

# **SERVICE ESTIMATES**

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**For Commercial colony measuring 2.0 Acres in Sector-24, Dharuhera**

**Developed by: Dwarkadhis projects Pvt. Ltd.**

**License No 56 of 2007 dated 23.01.2007**

**Service plan estimate for commercial colony measuring 2.0 acre (license No. 56 of 2007 dated 23.01.2007) in Sec-24 Dharuhera being developed by Dwarkadhis projects Pvt. Ltd.**

**Sub Work No. 1**

**Water supply**

Sub Head No. 1.		Head Works	
1	Boring and installing 8" I/d tube wells with reverse/direct rotary rig complete with pipe and strainer to depth of about 80 m complete.		
	1 Nos. @ Rs. 350000/- each	Rs.	3,50,000
	1 Nos. @ Rs. 200000/- each	Rs.	2,00,000
2	Construction of boundary wall, gates around the tube wells site and water works etc.		
	Water works 1 Nos. @ Rs. 150000/- each	Rs.	1,50,000
	Tube wells 1 Nos. @ Rs. 120000/- each	Rs.	1,20,000
3	Provision of footpath hedges and lawns as required at tube well site		
	Water works site. 1 No. @ Rs.50,000/- each	Rs.	50,000
4	Construction boosting chambers of suitable size along with under ground tank of capacity 150 KL pumping machinery and generating set etc. complete in all respect. Detail of boosting station.		
5	Construction of boosting chamber	Rs.	3,00,000
6	UGT 350 KL capacity including 200 KL for fire fighting in three compartments	Rs.	11,00,000
7	Provision for carriage of material and other unforeseen items.	Rs.	1,00,000
8	Provision for elect. Connection from DHBVN	Rs.	1,00,000

**Total Rs. 24,70,000**  
**Say in Lakhs Rs. 24.70**

C.O. to Abstract of Water Supply cost.

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**Sub Work No. 1**

Sub Head No. 2

**Water supply**

Pumping

Machinery

1	Providing and installing electricity driven or submersible pumping set capable of delivering about 10 KL water per hour against a total head of 40 M complete with motor		
	1 Nos. @ Rs. 250000/- each	Rs.	2,50,000
2	Provision for diesel engine for stand- by arrangements for tube wells.		
	1 Nos. @ Rs. 200000/- each	Rs.	2,00,000
3	Provision for Electro chlorination machine		
	2 Nos. @ Rs. 30,000/- each	Rs.	60,000
4	Provision of making foundations and erection of pumping machinery		
	2 nos. @ Rs. 50,000/-each	Rs.	1,00,000
5	Provision for pipes, valves and specials inside the pump chamber		
	2 Nos. @ Rs. 50000/- each	Rs.	1,00,000
6	Provision for electric services connections including electric fittings for tube wells chamber complete L.S.	Rs.	1,00,000
7	Provision for Gen Set 75 KVA	Rs.	6,50,000
8	Provision for carriage of material and unforeseen item L.S.	Rs.	1,00,000

**Total Rs. 15,60,000**

**Say in Lakhs Rs. 15.60**

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**Sub Work No. 1**

Sub Head No. 3

**Water supply  
Distribution  
system/rising mains**

1	Providing laying, jointing and testing DI/CI pipes including cost of excavation complete (ISI marked).		
	Drinking		
	80 mm i/d 11.00 M @ Rs. 1050.00 Per M	Rs.	11,550
	65 MM i/d 208.00 M @ Rs. 600.00 Per M	Rs.	1,24,800
	50 MM i/d 11.00 M @ Rs. 500. Per M		5,500
	Flushing		
	65 dia 11 RM @ Rs. 350/- Per M.	Rs.	3,850
	50 dia 215 RM @ Rs. 144/- Per M.	Rs.	30,960
	40 dia 8 RM @ Rs. 92/- Per M.	Rs.	736
2	Providing and fixing sluice valves including cost of brick masonry chamber complete in all respect.		
	80 mm i/d 1 Nos. @ Rs. 12500/- each	Rs.	12,500
	50 mm i/d 3 No. @ Rs. 11500/- each	Rs.	34,500
3	Providing and fixing Air valves and scour valves including cost of rick masonry chamber complete.		
	9 Nos. @ Rs. 10000/- each	Rs.	90,000
4	providing and fixing indicating plates for sluice valves air valves.		
	20 Nos. 2 Rs. 1000.00 each	Rs.	20,000
5	Provision for carriage of material L.S.	Rs.	2,00,000
6	Provision for cutting of roads and making good to be its original conditions. L.S.	Rs.	5,00,000
7	to UGT including cost of excavation and refilling.		
	100 mm i/d 100 mtr. @ Rs. 1140 per mtr.	Rs.	1,14,000
	Rising main from HUDA 100 mm dia 100 mtr. @ 1140 M	Rs.	1,14,000
8	Provision for connection with HUDA Line	Rs.	2,00,000

**Total Rs. 14,62,396**  
**Say in Lakhs Rs. 14.63**

C.O. to Abstract of Water Supply cost.

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**Sub Work No. 1**  
Sub Head No. 4

**Water supply**  
Fire Ring Main

1	Providing, laying, jointing & Testing 150 mm dia M.S. Pipe (Fire Ring Main) including cost of excavation welding etc. completed in all respect.		
	150 mm dia MS pipe 271 RM @ Rs. 1800/-	Rs.	4,87,800
2	Providing and fixing fire hydrants complete with masonry chambers.		
	3 Nos. @ Rs. 9500/- each	Rs.	28,500
3	Providing and fixing indicating plates for fire hydrants.		
	3 Nos. @ Rs. 1050/- each	Rs.	3,150

**Total Rs. 5,19,450**

**Say in Lakhs Rs. 5.20**

C.O. to Abstract of Water Supply cost.

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**Sub Work No. 3**

**S.W. Drainage**

1	Providing, lowering, jointing cutting of RCC NP2 pipes and specials into trenches including cost of excavation, cost of manholes, ventilating chamber etc. complete in all respect.		
ii)	300 mm i/d		
	Avg. depth upto 2.0 M		
	239 Mtr @ Rs. 1105 Per Mtr.	Rs.	2,64,095
ii)	200 mm i/d		
	Avg. depth upto 2.0 M		
	102 Mtr @ Rs. 600 Per Mtr.	Rs.	61,200
iii)	100 mm i/d		
	Avg. depth upto 2.0 M		
	48 Mtr @ Rs. 500 Per Mtr.	Rs.	24,000
2	Provision of roads gullies L.S.	Rs.	2,00,000
3	Provision for lighting, watching and temporary diversion	Rs.	1,00,000
4	Provision for cutting the roads and carriage of materials etc. and other unforeseen items. L.S.	Rs.	1,00,000
5	Provision for Rain Water Harvesting well 2 Nos. @ 1,00,000/-	Rs.	2,00,000
6	Provision for connection with HUDA	Rs.	1,00,000

**G. Total Rs. 10,49,295**  
**Say in Lakhs Rs. 10.50**

C.O. to Abstract of Final Cost

**Service plan estimate for commercial colony measuring 2.0 acre (license No. 56 of 2007 dated 23.01.2007) in Sec-24 Dharuhera being developed by Dwarkadhis projects Pvt. Ltd.**

**Estimate for provision of Street Lighting**

**Sub Work No. 5**

**Street Light**

1	Providing street lighting on roads as per standard specifications complete in all respect.		
	Area = 8.375 Acres		
	2 acres @ Rs. 85,000/- per acres	Rs.	1,70,000

**G. Total Rs. 1,70,000**

**Say in Lakhs Rs. 1.70**

C.O. to Abstract of Final Cost

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**Estimate for provision of Horticulture**

**Sub Work No. 6**

**Horticulture**

1	Development of Lawn area		
a)	Trenching the ordinary soil upto depth of 60 cm including removal and packing of serviceable material and disposing at a lead of 50 M and making up the trenched area to proper level by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth.		
b)	Rough dressing of trenched area.		
c)	Grassing with "doob grass" including watering and maintenance of lawns free from weeds and fit for moving in rows 75.0 cm in either direction including for hedges around park and green belts (as per area =0.3 acres 80,000/-)	Rs.	24,000
2	Planting of trees with tree guards on roads at 40' / 12 m intervals at 1200 m long road		
	Trees @ 12M c/c 357/12 = 30 Nos		
	Cost of one tree		
	Excavation Rs. 40.00 each		
	Manure Rs. 70.00 each		
	Tree Plants Rs. 60.00 each		
	Tree Guard Rs. 300.00 each		
	Total Rs. 470.00 each		
	30 trees @ Rs. 470.00 each	Rs.	1,41,000
3	Planting of shrubs 3' / 1 m intervals at both sides of 370 m long road i.e. (370/1)x2= 740 Nos		
	Cost of one shrub/ plant		
	Excavation Rs. 40.00 each		
	Manure Rs. 70.00 each		
	Shrub/ Plants Rs. 30.00 each		
	Total Rs. 140.00 each		
	740 shrubs @ Rs. 140.00 each	Rs.	1,03,600

**G. Total Rs. 2,68,600**  
**Say in Lakhs Rs. 2.69**

C.O. to Abstract of Final Cost



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**Sub Work No. 7**

**Mtc. Charges  
and Resurfacing  
of Road**

1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. Complete including operation and establishment charges as per HUDa norms after completion.		
	2.000 acres @ Rs. 3.80 Lakhs per acres.	Rs.	7,60,000
2	Provision for repair/ replacement of paver blocks after first five years of maintenance i.e. 50% of the blocks originally paved @ Rs. 450/- per Sqm.		
	50% of originally paved @ Rs. 450/- per sqm.	Rs.	4,96,409

**G. Total Rs. 12,56,409**

**Say in Lakhs Rs. 12.57**

C.O. to Abstract of Final Cost

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**Estimate of Paved Road**

**Sub Work No. 4**

**Road Upto PC**

	Width of road	length of road (In Mtr.)	Paved width mtr.	UOM	Area in Sqm.
	A	B	C		D= B x C
	6 mtr.	357	6	SqMtr	2,142
	Add 3% for curves			SqMtr	64
	Total			SqMtr	<b>2,206</b>

Amount in Rs.

1	Providing for levelling, earth filling/cutting as per site conditions LS @ Rs. 70,000/ acres Area 2.000 acres.	Rs.	1,40,000
2	i) Construction of road by provisioning granular sub base 300 mm as per MORT & H specification conforming to clause 401 grading II as per table 400.10	Rs.	6,61,878
	ii) Providing, laying spreading and compacting hand broken, crushed stone agg. to wet mix macadam conforming to physical requirment laid in 400 of MORT& H specification in two layer compacted to 250 mm (125+125) by taking 1.32 time of the thickness of two layers including provisioning of	Rs.	6,61,878
	iii) 80 mm thick Paver Block (2,206 Sqm. @ Rs.450/- per Sqm.)	Rs.	9,92,817
3	Providing cement concrete pavement for parking in precast PCC tiles (1:1:5:3)		
	i) 615 Sqmtr. @ Rs. 350/- per sqm.	Rs.	2,15,250
4	Provision of guide maps. L.S.	Rs.	50,000
5	Provision of road signages/ indicator board	Rs.	75,000
6	Provision of carriage of material and unforeseen item.	Rs.	50,000
<b>G. Total</b>		<b>Rs.</b>	<b>28,46,823</b>

**Say in Lakhs.**

**Rs.**

**28.47**

C.O. to Abstract of Final Cost

Service plan estimate for commercial colony measuring 2.0 acre (license No. 56 of 2007 dated 23.01.2007) in Sec-24 Dharuhera being developed by Dwarkadhis projects Pvt. Ltd.

**WATER SUPPLY (Sub work No 1) ABSTRACT OF COST.**

1	Sub-head No 1	Head Works	Rs.	24.70	Lakhs
2	Sub-head No 2	Pumping Machinery	Rs.	15.60	Lakhs
3	Sub-head No 3	Distribution System	Rs.	14.63	Lakhs
4	Sub-head No 4	Fire Ring Main	Rs.	5.20	Lakhs
		<b>G.Total</b>	Rs.	<b>60.13</b>	Lakhs

C.O. to Abstract of Final Cost

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**FINAL ABSTRACT OF COST.**

1	Sub Work No. 1	Water Supply	Rs.	60.13	Lakhs
2	Sub Work No. 2	Sewerage	Rs.	32.46	Lakhs
3	Sub Work No. 3	Storm Water Drainage	Rs.	10.50	Lakhs
4	Sub Work No. 4	Road and footpath	Rs.	28.47	Lakhs
5	Sub Work No. 5	Street Lighting	Rs.	1.70	Lakhs
6	Sub Work No. 6	Horticulture	Rs.	2.69	Lakhs
7	Sub Work No. 7	Mtc. Charges for repairs to be carried after 5 years	Rs.	12.57	Lakhs
		Total	Rs.	148.52	Lakhs
		Add 10% departmental charges/ price escalation/ unforeseen item/ and P.E./ Admn charges	Rs.	14.85	Lakhs
		<b>G.Total</b>	<b>Rs.</b>	<b>163.37</b>	<b>Lakhs</b>
		<b>Say</b>	<b>Rs.</b>	<b>164.00</b>	<b>Lakhs</b>

**Cost/Gross acre (in lakhs/acre) = 164.00/2.00 = Rs.82 Lakhs/acres.**