	5	370	375	0.0017	0.035	4.03	25.96
49	C9-C13	54	150	52468	52	54	107	0.0007	0.037	4.12	25.89
50	C13-C15	122	100	51649	52	0	52	0.0013	0.157	4.27	25.73
51	C13-C14	53	100	2423	2	0	2	0.0000	0.000	4.12	25.88
52	C9-C7	17	200	36407	36	227	264	0.0009	0.015	4.29	25.71

For VATIKA LIMITED

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VATIKA AMBALA WATER SUPPLY STATEMENT

Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand	Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
				L	self	Previous	Total	20 HRS LPM	m	m
1	2	3	4	5	6	7	8	9	10	11
53	C7-C8	105	100	4800	5	0	5	10.00	0.0000	0.002
54	C7-C5	58	150	5997	6	217	223	463.59	0.0027	0.155
55	C5-C6	101	100	38151	38	0	38	79.48	0.0007	0.074
56	C5-C3	53	150	8673	9	170	178	371.62	0.0018	0.094
57	C3-C4	101	100	33959	34	0	34	70.75	0.0006	0.060
58	C3-C2	60	150	3243	3	133	136	282.80	0.0011	0.064
59	C2-C1	112	150	132501	133	0	133	276.04	0.0010	0.114
60	C12-C47	82	200	3748	4	589	392	817.28	0.0019	0.154
61	C47-C48	19	100	12560	13	0	13	26.17	0.0001	0.002
62	C47-E	176	200	16045	16	360	376	783.31	0.0017	0.305
63	E-E1	22	200	1006	1	259	260	542.09	0.0009	0.019
64	E1-E2	15	200	686	1	259	259	539.99	0.0009	0.013
65	E2-E3	84	100	33182	33	0	33	69.13	0.0006	0.048
66	E2-E4	54	150	2468	2	223	225	469.44	0.0027	0.147
67	E4-E5	76	100	26529	27	0	27	55.27	0.0004	0.028
68	E4-E6	54	100	10852	11	64	75	155.56	0.0025	0.137
69	E6-E7	66	100	23976	24	0	24	49.95	0.0003	0.020
70	E6-E8	54	100	10852	11	29	40	83.00	0.0008	0.043
71	E8-E9	58	100	21514	22	0	22	44.82	0.0003	0.015
72	E8-E10	26	100	7476	7	0	7	15.58	0.0000	0.001
73	E4-E11	56	150	8848	9	113	122	253.46	0.0009	0.049
74	E11-E13	132	100	52143	52	0	52	108.63	0.0013	0.173
75	E11-E12	54	100	5660	7	54	61	126.40	0.0017	0.093
76	E12-E14	127	100	54011	54	0	54	112.52	0.0014	0.177
77	E-E15	44	150	2011	2	98	100	207.79	0.0006	0.027
78	E15-E16	113	100	30316	30	0	30	63.16	0.0005	0.054
79	E15-E17	71	100	3246	3	64	67	140.44	0.0021	0.149

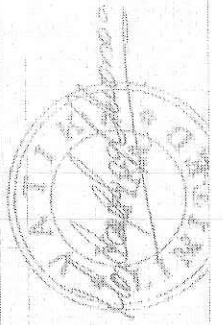


For VATIKA LIMITED

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VATIKA AMBALA WATER SUPPLY STATEMENT

Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand	Total	20 HRS	Head Loss per M	Total Head Loss	Head Progressive	Terminal Head
				L	self	Previous	LPM	m	m	m	m
1	2	3	4	5	6	7	9	10	11	12	13
80	E17-E18	121	100	28386	29	0	59.55	0.0004	0.052	4.63	25.37
81	E17-E19	71	100	3246	3	32	74.12	0.0006	0.046	4.63	25.37
82	E19-E20	131	100	29043	29	0	60.51	0.0004	0.058	4.63	25.32
83	E19-D8	72	100	3291	3	0	6.86	0.0000	0.001	4.63	25.32
84	C17-D	325	300	110966	111	2510	5460.78	0.0086	2.851	6.53	23.32
85	D-D1	36	100	1646	2	0	3.43	0.0000	0.000	6.53	23.42
86	D-D2	70	300	3200	3	2505	5226.17	0.0081	0.566	7.15	22.85
87	D2-D3	93	300	12635	13	2493	5219.50	0.0081	0.750	7.90	22.10
88	D3-D27	72	250	3291	3	862	1802.36	0.0027	0.197	8.10	21.90
89	D27-D28	81	100	14182	14	55	144.56	0.0022	0.180	8.26	21.72
90	D28-D34	72	100	24250	24	0	50.52	0.0003	0.023	8.30	21.70
91	D28-D29	44	100	8299	8	23	64.49	0.0005	0.022	8.32	21.65
92	D28-D31	38	100	10121	10	0	21.08	0.0001	0.002	8.32	21.68
93	D29-D30	45	100	12536	13	0	26.12	0.0001	0.004	8.30	21.70
94	D27-D46	106	250	15325	15	777	1650.94	0.0023	0.247	8.34	21.66
95	D46-D35	83	200	3794	4	374	786.69	0.0017	0.145	8.49	21.51
96	D35-D33	31	100	7705	8	0	16.05	0.0000	0.001	8.49	21.51
97	D35-D36	35	200	1600	2	365	762.73	0.0017	0.058	8.55	21.45
98	D36-D32	58	100	27802	28	0	57.92	0.0004	0.024	8.57	21.43
99	D36-D37	45	200	2057	2	335	701.48	0.0014	0.064	8.61	21.39
100	D37-D38	92	100	48219	48	0	100.46	0.0011	0.104	8.71	21.29
101	D37-D39	45	200	2057	2	284	596.74	0.0010	0.047	8.66	21.34
102	D39-D40	125	100	66494	66	0	138.53	0.0021	0.256	8.91	21.09
103	D39-D41	48	150	2194	2	216	453.92	0.0026	0.123	9.04	20.96
104	D41-D44	148	100	84313	84	0	175.65	0.0032	0.471	9.51	20.49
105	D41-D42	45	150	2057	2	129	273.70	0.0010	0.045	9.55	20.43
106	D42-D45	236	150	127856	128	0	266.37	0.0010	0.225	9.78	20.22
107	D42-D43	32	100	1463	1	0	3.05	0.0000	0.000	9.78	20.22
108	D46-D47	49	250	2240	2	397	832.32	0.0007	0.032	8.37	21.63



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VATIKA AMBALA WATER SUPPLY STATEMENT

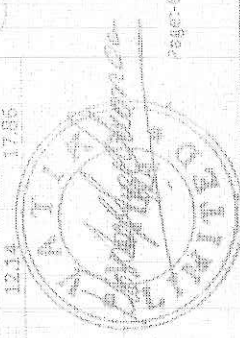
Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	self	Previous	Total	20 HRS LPM	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
				L					m	m	m	m
1	2	3	4	5	6	7	8	9	10	11	12	13
109	D47-D48	48	150	7194	7	230	237	493.66	0.0030	0.144	8.52	21.48
110	D48-D49	27	150	1234	1	229	230	478.68	0.0028	0.076	8.45	21.55
111	D49-D50	129	100	79951	80	0	80	166.57	0.0029	0.372	8.82	21.18
112	D49-D56	38	150	1737	2	147	149	309.54	0.0013	0.048	8.87	21.13
113	D56-D51	105	100	57895	58	0	58	120.62	0.0016	0.167	9.04	20.96
114	D56-D55	41	150	1874	2	87	89	185.31	0.0005	0.020	9.06	20.94
115	D55-D52	78	100	44086	44	0	44	91.85	0.0010	0.075	9.13	20.87
116	D55-D54	48	100	3591	4	39	43	89.55	0.0009	0.044	9.10	20.90
117	D54-D53	47	100	39395	39	0	39	82.07	0.0008	0.037	9.14	20.86
118	D47-D57	153	150	6994	7	153	160	333.99	0.0015	0.222	8.60	21.40
119	D57-B2	20	150	914	1	87	88	183.57	0.0005	0.010	8.61	21.39
120	B2-B21	13	100	15964	16	35	51	105.86	0.0012	0.016	8.62	21.38
121	B21-B4	27	100	1234	1	34	35	72.60	0.0006	0.017	8.64	21.36
122	B21-B6	42	100	1920	2	32	34	70.03	0.0006	0.024	8.65	21.35
123	B6-B5	11	100	503	1	0	1	1.05	0.0000	0.000	8.65	21.38
124	B6-B8	40	100	1829	2	29	31	64.98	0.0005	0.020	8.67	21.33
125	B8-B7	31	100	29362	29	0	29	61.17	0.0005	0.014	8.68	21.32
126	B2-B1	32	100	9846	10	27	36	75.81	0.0007	0.021	8.63	21.37
127	B1-B3	40	100	21390	21	0	21	44.56	0.0003	0.010	8.64	21.36
128	B1-B	21	100	5152	5	0	5	10.73	0.0000	0.000	8.64	21.36
129	D57-B12	208	100	9509	10	56	65	135.85	0.0020	0.411	9.04	20.96
130	B12-B11	51	100	36348	36	19	56	116.04	0.0015	0.075	9.11	20.89
131	B11-B9	24	100	18665	19	0	19	38.89	0.0002	0.005	9.12	20.88
132	B11-B10	15	100	686	1	0	1	1.43	0.0000	0.000	9.11	20.89
133	D3-D4	106	250	21133	21	1606	1628	3390.82	0.0088	0.935	8.83	21.17
134	D4-D9	60	150	11126	11	116	127	265.61	0.0010	0.057	8.89	21.11



For VATIKA LIMITED
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VATIKA AMBALA WATER SUPPLY STATEMENT

Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand			Total Water Demand	Head Loss per M	Total Head Loss	Head Progressive	Terminal Head
					self	Previous	Total					
1	2	3	4	5	6	7	8	20 HRS LPM	m	m	m	m
135	D9-D14	80	100	32999	33	0	33	6875	0.0006	0.045	894	2106
136	D9-D10	50	150	14861	15	69	83	173.68	0.0004	0.022	891	2103
137	D10-D13	79	100	32954	33	0	33	58.55	0.0006	0.044	896	2104
138	D10-D11	49	100	17315	17	18	36	74.07	0.0006	0.032	894	2106
139	D11-D12	78	100	18237	18	0	18	37.99	0.0002	0.015	896	2104
140	D4-D5	61	250	2788	3	1476	1479	3081.19	0.0074	0.451	929	2072
141	D5-D6	22	150	1006	1	77	78	162.49	0.0004	0.008	929	2071
142	D6-D7	217	150	76988	77	0	77	160.39	0.0004	0.081	937	2063
143	D5-D8	251	250	11474	11	1387	1398	2912.89	0.0067	1.671	1036	1904
144	D8-E21	80	250	20424	20	1366	1387	2888.99	0.0066	0.525	1148	1853
145	E21-E40	70	250	9488	9	420	429	894.55	0.0007	0.052	1153	1847
146	E40-E39	74	100	32725	33	0	33	68.18	0.0006	0.041	1157	1843
147	E40-E41	50	200	8573	9	379	387	806.61	0.0018	0.092	1162	1838
148	E41-E42	59	100	36231	36	0	36	75.48	0.0007	0.039	1166	1834
149	E41-E43	59	200	8985	9	333	342	713.27	0.0015	0.086	1171	1829
150	E43-E45	88	100	22290	22	0	22	46.44	0.0003	0.024	1173	1827
151	E43-E44	10	200	4649	5	306	311	648.11	0.0012	0.012	1164	1836
152	E44-E46	88	100	22886	23	0	23	47.68	0.0003	0.025	1166	1834
153	E44-E48	45	200	8345	8	275	284	590.75	0.0010	0.046	1171	1829
154	E48-E47	89	100	43890	44	0	44	91.44	0.0010	0.085	1179	1821
155	E48-E49	46	150	8390	8	223	231	481.93	0.0029	0.132	1192	1838
156	E49-E51	48	100	12674	13	0	13	26.40	0.0001	0.005	1193	1807
157	E49-E50	90	100	50223	50	0	50	104.63	0.0012	0.110	1204	1786
158	E49-E52	52	150	2377	2	159	160	333.41	0.0014	0.075	1200	1801
159	E52-E53	51	100	17011	18	26	44	92.23	0.0010	0.049	1205	1785
160	E53-E54	85	100	26461	26	0	26	55.13	0.0004	0.032	1208	1792
161	E52-E55	83	100	28945	29	0	29	60.30	0.0004	0.036	1212	1788
162	E52-E56	56	150	13039	13	71	84	175.93	0.0004	0.025	1211	1789
163	E56-E60	45	100	37687	38	0	38	78.51	0.0007	0.032	1214	1786



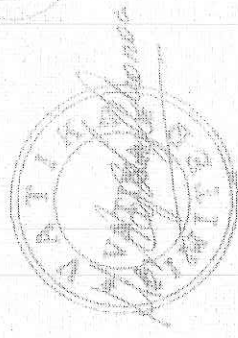
VATIKA AMBALA WATER SUPPLY STATEMENT

Sr No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand		Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Total Head
					self	Previous	Total	20 HRS LPM	m	m	m
1	2	3	4	5	6	7	8	9	10	11	12
164	E56-E57	59	100	16081	16	18	34	70.25	0.0006	0.034	12.18
165	E57-E59	44	100	12395	12	0	12	25.82	0.0001	0.004	12.19
166	E57-E58	23	100	5243	5	0	5	10.92	0.0000	0.000	12.18
167	E21-E22	64	250	126230	126	811	937	1951.88	0.0032	0.203	11.68
168	E22-E23	152	250	19324	20	791	811	1686.90	0.0024	0.369	12.05
169	E23-E27	60	150	3657	4	138	142	295.94	0.0012	0.093	12.15
170	E27-E38	96	100	27443	27	0	27	57.17	0.0004	0.038	12.16
171	E27-E28	68	150	3108	3	108	111	231.15	0.0007	0.050	12.23
172	E28-E37	86	100	24981	25	0	25	52.04	0.0003	0.029	12.26
173	E28-E29	68	150	3108	3	80	83	172.63	0.0004	0.029	12.21
174	E29-E36	80	100	20424	20	0	20	42.55	0.0002	0.018	12.23
175	E29-E30	68	100	3108	3	56	59	123.61	0.0017	0.113	12.34
176	E30-E35	71	100	20013	20	0	20	41.69	0.0002	0.016	12.23
177	E30-E31	68	100	3108	3	33	36	75.44	0.0007	0.045	12.27
178	E31-E34	62	100	15409	15	0	15	32.10	0.0001	0.008	12.28
179	E31-E32	68	100	4358	4	13	18	36.86	0.0002	0.012	12.29
180	E32-E33	70	100	13333	13	0	13	27.78	0.0001	0.007	12.09
181	E23-E24	24	250	1097	1	648	649	1352.29	0.0016	0.039	12.09
182	E24-A20	57	200	2606	3	344	346	721.20	0.0015	0.095	12.18
183	A20-A18	77	100	18191	18	11	30	61.83	0.0005	0.035	12.21
184	A18-A17	22	100	11485	11	0	11	23.93	0.0001	0.002	12.21
185	A20-E25	92	200	4206	4	310	314	653.95	0.0012	0.114	12.20
186	E25-E26	74	150	15383	153	0	153	319.55	0.0013	0.099	12.30
187	E25-A21	73	150	28488	28	128	156	325.64	0.0014	0.101	12.41
188	A21-A19	68	150	32451	32	95	128	266.29	0.0010	0.065	12.27
189	A19-A18	52	100	6569	7	0	7	13.69	0.0000	0.001	12.21
190	A19-A15	32	150	11942	12	77	89	185.00	0.0005	0.016	12.29
191	A15-A14	52	150	25432	25	51	77	160.12	0.0004	0.019	12.22
											17.78

For VATIKA LIMITED
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VATIKA AMBALA WATER SUPPLY STATEMENT

Sr. No.	Name of Road	Length	Pipe Size	Total Water Demand	Net Water Demand		Total Water Demand	Head Loss per M	Total Head Loss	Head Loss Progressive	Terminal Head
					self	Previous	Total				
				l			20 HRS lpm	m	m	m	m
1	2	3	4	5	6	7	8	10	11	12	13
192	A14-A13	33	100	14084	14	0	14	0.0001	0.004	1231	1759
193	A14-A11	60	100	2743	3	35	37	0.0007	0.042	1225	1775
194	A11-A12	83	100	33136	33	0	33	0.0006	0.047	1229	1771
195	A11-A9	32	100	1463	1	0	1	0.0000	0.000	1229	1771
196	E24-A8	136	200	69717	70	232	302	0.0012	0.157	1225	1775
197	A8-A9	114	100	6211	6	4	10	0.0001	0.007	1226	1774
198	A9-A10	90	100	4114	4	0	4	0.0000	0.001	1225	1773
199	A8-A5	170	200	35926	36	186	222	0.0007	0.111	1236	1764
200	A5-A4	62	100	19601	20	0	20	0.0002	0.013	1237	1763
201	A5-A6	50	150	19053	19	147	166	0.0016	0.078	1245	1753
202	A6-A7	116	100	40453	40	0	40	0.0008	0.095	1247	1753
203	A6-A1	69	100	3154	3	104	107	0.0049	0.341	1281	1719
204	A1-A3	141	100	53555	54	0	54	0.0014	0.194	1257	1743
205	A1-A	112	100	49133	49	0	49	0.0012	0.131	1270	1730
206	A1-A2	22	100	1006	1	0	1	0.0000	0.000	1270	1730
	Total	14965	100	4309423	4309						1719



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Appurtenances of Water Supply

Sr No.	Name of Road	Length	Length of Pipe Line						Sluice Valves					
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d
1	2	3	m	m	m	m	m	m	No.	No.	No.	No.	No.	No.
1	UCT-C42	40						40						1
2	C42-C46	120	120						1					
3	C42-C40	50						50						
4	C40-C45	142	142						1					
5	C40-C39	50						50						
6	C39-C44	140	140						1					
7	C39-C37	50						50						
8	C37-C38	129	129						1					
9	C37-C35	50						50						
10	C35-C36	105	105						1					
11	C35-C41	34	34						1					
12	C41-C43	187	187						1					
13	C35-C20	50						50						
14	C20-C21	21		21						1				
15	C21-C22	150		150						1				
16	C22-C23	41	41						1					
17	C23-C24	40	40						1					
18	C22-C25	23		23						1				
19	C25-C34	18		18						1				
20	C34-C31	92	92						1					
21	C34-C33	39	39						1					
22	C33-C32	114	114						1					
23	C25-C26	21	21						1					

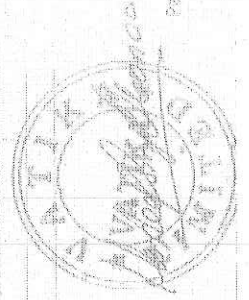


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Appurtenances of Water Supply

Sr. No.	Name of Road	Length	Length of Pipe Line						Sluice Valves				
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d
			m	m	m	m	m	m	No.	No.	No.	No.	No.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
24	C26-C30	70	70						1				15
25	C26-C27	39	39						1				
26	C27-C29	45	45						1				
27	C27-C28	27	27						1				
28	C20-C18	105					105						1
29	C18-C19	215	215						1				1
30	C18-C17	200					200						
31	C17-C16	97				97							
32	C16-D25	69		69					1				
33	D25-D26	104	104						1				
34	D25-D24	83		83					1				
35	D24-D23	99	99						1				
36	D24-D21	67		67					1				
37	D21-D22	99	99						1				
38	D21-D20	66		66					1				
39	D20-D19	80	80						1				
40	D20-D17	68	68						1				
41	D17-D18	99	99						1				
42	D17-D16	68	68						1				
43	D16-D15	97	97						1				
44	D16-D2	80	80						1				
45	C16-C12	78				78							
46	C12-C11	22			22								
47	C11-C10	34			34								
48	C10-C9	20			20								
49	C9-C13	54		54									
50	C13-C15	122	122						1				
51	C13-C14	53	53						1				
52	C9-C7	17			17								



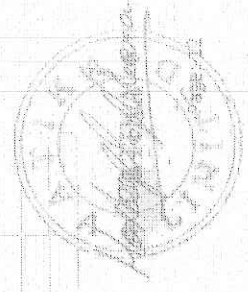
Appurtenances of Water Supply

Sr. No.	Name of Road	Length	Length of Pipe Line						Sluice Valves					
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
53	C7-C8	105	105	58					1	1				
54	C7-C5	58		58					1					
55	C5-C6	101	101							1				
56	C5-C3	53		53					1					
57	C3-C4	101	101							1				
58	C3-C2	60		60										
59	C2-C1	112		112						1				
60	C12-C47	82			82						1			
61	C47-C48	19	19						1					
62	C47-E	176			176						1			
63	E-E1	22			22						1			
64	E1-E2	15			15						1			
65	E2-E3	84	84						1					
66	E2-E4	54		54										
67	E4-E5	76	76						1					
68	E4-E6	54	54						1					
69	E6-E7	66	66						1					
70	E6-E8	54	54						1					
71	E8-E9	58	58						1					
72	E8-E10	26	26						1					
73	E4-E11	56		56										
74	E11-E13	132	132						1					
75	E11-E12	54	54						1					
76	E12-E14	127	127						1					
77	E-E15	44		44										
78	E15-E16	113	113						1					
79	E15-E17	71	71						1					



Appurtenances of Water Supply

Sr No.	Name of Road	Length	Length of Pipe Line							Sluice Valves				
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d
1	2	3	4	5	6	7	8	9	No.	No.	No.	No.	No.	No.
80	E17-E18	121	121						10	11	12	13	14	15
81	E17-E19	71	71						1					
82	E19-E20	131	131						1					
83	E19-D8	72	72						1					
84	C17-D	325					325		1				1	
85	D-D1	36	36										1	
86	D-D2	70					70						1	
87	D2-D3	93					93						1	
88	D3-D27	72				72								
89	D27-D28	81	81						1					
90	D28-D34	72	72						1					
91	D28-D29	44	44						1					
92	D29-D31	38	38						1					
93	D29-D30	45	45						1					
94	D27-D46	106				106								
95	D46-D35	83			83				1	1				
96	D35-D33	31	31							1				
97	D35-D36	35			35				1					
98	D36-D32	58	58											
99	D36-D37	45			45									
100	D37-D38	92	92						1	1				
101	D37-D39	45			45									
102	D39-D40	125	125						1					
103	D39-D41	48		48						1				
104	D41-D44	148	148						1					
105	D41-D42	45		45										
106	D42-D45	236		236										
107	D42-D43	32	32						1					
108	D46-D47	49				49								



For VATIKA LIMITED
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Appurtenances of Water Supply

Sr No.	Name of Road	Length	Length of Pipe Line								Sluice Valves				
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
109	D47-D48	48		48											
110	D48-D49	27		27						1					
111	D49-D50	129	129						1						
112	D49-D56	38		38						1					
113	D56-D51	105	105						1						
114	D56-D55	41		41						1					
115	D55-D52	78	78						1						
116	D55-D54	48	48						1						
117	D54-D53	47	47						1						
118	D47-D57	153		153						1					
119	D57-B2	20		20						1					
120	B2-B21	13	13						1						
121	B21-B4	27	27						1						
122	B21-B6	42	42						1						
123	B6-B5	11	11						1						
124	B6-B8	40	40						1						
125	B8-B7	31	31						1						
126	B2-B1	32	32						1						
127	B1-B3	40	40						1						
128	B1-B	21	21						1						
129	D57-B12	208	208						1						
130	B12-B11	51	51						1						
131	B11-B9	24	24						1						
132	B11-B10	15	15						1						
133	D3-D4	106				106							1		
134	D4-D9	60		60										1	

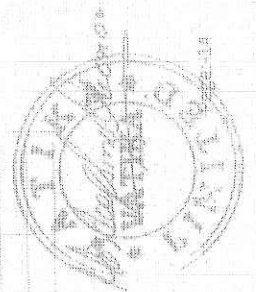


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Appurtenances of Water Supply

Sr No.	Name of Road	Length	Length of Pipe Line							Sluice Valves				
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d
			m	m	m	m	m	m	No.	No.	No.	No.	No.	No.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
135	D9-D14	80	80	50					1	1				
136	D9-D10	50							1					
137	D10-D13	79	79						1					
138	D10-D11	49	49						1					
139	D11-D12	78	78											
140	D4-D5	61				61								
141	D5-D6	22		22					1					
142	D6-D7	217		217					1					
143	D5-D8	251				251								
144	D8-E21	80				80								
145	E21-E30	70				70			1					
146	E40-E39	74	74								1			
147	E40-E41	50			50				1					
148	E41-E42	59	59								1			
149	E41-E43	59							1					
150	E43-E45	88	88						1					
151	E43-E44	10			10				1					
152	E44-E46	88	88								1			
153	E44-E48	45							1					
154	E48-E47	89	89											
155	E48-E49	46		46							1			
156	E49-E51	40	48						1					
157	E49-E50	90	90						1					
158	E49-E52	52		52										
159	E52-E53	51	51						1					
160	E53-E54	85	85						1					
161	E52-E55	83	83											
162	E52-E56	56		56										
163	E56-E60	45	45						1					



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Appurtenances of Water Supply

Sr No	Name of Road	Length	Length of Pipe Line								Sluice Valves				
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	
			m	m	m	m	m	m	m	No.	No.	No.	No.	No.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
164	E56-E57	59	59						1						
165	E57-E59	44	44						1						
166	E57-E58	23	23						1						
167	E21-E22	64				64						1			
168	E22-E23	152				152						1			
169	E23-E27	80		80					1						
170	E27-E38	96	96						1						
171	E27-E28	68		68					1						
172	E28-E37	88	88						1						
173	E28-E29	68		68					1						
174	E29-E36	80	80						1						
175	E29-E30	68	68						1						
176	E30-E35	71	71						1						
177	E30-E31	68	68						1						
178	E31-E34	62	62						1						
179	E31-E32	68	68						1						
180	E32-E33	70	70						1						
181	E23-E24	24				24						1			
182	E24-A20	57			57						1				
183	A20-A18	77	77						1						
184	A18-A17	22	22						1						
185	A20-E25	92			92						1				
186	E25-E26	74		74											
187	E25-A21	73		73											
188	A21-A19	68		68											
189	A19-A18	52	52						1						
190	A19-A15	32		32											
191	A15-A14	52		52											



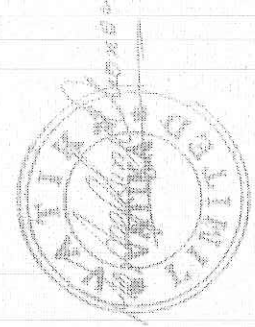
Page-15

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Appurtenances of Water Supply

Sr. No.	Name of Road	Length	Length of Pipe Line						Sluice Valves					
			100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d	100 mm i/d	150 mm i/d	200 mm i/d	250 mm i/d	300 mm i/d	400 mm i/d
1	2	3	m	m	m	m	m	m	No.	No.	No.	No.	No.	No.
192	A14-A13	33	4	5	6	7	8	9	10	11	12	13	14	15
193	A14-A11	60	33						1					
194	A11-A12	83	60						4					
195	A11-A9	32	83						4					
196	E24-A8	136			136						1			
197	A8-A9	114	114						1					
198	A9-A10	90	90						1					
199	A8-A5	170			170						1			
200	A5-A4	62	62						1					
201	A5-A6	50	50							1				
202	A6-A7	116	116						1					
203	A6-A1	69	69						1					
204	A1-A3	141	141						4					
205	A1-A	112	112						1					
206	A1-A2	22	22						1					
Total		14965	8743	2714	1215	1210	593	290	420	41	20	13	5	6

50



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Detail of Area Residential Vatika India Next, Gurgaon

Daily Water Requirement 174,373 Acres

Daily Water Requirement 152,304 Acres

Sr. No.	Description	Residential (Plotted)	Size of Plot	Area of each Unit / Plot	Plots	Total Area	Total Persons	Water Allowance	Water Requirement	Total Area	Total Persons	Water Requirement	Additional Demand of New Area
Category of Plots	Width	Depth	m	Sq.m.	Nos.	Sq.m.	Acres	No.	LPCD	Ltrs./Day	No.	Ltrs./Day	Ltrs./Day
EWIS Category													
1.01	TYPE A	5.00	10.00	50.00	292	14600	3.61	2828	155.25	407997	1982	304601	103397
					292	14600	3.61	2828		407997	1982	304601	103397
General Category													
1.02	TYPE B	7.5	16.7	125.02	134	19253.08	4.76	2079	155.25	322765	3672	570078	
1.03	TYPE C	8.2	18.4	150.88	113	17049.44	4.21	1526	155.25	276834	2538	394025	
1.04	TYPE D	10.5	19.1	200.02	223	44604.46	11.02	3011	155.25	467380	3767	584749	
1.05	TYPE D1	9.6	22.0	211.20	61	12883.20	3.18	824	155.25	127848	1431	222163	
1.06	TYPE E	12.0	20.8	249.84	239	59711.76	14.76	3227	155.25	508914	351	54493	
1.07	TYPE F	15.0	28.0	420.00	341	143230.00	35.39	4604	155.25	714693	6	0	
1.08	TYPE F1	0.0	0.0	0.00	1	0.00	0.00	14	155.25	2096	0	0	
1.09	TYPE F2	0.0	0.0	0.00	1	0.00	0.00	14	155.25	2096	0	0	
1.10	TYPE F3	0.0	0.0	0.00	1	0.00	0.00	14	155.25	2096	0	0	
1.11	TYPE F4	0.0	0.0	0.00	1	0.00	0.00	14	155.25	2096	0	0	
1.12	TYPE G	15.80	25.90	409.22	5	2046.10	0.51	68	155.25	10479	0	0	
1.13	TYPE H	15.84	26.00	411.84	19	7824.96	1.93	257	155.25	39822	0	0	
	Sub Total				1159	306592.00	75.76	15647	155.25	2429119	11759	1825507	603612
									155.25		0		
2.00	Total				1451	321193.80	79.37	18275		2837116	13724	2130185	707009
	Commercial Area												
2.01	Commercial Area					14052	3.67		25000	91750		122750	-31000
									5000	15000		15000	0
2.02	Nursing Home	1010.75-842.59		2875.80	3	2876	0.71						
		+1022.46											
3.00	Community Area												
3.01	High School	1	5.00	1	2023.4	5.00			150000	150000		150000	
3.02	Primary School	2	2.09	2	8458	2.09			50000	100000		100000	
3.03	Nursery School	4	0.98	4	3966	0.98			10000	40000		40000	
3.04	Crèche	1	0.23	1	931	0.23			10000	10000		10000	
3.05	Dispensary	1	1.27	1	5139	1.27			50000	63500		63500	
3.06	Club	1	2.00	1	8094	2.00			25000	50000		50000	

KV Consultants Pvt Ltd

Daily Waste Water Demand

For VATIKA LIMITED

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3.02	Neighbours	1	0.22	1	1890	0.22	5500	0.22	5500	
5.08	Tree Stand	1	0.51	1	2064	0.51	5000	0.51	5000	
	Sub Total				49776	12.30	424000	12.30	424000	0
4.00	Undetermined use				3660	1.40	25000	5.3	132500	22500
5.09	Green Area									
5.01	Organised Green - Area under Green Belt	1	18.07	1	20760.2	5.13	25000	1282.50		
5.02	Incidental Green -	1	6.6	1	15216.1	3.76	25000	94000		0
	Sub Total				35976	8.890	222250	8.89	222250	
6.00	Area under Master Roads				70172	17.340	10000	173400	18.49	11500
7.00	Area under Roads				205134	50.690	10000	506900	36.74	139500
	Total Area / Total Demand				705644	174.270	4305416	152.316	13721	3598908
	Fire Demand Plotted Residential					427.49				370

For Ky Consultants Pvt Ltd.

Director



For VATIKA LIMITED

Authorised Signatory

Daily Waste Water Demand

Ky Consultants Pvt Ltd