

MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION

ON DEGRADED FOREST LAND (DFL) FOREST BLOCK 5-6 SWD

UNIT: 4.35 Ha.

PERIMETER: 854 M

LABOUR RATE: Rs 259/day

COST ESTIMATE: RS. 1664790

Project: Construction of 33 KV Transmission Line Bhadla to HPCL
Rajasthan Refinery Limited.
Proposal No.: FP/RJ/TRANS/152039/2022
Diversion Area : 1.5206 Ha.
Plants per Hectare : 700

ADVANCE ACTION (0 YEAR)						
S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest management activities.		654/ Ha.	2627	218	2845
2	Survey of area. Lay out of contour trenches, burrow pits and making of segments / plots		525/Ha.	2066	218	2284
3	Fencing of plantation area with 1.5M high R.C. Post and two lines of wire and 1.2M broad welded wire mesh.	854	165.99/rmt	69721	72035	141755
4	Cost of raising 840 seedlings/Ha. in nursery.	3654	7.14	16991	9098	26090
5	Purchase of 5HP Engine	1	50000	0	50000	50000
6	Purchase of PVC/HDPE Pipes of 3 inch dia and 1 inch dia	Lumsum			50000	50000
7	Purchase of tools and plants	Lumsum			10000	10000
8	Purchase of Fertilisers and insecticides	Lumsum			5000	5000
9	Purchase of Plantation Board including painting and fixing.			2000	5000	7000
10	Watch and ward for 4 months			26936		26936
11	Repairs and maintenance of vehicles.	Lumsum			4000	4000
12	Labour amenities			3000	2000	5000
13	Misc. and unforeseen expenses (Labour, instruments, machines etc.)	Lumsum		1400	2500	3900
	TOTAL YEAR 0			124741	210068	334810
						33481
14	Administrative charges 10%					368291
	TOTAL					

Planting Year (Year 1)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Maintenance of 840 Plants/Ha. seeding in nursery	3654	2.51/Plant	7228	1944	9172
3	Raising of 140 seedlings in nursery for casualty replacement in year-2 (20% of 700)	609	7.14/Plant	2832	1516	4348
4	Transportation of 770 plants/Ha. from nursery to planting site	3350	1.99/plant	5930	737	6667
5	Planting of 700 seedlings/Ha. In command area including digging of pits, local transportation, treatment of pit with pesticides and fertilisers, making of thanwala and initial watering.	3045	15.64/Plant	13261	3928	17189
6	Spot watering & application of insecticides in 700 plants. (6th times)	3045	22.67/plant	45523	23507	69030
7	Weeding and hoeing of 700 plants/Ha. (2 times)	3045	9.20/plant	28014	0	28014
8	hoeing of 700 plants/Ha. (2 times)	3045	5.66/plant	17235	0	17235
9	Application of Urea and Fertiliser.	3045	0.59/Plant	1127	670	1797
10	Purchase of PVC Pipes.	Lumsum		0	25000	25000
11	Maintenance of engines	Lumsum			10000	10000
12	Watch and ward for 12 months	Lumsum		80808		80808
13	Construction of cattle guard hut.	Lumsum		10000	20000	30000
14	Labour amenities.	Lumsum		2500	5000	7500
15	Repairs and maintenance of vehicles.	Lumsum			3000	3000
16	Micellaneous and unforeseen expenditure.	Lumsum		1300	2000	3300
	TOTAL YEAR 1			215756	97619	313375
						31338
17	Administrative charges 10%					344713
	TOTAL					

Signature

First Year Maintenance (Year 2)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Maintenance of 140 seedling/ha. in nursery for casualty replacement in 2nd year	609	2.51/Plant	1205	324	1529
3	Casualty replacement 140 plants including redigging of pits, transportation planting with treatment of pesticides and fertiliser, watering	609	11.07/Plant	6742	29978	36720
4	Spot watering & application of insecticides in 700 plants. (6th times)	3045	22.67/plant	45523	23507	69030
5	Application of Urea and Fertiliser. (2 times)	3045	0.59/Plant	2253	1340	3593
6	Weeding and hoeing of 700 plants/Ha. (2 times)	3045	9.20/plant	28014	0	28014
7	hoeing of 700 plants/Ha. (2 times)	3045	5.66/plant	17235	0	17235
8	Repair and maintenance of vehicle	Lumsum			5000	5000
9	Maintenance of engines	Lumsum			5000	5000
10	Watch and ward for 6 months	Lumsum		40404		40404
11	Misc. and unforeseen expenditure	Lumsum		2813	3780	6593
	TOTAL YEAR 2			144188	69246	213434
12	Administrative charges 10%					21343
	TOTAL					234777

Second Year Maintenance (Year 3)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Spot watering & application of insecticides in 700 plants. (5 times)	3045	18.89/plant	37941	19579	57520
3	Application of Urea and Fertiliser. (2 times)	3045	0.59/Plant	2253	1340	3593
4	hoeing of 700 plants/Ha. (2 times)	3045	5.66/plant	17235	0	17235
5	Repair and maintenance of vehicle	Lumsum			3000	3000
6	Purchase of PVC Pipes.	Lumsum			10000	10000
7	Maintenance of engines	Lumsum			3000	3000
8	Purnning and tending of 700 plants per ha.	3045	2.32/plant	7064		7064
9	Watch and ward for 6 months	Lumsum		40404		40404
10	Misc. and unforeseen expenditure	Lumsum		2000	3000	5000
	TOTAL YEAR 3			106897	40236	147133
11	Administrative charges 10%					14713
	TOTAL					161846

Third Year Maintenance (Year 4)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Spot watering & application of insecticides in 700 plants. (4 times)	3045	15.11/plant	30359	15651	46010
3	hoeing of 700 plants/Ha. (2 times)	3045	5.66/plant	17235	0	17235
4	Repair and maintenance of vehicle	Lumsum			3000	3000
5	Maintenance of engines	Lumsum			3000	3000
6	Purnning and tending of 700 plants per ha. (2 times)	3045	4.64/plant	14129		14129
7	Watch and ward for 6 months	Lumsum		40404		40404
8	Misc. and unforeseen expenditure	Lumsum		2000	3000	5000
	TOTAL YEAR 4			104126	24968	129094
9	Administrative charges 10%					12909
	TOTAL					142003

Fourth Year Maintenance (Year 5)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Spot watering & application of insecticides in 700 plants. (2 times)	3045	7.56/plant	15164	7856	23020
3	Repair and maintenance of vehicle	Lumsum			3000	3000
4	Maintenance of engines	Lumsum			1000	1000
5	Purnning and tending of 450 plants per ha.	1958	7.09/plant	13882		13882

Signature

6	Watch and ward for 6 months	Lumsum		40404		40404
7	Misc. and unforeseen expenditure	Lumsum		2000	3000	5000
	TOTAL YEAR 5			71450	15173	86623
8	Administrative charges 10%					8662
	TOTAL					95285

Fifth Year Maintenance (Year 6)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Spot watering & application of insecticides in 700 plants. (2 times)	3045	7.56/plant	15164	7856	23020
3	Purnning and tending of 400 plants per ha.	1740	7.09/plant	12337		12337
4	Repair and maintenance of vehicle	Lumsum			2000	
5	Watch and ward for 6 months	Lumsum		40404		40404
6	Misc. and unforeseen expenditure	Lumsum		2000	2000	4000
	TOTAL YEAR 6			69905	12173	80077
7	Administrative charges 10%					8008
	TOTAL					88085

Subsequent Maintenance (Year 7 to 12)

S.No.	ITEMS	Quantity	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of datas regarding impact assesment and strengtheing Joint Forest Management.			0	317	317
2	Purnning and tending of 350 plants per ha.	1523	7.09/plant	10798		10798
3	Watch and ward for 3 months	Lumsum		20202		20202
4	Repair and maintenance of vehicle	Lumsum			2000	2000
5	Misc. and unforeseen expenditure	Lumsum		500	1000	1500
	TOTAL YEAR 7			31500	3317	34817
6	Administrative charges 10%					3482
	TOTAL					38298

Grand Total		
0 Year		368291
1 Year		344713
2 Year		234777
3 Year		161846
4 Year		142003
5 Year		95285
6 Year		88085
7 Year		38298
8 Year		38298
9 Year		38298
10 Year		38298
11 Year		38298
12 Year		38298
Total		1664790


 Deputy Conservator of Forest
 IGNP st-II Jaisalmer
 पंकज कुमार गुप्ता
 रा.व.से.
 उपवन संरक्षक
 इ.गा.न.प.स्टेज-II जैसलमेर