Vatika

Final Abstract of Cost of Vatika India Next, in Sector 82, 82A, 83, 84 & 85 being developed by Vatika Group

Sr. No.	Description		Total Cost in
1	Sub Work No. 1 (Roads)	4351.88	422358398
2	Sub Work No. 2 (Water Supply)	1412.70	140796370
3	Sewerage Sub Work No. 3 (Waste Water Collection System & Recycling of Treated Waste Water)	1880.66	115951185
4	Sub Work No. 4 (Storm Water)	19,76.50	172939084
5	Sub Work No. 5 (Horticulture & Road Side Plantation)	120.30	9164902
6	Sub Work No. 6 (Lightings & Fittings)	820.98	64937180
	Sub Total	100,62.88	926147118
	Maintenance for 10 years		
	Roads @ ~~2%~~ 2.0% capital cost / yr 20%	870.36	84471680
	Water Supply @ 2.5% capital cost / yr 25%	353.18	35199093
	Waste Water Collection System @ ~~2.5%~~ 2.0% capital cost / yr 20%	276.12	28987796
	Storm Water @ ~~2.5%~~ 1.5% capital cost / yr 15%	296.48	43234771
	Horticulture & Road Side Plantation @ 2% capital cost / yr 20%	24.06	1832980
	Light & Fittings @ ~~2%~~ 2.5% capital cost / yr 25%	205.22	12987136
	Resurfacing of Road after 5 yrs. & 10yrs.) Total 10 year	3220.46	157356000
	SubTotal	5245.42	364069756
	Total Cost	15308.12	1290216874
	Cost / Acre including Maintenance for net area planned =321.748 Acres		4010023

~~Add 3% contingencies & 1% charge 15902167 = 38906506I~~

~~Add 4.5% Departmental charge Rs. 132892338~~

Executive Engineer
HUDA Division No. III
Gurgaon

Rs. 132892338.

~~1988723~~

6511445

Cost Per Acre

$$\frac{15368.32}{321.748} = 47.60 \text{ Lac / Acre}$$

TOTAL

~~1960095836~~

Superintending Engineer
HUDA Circle No. 1,
Gurgaon

21/1/13

862

[illegible] Consultants Pvt. Ltd.

95

Director General
Town and Country Planning
Haryana, Chandigarh

For VATIKA LIMITED

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Executive Engineer (HQ)

Roads.

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S No	Cost Estimation of Sub Work No. 1 (Roads)				
	SUB HEAD NO. 1				
	Description	**Qty.**	**Unit**	**Rate in ₹**	**Amount in ₹**
		Roads			
1	**Providing for leveling & earth filling :** includes providing good earth transportation from source to site, laying in layer, rolling & watering & compaction to the desired specification complete as per MORT & H specifications for road & bridge works Clause - 305 for all leads and lifts as per site conditions	393.358	Acres	100000	39335781 393.36 Lac
2	Contruction of Road By :- i) Providing **GSB 200** mm thick as per MORT & H specifications conforming to Clause 401 grading -11 400.1				
	ii) Providing Laying, spreading and compacting graded stone aggregates as per Table 400-11 to **Wet Mix Macadam** specifications - 406 MORT&H, IV Revision, including premixing the mixed materials with water to OMC in Mechnical mixer (Plug Mill) carriage of mixed material by tipper to site, laying in uniform layers using paver in subbase / base course, on a well prepared sub base and compacting with power and vibratory roller to achieve & desired density, including cost of material complete **150 mm thick**	262260	sq mtr	800	209808000
	Providing, laying & compaction of **B.M. (Bitumenous Macadum) 50 mm thick** with grading 2 as per table No. 500.10 and minimum 4.5% bitumen of 60/70 grade as per MORT&H specifications for road & bridge works 2001 (Revision IV) clause. 507.1 to 507.8 for all leads & lifts etc. complete in all respects to the satisfaction of the Engineer in charge				
	20 mm thick mis seal surfacing.				
3	Providing & Fixing **kerbs & channels** of C.C. M-20 grade as per standard size including back filling etc. complete in all respects.	41784	mtr	333	13914053
4	Provision for Guide Maps & **Plot Indicators, Road Marking Strips & Post Delinators .**	L S		500000	500000
5	Provision for Carriage of materials.	L S		100000	100000
10.159 HSR	Provision for 80 mm thickPavement of **parking in shopping center/commercial center for pavement/parking** taking 50 % of the area that is 21.75 ac or 15831 Sq M / 2 = 44009 (21.75 X 4047 = 88048	44009	sq mtr	450	19804150
	Total				**283461984** 28356198
	Total Cost				**283461984**
	C .O to Final Abstract of Cost				

Add 3% Contigency 2835.62 Lac

85.06

Add 4.9% OHC (Administrato escalation unforeseen Adm Charges 2920.68 Lac

143.13

4351.81 Lac

Say 4351.80 Lacs

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Abstract of Sub Work No. 2 (Water Supply)		
No. of Sub Head	**Name of Sub Head**	**Amount in ₹**
SUB HEAD NO. 1	Source Generation 81.20	8112230
Sub Head No. 2	Water Works & Boosting Station 270.20	31526000
Sub Head No. 3	Distribution System & Rising Main 568.60	54855978
	Total 920.58 Add 3% Contigency Charges 27.26	94494208
	Total Cost 948.12	94494208
	Add 49% OHC (Admn. [illegible] Circulation Charges) 464.57 **C.O to Final Abstract of Cost** 1412.69	
	1412.74	

Cost Estimation of Water Supply Scheme					
Cost Estimation of Sub Work No. 2			**Water Supply**		
SUB HEAD NO. 1			**Source Generation**		
Sr. No.	**Description**	**Qty.**	**Unit**	**Rate in ₹**	**Amount in ₹**
1	Boring of tubewells having minimum of 450 mm dia with depth of 70 mtr including providing & fixing 200 mm inside dia V - wire Screen of stainless steel of aproved make, blind pipe of MS confirming is IS: 3589 of 4.8 mm thick threaded and sockted as per approved design including cost of all fitting and clamps placed on the girder and coated with antic crosive paint of approved quality, including supply and installation of 12.5 BHP pumping set, GI coloumn pipes, panal board and all other electrical apprutenances to run the tubewell, making provision for the earthing, cost of panal baord etc complete in all respect upto delievery pipe lines including the cost of Sluice valves, scour valves and non return valves etc. + local Chamber complete (7 nos [illegible] x 1.00)	7	Nos.	800000	5600000
2	Providing & Installation of Generator Set of Standard make 20 KVA capacity to run the tubewell fixed with the conapy and plateform including cost of change over switch etc complete in all repect.	7	Nos.	338890	2372230
3	Provision for releasing electric connection charges to the DHBVN for the above tube wells	L.S			140000
	Total				8112230

[illegible] 81.20 Lacs.

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Cost Estimation of Sub Work No. 2				Water Supply			
SUB WORK NO. 2				Water Supply-Head works			
SUB HEAD NO.2				(Water Works, Boosting Station)			
Sr. No.	Description			Qty.	Unit	Rate in ₹	Amount in ₹
	Construction of **Boosting chamber** of suitable sizewith cost of **Pumping Machinery** (Four No Horizontal centrifugal pumps, 35 LPS at 45 M Head, and **Generating set** of 100KVA capacity etc. complete in all respect As detailed below :	WW1 (Zone I)	WW2 (Zone II)				
	(I) Construction of **Boosting Chamber**	1	1	2	No	~~1000000~~ 1500,000	~~2000000~~ 30,00,000/-
	Construction of RCC OHSR of 500 KL capacity with 29 m staging height of standard design as per Public Health/HUDA Departments including cost for providing and fixing of clamps etc, DI Pipes Double flanged class K9 in inlet, outlet, overflow or scour pipes, Providing & laying DI Standard specials of Class K12 including jointing to pipes and fittings, complete as required for all sizes and degrees and CI Sluice Valves with wheel & cap complete with bolts, nuts, rubber instertions etc. of class PN-1 as per	218 (2×500)	382	~~600~~ 1000	KL	15000	~~9000000~~ 15,00,000/-
	(II) Construction of **RCC Under Ground Clear Water Storage Tank**, 470KL capacity in three compartments including inlet, outlet & overflow	~~2657~~ 2489+1322	~~2657~~	~~5314~~ 3820	KL	~~3750~~ 3500	~~19926000~~ 133,70,000/-
2	Provision for **carriage** of materials and other unforeseen items.			2	L.S.	~~100000~~ 250,000	~~100000~~ 500,000/-
3	Construction of **Boundary wall** and gate around the water works			2	L.S.	~~200000~~ 200000	~~200000~~ 400000/-
4	**Development** of campus of water works including construction of approach roads, footpath, hedges and development of lawns and plantation etc. complete at water works site			LS	2 No	100000	~~100000~~ 400000
5	Provision for **Staff Quarter**			LS	2 No	200000	~~200000~~ 400,000/-
	Add: Provision of intermediate booster with chambers as per ...			(3)	3 No	2500000	7500,000/-
	Total						~~31526000~~ 270,70,000/-
	C .O to Abstract of Cost of sub work no 2						

2.70.70 lacs

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	SUB HEAD NO.3	Distribution System & Rising Main			
Sr.No. / HSR No.	Description	Qty.	Unit	Rate in ₹	Amount in ₹
1	Providing, stringing, cutting and jointing **D.I. pipe** (Class K-7) Zinc coating outside the pipe and cement lining inside including cost of **excavation**				
	(For Distribution)				
	100 mm id	22033	Mtr	1034	22777936
	150 mm id	4093	Mtr	1490	6099020
	200 mm id	1501	Mtr	1989	2985011
	250 mm id	1853	Mtr	2709	5019787
	300 mm id	665	Mtr	3390	2254231
	350 mm id	517	Mtr	4932	2549734
	400 mm id	710	Mtr	5429	2806832
	For Rising Main				
	150 mm id	1967	Mtr	1490	2931046
	200 mm id	352	Mtr	1989	700016
	250 mm id	146	Mtr	2709	395515
	300 mm id	169	Mtr	3390	572880
2/ NS Recommendation of Committee	Providing and fixing cast iron double falnged **sluice valve/ Butter Fly Valve** PN 1.6 marked with IS: 14846 including cost of all joint of material, carriage, loading, unloading, stacking, handling etc complete in all respect ot the satisfaction to the Engineer - in charge.				
	100 mm id	301	Nos.	3698	1113098
	150 mm id	59	Nos.	5709	336831
	200 mm id	21	Nos.	9945	208845
	250 mm id	30	Nos.	15589	467670
	300 mm id	6	Nos.	18810	112860
	350 mm id	5	Nos.	30395	151975
	400 mm id	10	Nos.	41120	411200
3/NS	Providing and fixing **Fire Hydrants** complete with masonry chambers	8	Nos.	~~5000~~ 10,000/	80000 ~~40000~~
4	Construction of Brick masonry **Haudi for Sluice Valves** & Fire hydrent including surface boxes complete as per Public Health Standard	440	Nos.	~~5650.00~~ 8000/-	3520,000/- ~~2486000~~
5	Provision for indicating **Arrow plates** for Sluice valve & Fire hydrent	440	Nos.	~~500~~ 1000	440000/- ~~220000~~
6/ 28.13(A)	Providing and fixing C.I. double **Air valves** marked with IS : 14845 including carriage, loading, unloading, stacking, handling, re-handling etc., drilling, tapping, screwing in valves connections complete in all respects to the satisfaction of Engineer-in-charge (as per HSR item 28.13 with C.P. nill) 100mm i/d.	5	Nos.	~~3098~~ 5000	25000/- ~~15490~~
7	Provision for **Carrige of material**	1	LS	2000 ~~100000~~	2 100000
8	Provision for **Cutting of Roads** and making good to its orignal condition	1	LS	100000 200000	100000 250,000
	Total				54855978

Provision for making loops at ...ments. 580,000

Say 568.60 Lacs.

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Abstract of Sub Work No. 3 (Waste Water Collection System &Recycling of Treated Water)

No. of Sub Head	Name of Sub Head		Amount in `
Sub Head No. 1	Waste Water collection/Sewerage	412.18	38703903
Sub Head No. 2	Recycling of Treated Water	487.48	39115684
Total		899.58	77819587
Total Cost	Add 3% Contingency	26.98	77819587
C.O to Final Abstract of Cost		926.56	
Cost Estimation of Waste Water / Sewerage	Add 49% ...	454.01	Say 1380.60 lacs

	SUB WORK NO. 3		1380.58		
Sr. No.	**Description**	**Qty.**	**Unit**	**Rate in ₹**	**Amount in ₹**
	Providing salt glazed stone ware pipes grade 'A' in standard length of 600 mm each pipe marked with IS: 651 and their lowering, cutting, jointing and testing , including cost of excavation, bed concrete , Man holes jointing materials as well as carriage, loading, unloading stacking, handling, rehandling etc, complete in all respects to the satisfaction of Engineer in Charge.				
	200 mm id S.W Pipe				
	i) Average Depth up to 2 M				
	Above water table	20668	M	1134	23437512
	250 mm id S.W Pipe				
	ii) Average Depth 2 M to 4 M	2235	M	1437	3211695
	300 mm id S.W Pipe				
	i) Average Depth 2 M to 4 M	2533	M	1832	4640456
	350 mm id S.W Pipe				
	i) Average Depth 2 M to 4 M	1336	M	2214	2957904
	400 mm id S.W Pipe				
	i) Average Depth 2 M to 4 M	787	M	2498	1965926
	450 mm id S.W Pipe				
	i) Average Depth 2 M to 5 M	82	M	3231	264942
	500 mm id S.W Pipe				
	i) Average Depth 2 M to 5 M	408	M	3661	1493688
	700 mm id S.W Pipe R.C.C No-3				
	i) Average Depth 2 M to 5 M	140	M	5227	731780
	Total	28189			38703903
	C .O to Abstract of Cost of sub work no 3				

Provision for re shorting of service (28.18 km) line to ... along 24 mtr / Master Roads ... 50000/- 387.10 lacs

23.90 lacs

419.00 lacs

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	Recycling of Treated Water	(2.2) Distribution System			
	SUB HEAD NO 2(Recycling of Treated Water)	Qty.	Unit	Rate in ₹	Amount in ₹
Sr.No.	Description				
1	Providing, stringing, cutting and jointing AC Pipe of 25kg / cm^2 pressure including cost of Excavation complete in all respect				
	110 mm/od	20557	Mtr	300	6167100
	160 mm/od	4115	Mtr	728	2995720
	210 mm/od	2934	Mtr	1214	3561876
	250 mm I/d	1936	Mtr	1658	3209888
	300 mmi/d	336	Mtr	2416	811776
3 /	Providing and fixing Butter Fly valves /Ball Valve in C.I. body with integrally moulded liner of nitrile or EPDM, as per is :13095 in PN 1.0.	2.49898 / 1cr			
	100 mm i/d	285	Nos.	3698	1053930
	150 mm i/d	63	Nos.	5709	359667
	210 mm/od	36	Mtr	9945	358020
	250 mm I/d	29	Mtr	15589	452081
	300 mmi/d	3	Mtr	18810	56430
4/ 28.13(A)	Providing and fixing C.I. double Air Valves , Butter Fly valves marked with IS : 14845 including carriage, loading, unloading,	2	Nos.	~~3098~~ 5000	~~6196~~ 10,000/
5	Provision for indicating Arrow Plates for sluice valve and Air Valves	418	Nos.	1000	418000
6	Construction of Brick masonry Haudi for and Air valves including surface boxes complete Public Health Standard	418	Nos.	~~5000~~ 8000	~~2090000~~ 3344000/
7	Provision for providing & fixing lawn hydrants/ Sprinklers with sprinkler system at a distance of 30 m centre to centre on the periphery (green land) complete in all respects (with STP)	50	Nos.	~~1000~~ 1500	~~50000~~ 75000/
8	Construction of Boosting Station suitable for the pumping machinery and D.G. set.	1	Nos.	~~150000.00~~ 500000	~~150000~~ 500,000/
9	Construction of RCC Under Ground Water Storage Tank including inlet, outlet & overflow arrangement. with STP	750	Kl	~~2500.00~~ 1500/-	~~1875000~~ 11,25000/
10	Providing & Installing Treatent Units ,5 modules of 300 cum/day Ok. STPs phII	~~1500~~ 1550 STP	Nos. PhII	~~10000.00~~ 10000/	15000000 / 15500000/
11	Providing and installing of pumping set with electric driven slip ring motor complete in all respects. of adequate capacity	5	each	100000.00	500000
	Total	(L.S)			~~39115684~~
	Provision for re-laying of trunk (150m x 300mm)	1500x250	mt	Rs	37,50,000/
	C.O to Abstract of Cost of sub work no 3				

487,48,487/.

= 487.48 lac

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Cost Estimation of Sub Work No. 4 (Storm Water Drainage) SWD					
Sub Head No. 1		(Storm Water Drainage)			
Sr. No.	Description	Qty.	Unit	Rate in ₹	Amount in ₹
1	Construction of **RCC Drain,** 1:3 cement plaster inside with 1 mm thick cement rendering, RCC slab in RMC M20 or SFRC slab including cost of excavation & complete in all respect				
	Covered Drain				
	Covered Drain 300 mm x 300 mm	3640	mtr.	2000	7280293
2	Providing, stringing, cutting and jointing RCC NP-3 pipe and specials in to Trenches including **cost of excavation , cost of manholes, Road Gullies, ventilating chambers etc., complete in all respect.**				
	400 mm dia avg.depth 0-2 M	21966	M	3022.00	66381252
	500 mm dia avg.depth 0-2 M	2692	M	3723.00	10022316
	600 mm dia avg.depth 0-2 M	1769	M	4512.00	7981728
	700 mm dia avg.depth 0-2.5 M	1046	M	5227.00	5467442
	800 mmi/d avg.depth 0-3 M	240	M	6413	1539120
	900 mmi/d avg.depth 0-3.5 M	254	M	7785	1977390
	4)1000 mmi/d avg.depth 0-4 M	207	M	8914	1845198
	1100 mmi/d avg.depth 0-4 M	439	M	10590	4649010
	1200 mmi/d avg.depth 0-4 M	~~125~~ 28.138	M	12342	1542750
4	Provision for connection of proposed drains with existing HUDA Drains	1	Each	~~30000~~ 50,000	~~30000~~ 50,000
5	Provision for Shoring & Timbering , Lighting & Watching	L.S		150000	150000
7	Provision for Carriage of Material	L.S		~~100000~~ 200000	~~100000~~ 200000
9	Provision for cutting of road & making good to its original conditions	L.S		~~100000~~ 20000	100000 20,000
5	Provision for 50 nos **Recharge Wells**	50	Nos.	~~140000~~ 150,000	~~7000000~~ 75,00000
	Total Cost				~~116066499~~ 116786499
	C .O to Final Abstract of Cost				

6. Provission for Re-sectioning of SWD lines to Co-relate with HUDA sewer along 24 m / master SWD. 1000 mtr @ 12,000/- (L.S) 120,00,000

Add 3% Contingency

Add 4% DHCs (Adm. & collection charges) say

Say (1976.50)

1287,86,499
1287.86 L
+ 38.64 L
1,326.50
= 1,326.50 Lakh
19.76 Lakh

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kn Consultants Pvt. Ltd.

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Sr. No.	Description	Qty.	Unit	Rate in ₹	Amount in ₹
	Sub Work No. 5	**Horticulture and Road Side Plantation**			
	Sub Head No. 1	**Qty.**	**Unit**	**Rate in ₹**	**Amount in ₹**
Sr. No.	**Description**				
1	DEVELOPMENT OF GREEN AREA (8.61 Acres) 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**			100,000	2175000/-
	b) Supply and stacking sludge at site including royalty and carriage Green Area	21.75	Acres	~~90000~~	~~1957500~~
	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				
	d) Maintenance of lawns or turfing of slopes for a period of 1 year				
2	Road Side Plantation and plantation along the roads and above after distance of each 12 m Detail of Cost Dwarf Greenpapers / Small Shrubs [illegible] with one weekly.	8.60	Acr	3500	28 83000/-
i	Trees\ Shurbs = 60 Rs				
ii	Excavation = 30 Rs				
	Manure = 60 Rs				
	Tree Guard =600 Rs				
	Total Cost of 1 Tree = 750	**4090**	N o	750	3067500
	Total				78,35550 ~~5025026~~
	Total cost				78.36 **5025026** 2.35
	C .O to Final Abstract of Cost				

Add 3% Contigency charges.	80.71 lacs
Add 49% OHC (Admn. unforseen escalation charges	39.55 lacs
	120.26 lacs

Say 120.30

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Cost Estimation of Sub Work No. 6 (Street Lighting & Fittings)					
Sub Work No. 6		Lighting & Fittings			
Sr. No.	Description	Qty.	Unit	Rate in ₹	Amount in ₹
1	Cost of Lighting & Fittings (including Cable...	1981	Nos.	~~10000~~ 12000	~~19810000~~ 23772000/
2	Cost of Poles (Purchase including etc. erecting Complete.	1981	Nos.	~~12000~~ 15000	~~23772000~~ 29715000/-
	Total cost				~~43582000~~ 53487000/-
	Total				43582000
	C.O to Final Abstract of Cost				

Say 534.87 lac

Add 3% Contigency charges 16.05

550.92 lac

Add 49% OHC. (Admin escalation inspection charges 269.95 lac

820.87

Say 820.90 lac.

For VATIKA LIMITED

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DESIGN STATEMENT OF ROADS

For VATIKA LIMITED

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Abstract of Road Length

Sr. No.	Description	Width of Road				Total Length
		12 M	15 M	18 M	24 M	
		m	m	m	m	m
1	Sector 82	10116	2526	483	2310	15435
2	Sector 82A	2382	179	0	763	3324
3	Sector 83	5936	1505	637	1987	10065
4	Sector 84	1636	0	243	204	2083
5	Sector 85	4289.00	296.00	0.00	514.00	5099
6	Total	24359.00	4506	1363	5778	36006

24359 Km 4.506 Km 1.363 Km 5.778 36.006 km

Director

Area master Road - Pavement

12m (24.359 x 6.6) = 16154 Sqm

15m (4.506 x 6.0) 27036 Sqm

18m (1.363 x 6.00): 8178 Sqm

24m - 5.778 2 x 7.00) 80892 Sqm

262.260 Sqm

Rd + 36006
5778
41784

m Sigh (Bharat garhbe.)

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