FP/RJ/ROAD/21262/2016 Area = 1.2401 ha (1.25 ha) diversion

(Arain - Sarwad Road SH-7E) Ajmer

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MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION

ON ALLOTED NON FOREST LAND

UNIT: 50 Ha

PERIMETER: 60 M/Ha.

LABOUR RATE: Rs.252/Day

COST ESTIMATE: In Rs./Ha.

ADVANCE ACTION (0 YEAR)

S.No.	ITEMS	RATE (Rs,)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	575 / ha	588.00	50.29	638
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	463/ha	462.59	50.29	513
3	Fencing by stone wall and or by ditch.		0.00	0	
	a.) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	225/rmt	7560.00	0	7560
	b.) Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245.16/rmt	8237.92	0	8238
4	Cost of raising 1210 seedlings in nursery.	3.93/- per	3397.86	1730.19	5128
5	Digging of 500 pits size: 0.45x(.4+.5/2)2	17.59/ pit	9855.21	0	9855
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	28.28/rmt	12673.35	0	12673
7	Construction of 15 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub species seeds along its innerside	30.46/ rmt.	512.28	0	512
8	Treatment of Nallas by construction series of Checkdams of dry ramdom rubble/earthan/brushwood	Prorata	734.70	0	735
9	Construction of the pillars of appropiate size and fixing of iron pipe gate with four square column	Prorata	80.45	97.37	178
10	Construction of approach road and Inspection path	Prorata	278.03	0	278
11	Watch and ward @15325 per month for 4 months	Prorata	1450.48	0	1450
12	Construction of Thatched cattle guard hut.	Prorata	141.97	78.11	220
13	Cost of grass and other seeds	Prorata	0.00	242.89	243
14	Labour aminities	Prorata	92.28	85.6	178
15	Purchase of tools and plants	Prorata	0.00	110.21	110
16	Purchase or construction of water storage tank.	Prorata	79.27	48.15	127
17	Purchase of signboards and their fixing	Prorata	31.94	92.02	124
18	Misc. and unforeseen expenses including running of vehicles	Prorata	150.25	162.64	313
	TOTAL YEAR 0		46326.59	2747.76	49074
19	Administrative charges 10%		0.00		4907
	TOTAL		0.00		53982

	YEAR I (PLANTING YEAR)		0.00		
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	71/ha	79.27	0	79
3	Digging of 600 pits of size 0.45 (4+5/2)*2 Cum	17.59/ pit.	11826.25	0	11826
4	Construction of silt detention dams/smal anicut/check dams, etc.	Prorata	3160.06	255.73	3416
5	Maintenance of 1210 seedling in nursery	2.11/ plant	2485.69	341.33	2827
6	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs. (150 plant/ ha)	4.1/plant	688.56	0	689
7	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	984.34	62.06	1046
8	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (370 rmt.)	0.59/ rmt.	231.89	11.77	244
9	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	41.41	3.21	45
10	Transportation of 1100 plants from nursery to planting site	1.41/plant	1668.17	68.48	1737
11	Planting of 1100 seedlings including Refilling of pits	3.58/plant	5049.46	0	5049
12	Making of 1100 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	3.16/plant	4411.77	0	4412
13	Spot watering & application of insecticides in 1100 plants in case of advance planting.	3.16/plant	3904.23	0	3904
14	Additional watering in case of long drought spell with insecticide.	3.57/plant	3904.23	0	3904
15	Weeding and hoeing of 1100 plants in 2 times.	2.03/plant	8797.52	0	8798
16	One additional hoeing of 1100 plants.	1.93/ plant	2511.72	0	2512
17	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the	Prorata	791.49	0	791
18	Purchase of insecticide and Fertilizers for 1100 plants.	0.82/plant	0.00	906.29	906
19	Raising of 110 seedilings in nursery for casualty replacement in year-2 (10% of 1100)	3.93/seedling	308.79	157.29	466
20	Watch and ward @15326 per month for 12 months	prorata	4351.44	0	4351
21	Special protection of frost tender species.	Prorata	41.41	36.38	78
22	Labour aminities.	Prorata.	195.21	23.54	219
23	Repairs of fencing.	193/hact.	230.70	9.63	240
24	Repairs of check dams.	Prorata	84.00	5.35	89
25	Micellaneous and unforeseen expenditure.	Prorata	156.17	117.7	274
	TOTAL YEAR 1		55903.77	2071.52	57975
			0.00		5798
26	Administrative charges 10%		0.00		63773
	TOTAL				

	First Year Maintenance (year 2)				
1	Collection of datas regarding Impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Maintenance of 110 Seedling in nursery for casualty replacement in 2nd year	2.16 /plant	225.97	31.03	257
3	Casualty replacement 110 plants including redigging of pits, transportation planting, watering	11.55/plant	1345.18	69.55	1415
4	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ rmt.	120.68	5.35	126
5	Weeding and Hoeing in 1100 plants in pits two times	3.57/plant	8797.52	0	8798
6	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (185 rmt.)	3.82/plant	792.68	0	793
7	Repair of fencing	216/-ha.	230.70	9.63	240
8	Repairing of Check dams	Prorata	160.90	11.77	173
9	Pruning of Trees species to boost up the growth	Prorata	244.90	12.84	258
10	Wages of Chowkidar @ Rs.15325/ month (only applicable to work chage employee)	prorata	4351.44	0	4351
11	Misc. and unforeseen expenditure	prorata	143.15	67.41	211
	TOTAL YEAR 2		16413.13	280.34	16693
12	Administrative charges 10%		0.00	0	1669
	TOTAL		0.00	0	18363
	SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)		0.00	0	
1	Collection of datas regarding Impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ rmt.	120.68	5.35	126
3	Repair of fencing	216/hact.	230.70	9.63	240
4	Repairing of Check dams	Prorata	8.28	6.42	15
5	Pruning of Trees species to boost up the growth	Prorata	121.86	4.28	126
6	Wages of Chowkidar @ Rs. 15325/- month (only applicable to work chage employee)	prorata	4351.44	0	4351
7	Maintenance of Vehicles	prorata	112.39	100.58	213
	TOTAL YEAR 3.		4945.35	199	5144
	Administrative charges 10%				514
				Total	5659

	GRAND TOTAL	
	0Year	53982
	First Year	63773
	Second Year	18363
	Third Year	5659
	Fourth Year	5659
	Fifth Year	5659
	Sixth Year	5659
	Seventh Year	5659
	Eighth year	5659
	Ninth Year	5659
	Tenth Year	5659
	Eleventh Year	5659
	Twelth Year	5659
	Total	192706
	Say	192700

192700 × 2.8% (259/- labour Rate)
= 5396/-
Total 1 ha Cost is = 192700 + 5396/-
= 198096/-
So NFL CA Cost is = 198096 × 1.25/ha
= 247620/-

(सुनील)
उप वन संरक्षक
अजमेर