

Diversion of 0.0144 ha. forest land for approach road for setting up a new retail outlet on Mamoon Chowk to Madhopur (Defence road) km 10-11 R/side at village Kahanpur district Pathankot. (By. Neeraj Gupta Dy Manager (Retail Sales) Indian Oil Corporation Limited Pathankot).

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Annexure-II

ESTIMATE OF PLANTATION WORKS

Name of Scheme:- Compensatory Afforestation

Wage Rate: 202/-
Plants : 1000 No.

Advance Work and Plantation					
	Name of Work	Unit	Unit Cost (In Rs.)	Qty	Total Amt
	Nursery				
	Cost of raising plants	1	16	1100	17600.00
	Soil Works				
1	Site /Jungle Clearance (25%)	Ha.	3304	0.25	826.00
2	Alignment & Dagbailing	Ha.	525	1	525.00
3	Earth Work-	1M ³			
	(a) Digging of Pits 800x 0.5m x0.5mx0.4m		62	80	4960.00
	(b) Preparation of Ridges 500 x .8x.50 m (base 100 cm, top 60 cm)	1M ³	54	200 m3	10816.00
4	Kana Stubbing 20%	Ha.	16526	0.20	3305.20
1	a) Refilling of Pits	100 No	84	900	756.00
	(b) Digging of slots 200 x 3 x 3 x 2 m	m3	37	3.60	133.20
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No	25	1100	275.00
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km.)	100 No	121	1100	1331.00
4	i) Carriage from site to site	100 No	7	1000	70.00
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	219	1000	2190.00
5	Spot Irrigation (1000 Plants)	100 No	182	1000	1820.00
6	Application of Insecticide (2 times)	100 No	25	2000	500.00
7	Application of Fertilizers (2 times)	100 No	25	2000	500.00
8	Weeding & Hoeing 3 times	100 No	219	3000	6570.00
9	Hand Water (12 times)	100 No	182	12000	21840.00
10	Replanting of Plants 10%	100 No	554	100	554.00
11	Rejungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
12	Covering (25% plants) of plants	100 No	182	250	455.00
13	Uncovering of plants	100 No	20	250	50.00
14	Restubbing of Kana (1 time)		6282	0.20	1256.40
15	Laying out & fixing of Barbed Wire	L/s			4200.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	3676	1Man 7 Month	3676.00
17	Material				
	i) Insecticides/Fertilizers	L/s			4500.00
	ii) POL	L/s			10000.00
	iii) Barbed Wire& fencing	L/s			40000.00
				Sub Total	139440.80
Maintenance I Year					
1	Cost of raising plants for 30% replacement	1 No.	16	300	4800.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	22	22.5m3	495.00
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	11	22.5m3	247.50
4	Loading & Unloading of Plants	1 No.	0.25	300	75.00
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	121	330	399.3
6	Spreading of plants pit to pit	100 No	7	300	21.0

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7	Re-planting to plants	100 No	219	300	657.0
8	Spot Irrigation	100 No.	182	300	546.0
9	Weeding & Hoeing (thrice)	100 No	219	3000	6570.00
10	App. Of Fertilizer (two times)	100 No	25	2000	500.00
11	App. Of Insecticide (two times)	100 No	25	2000	500.00
12	Hand watering 8 Times	100 No	182	8000	14560.00
13	Jungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
14	Stubbing of Kana	Per Ha.	6282	0.20	1256.40
15	Watch & Ward for every 10 Ha. (10 months)	Man year	52520	1/10 Man yr.	5252.00
16	Repair of Barbed wire	L/s			4500.00
17	POL & Machinery	L/s			10000.00
18	Material and supply	L/s			7000.00
				Sub Total	58111.20
Maintenance II Year					
1	Cost of raising plants for 25% replacement	No.	16	250	4000.00
2	Reopening of Pits 250 x 0.50 x 0.50 x 0.30	1 m3	22	18.75 m3	412.50
3	Refilling of pits with earth in other soils 250 x 0.50 x 0.50 x 0.30	1 m3	11	15 m3	116.10
4	Loading & Unloading of Plants	1 No.	0.25	250	62.50
5	Carriage of Plants (200+10% Wastage=220 avg. distance upto 10 km.)	100 No	121	220	266.2
6	Spreading of plants pit to pit	100 No	7	250	17.5
7	Re-planting to plants	100 No	219	250	547.5
8	Spot Irrigation	100 No.	182	250	455.0
9	Weeding & Hoeing (twice)	100 No	219	3000	6570.00
10	Hand Watering 5 Times	100 No	182	5000	9100.00
11	Jungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
12	Stubbing of Kana	Per Ha.	6282	0.20	1256.40
13	Pruning to plants 20%	100 No.	184	200	368.00
14	Watch & Ward for every 10 Ha.	Man year	57994	1/10 Man yr.	5799.00
15	Repair of Barbed wire	L/s			4500.00
16	POL & Machinery	L/s			10000.00
17	Material and supply	L/s			7000.00
				Sub Total	51202.70
Maintenance III Year					
1	Cost of raising plants for 20% replacement	1 No.	16	200	3200.00
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.30	1 m3	22	15 m3	330.00
3	Refilling of pits with earth in other soils 200 x 0.50 x 0.50 x 0.30	1 m3	12	15 m3	180.00
4	Loading & Unloading of Plants	1 No.	0.25	200	50.00
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	121	110	133.10
6	Spreading of plants pit to pit	100 No	7	200	14.00
7	Re-planting to plants	100 No	219	200	438.00
8	Spot Irrigation	100 No.	182	200	364.00
9	Weeding & Hoeing (thrice)	100 No	219	3000	6570.00
10	Hand Watering (3 times)	100 No	182	3000	5460.00
11	Jungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
12	Stubbing of Kana	Per Ha.	6282	0.20	1256.40
13	Pruning to plants 20%	100 No.	184	200	368.00
14	Watch & Ward for every 10 Ha.	Man year	52520	1/10 Man yr.	5252.00
15	Repair of Barbed wire	L/s			4500.00
16	POL & Machinery	L/s			10000.00
17	Material and supply	L/s			7000.00

GURSHARAN SINGH, PPS
DIVISIONAL FOREST OFFICER
PATHANKOT
PLACE, PATHANKOT.

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				Sub Total	45847.50
Maintenance IV Year					
1	Cost of raising plants for 15% replacement	1 No.	16	150	2400.00
2	Reopening of Pits 150 x 0.50 x 0.50 x 0.30	1 m3	22	11.25 m3	247.50
3	Refilling of pits with earth in other soils 150 x 0.50 x 0.50 x 0.30	1 m3	12	11.25 m3	135.00
4	Loading & Unloading of Plants	1 No.	0.25	150	37.50
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	121	110	133.10
6	Spreading of plants pit to pit	100 No	7	150	10.50
7	Re-planting to plants	100 No	219	150	328.50
8	Spot Irrigation	100 No.	182	150	273.00
9	Weeding & Hoeing (thrice)	100 No	219	3000	6570.00
10	Hand Watering (3 times)	100 No	182	3000	5460.00
11	Jungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
12	Stubbing of Kana	Per Ha.	6282	0.20	1256.40
13	Pruning to plants 30%	100 No.	184	300	552.00
14	Watch & Ward for every 10 Ha.	Man year	52520	1/10 Man yr.	5252.00
15	Repair of Barbed wire	L/s			4500.00
16	POL & Machinery	L/s			10000.00
17	Material and supply	L/s			7000.00
				Sub Total	44887.50
Maintenance V Year					
1	Cost of raising plants for 10% replacement	1 No.	16	100	1600.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.30	1 m3	22	7.5 m3	165.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	12	7.5 m3	90.00
4	Loading & Unloading of Plants	1 No.	0.25	100	25.00
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	121	110	133.10
6	Spreading of plants pit to pit	100 No	7	100	7.00
7	Re-planting to plants	100 No	219	100	219.00
8	Spot Irrigation	100 No.	182	100	182.00
9	Weeding & Hoeing (thrice)	100 No	219	3000	6570.00
10	Hand Watering (3 times)	100 No	182	3000	5460.00
11	Jungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
12	Stubbing of Kana	Per Ha.	6282	0.20	1256.40
13	Pruning to plants 30%	100 No	184	300	552.00
14	Watch & Ward for every 10 Ha.	Man year	52520	1/10 Man yr.	5252.00
15	Repair of Barbed wire	L/s			4500.00
16	POL & Machinery	L/s			10000.00
17	Material and supply	L/s			7000.00
				Sub Total	43743.50
Maintenance VI Year					
1	Cost of raising plants for 5% replacement	1 No.	16	50	800.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.30	1 m3	22	3.75 m3	82.50
3	Refilling of pits with earth in other soils 50 x 0.50 x 0.50 x 0.30	1 m3	12	3.75 m3	45.00
4	Loading & Unloading of Plants	1 No.	0.25	50	12.50
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	121	110	133.10

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6	Spreading of plants pit to pit	100 No	7	50	3.50
7	Re-planting to plants	100 No	219	50	109.50
8	Spot Irrigation	100 No.	182	50	91.00
9	Weeding & Hoeing (thrice)	100 No	219	3000	6570.00
10	Hand Watering (3 times)	100 No	182	3000	5460.00
11	Jungle Clearance (2 times)	Per Ha.	1464	0.50	732.00
12	Stubbing of Kana	Per Ha	6282	0.20	1256.40
13	Pruning to plants 30%	100 No.	184	300	552.00
14	Watch & Ward for every 10 Ha	Man year	52520	1/10 Man yr.	5252.00
15	Repair of Barbed wire	L/s			4500.00
16	POL & Machinery	L/s			10000.00
17	Material and supply	L/s			7000.00
				Sub Total	42599.50
Maintenance VII Year					
1	Jungle Clearance two times	Per Ha.	1464	0.50	732.00
2	Kana Stubbing	Per Ha.	6282	0.20	1256.40
3	Watch and Watch every 10 ha.		57994	1/10 Man yr.	5799.00
				Sub Total	7787.40
Maintenance VIII Year					
1	Jungle Clearance two times	Per Ha.	1464	0.50	732.00
2	Kana Stubbing	Per Ha.	6282	0.20	1256.40
3	Watch and Watch every 10 ha.		57994	1/10 Man yr.	5799.00
				Sub Total	7787.40
Maintenance IX Year					
1	Watch and Watch every 10 ha.		57994	1/10 Man yr.	5799.00
				Sub Total	5799.00
Maintenance X Year					
1	Watch and Watch every 10 ha.		57994	1/10 Man yr.	5799.00
				Sub Total	5799.00
				TOTAL	453005.50
	Over Head expenses 5%				22650.28
				G.Total	475655.78

Summary of Costs

a) Cost of Plantation:

(i) Cost of plantation in 1 Hect. Area (1000 Plants)+

Rs 475655.78

(ii) Cost of plantation for 0.0144 ha.X 2500 = 36 Plants

36 Plants = Rs 17124.00

supervision charges 10%

Rs 1712.00

Total Rs 18836.00

Net present value of 0.0144 ha. as fixed by Govt.

b) for open area forest diverted @ Rs 626000/- per ha

Rs 12773

Total 27851.00

Silvicultural operations can be changed as per site requirement after recording proper reasons by Divisional Forest Officer. Changes in operation will be done by remaining within the financial limits of cost model proposed.

ROD

Divisional Forest Officer
GURSHARAN SINGH, PFC
Pathankot Forest Division
Pathankot
PLACE, PATHANKOT
DATE.....