

Beawar - Masuda - Croyala Road SH 26-A FP/RJ/ROAD/21372/2013
 Area diversion = 4.9596 ha
 NFL Area = 5.0 ha

MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION
 ON ALLOTTED NON FOREST LAND

UNIT : 50 Ha
 PERIMETER: 60 M/Ha.
 LABOUR RATE: Rs.259/Day
 COST ESTIMATE: in Rs./Ha.

ADVANCE ACTION (0 YEAR)

S.No.	ITEMS	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1.	Collection of Basic Data for Microplanning and carrying out joint forest management activities.	576 / ha.	604.35	50.29	655
2.	Survey of area, lay out of contour trenches, burrow pits and making of segments / plots	463/ha	475.44	30.29	526
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.	7770.00	0	7770
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245.16/rmt.	8466.75	0	8467
4.	Cost of raising 1210 seedlings in nursery.	3.93/- per	3492.24	1730.19	5222
5.	Digging of 500 pits size: 0.45x(4+5/2)z	17.59/ pit	10128.97	0	10129
6.	Digging up 400 rmt Staggered Contour Trenches 15x45cm cross section on middle slopes and V-ditch as per site requirement	28.28/rmt.	13025.39	0	13025
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 inner side	30.46/ rmt.	526.51	0	527
8.	Treatment of Nallas by construction series of Checkdams of dry random rubble/earth/brushwood	Prorata	755.41	0	755
9.	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column.	Prorata	82.69	97.37	180
10.	Construction of approach road and inspection path	Prorata	285.75	0	286
11.	Watch and ward @ 15325 per month for 4 months	Prorata	1490.77	0	1491
12.	Construction of Thatched cattle guard hut.	Prorata	145.92	78.11	224
13.	Cost of grass and other seeds	Prorata	0.00	242.89	243
14.	Labour amenities.	Prorata	94.85	85.6	180
15.	Purchase of tools and plants.	Prorata	0.00	110.21	110
16.	Purchase or construction of water storage tank.	Prorata	81.47	48.15	130
17.	Purchase of signboards and their fixing.	Prorata	32.83	92.02	125
18.	Misc. and unforeseen expenses including running of vehicles	Prorata	154.43	162.64	317
	TOTAL YEAR 0		47613.44	2747.76	50361
19.	Administrative charges 10%				5036
	TOTAL				55397

YEAR I (PLANTING YEAR)

1	Collection of data regarding impact assessment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Layout of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	71/ha	81.47	0	81
3	Digging of 600 pits of size 0.45 (4.5/2)*2 Cum.	17.59/ pit	12154.76	0	12155
4	Construction of silt detention dams/smali anicut/check dams, etc.	Prorata	3247.84	255.73	3504
5	Maintenance of 1210 seedling in nursery	2.11/plant	2554.74	341.33	2896
6	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs. (150 plant/ha)	4.1/plant	707.69	0	708
7	Sowing of pellets of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1011.68	62.06	1074
8	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (370 rmt.)	0.59/ rmt.	238.33	11.77	250
9	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	42.56	3.21	46
10	Transportation of 1100 plants from nursery to planting site.	1.41/plant	1714.51	68.48	1783
11	Planting of 1100 seedlings including Refilling of pits.	3.58/plant	5189.73	0	5190
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	4594.32	0	4594
13	Spot watering & application of insecticides in 1100 plants in case of advance planting.	3.16/plant	4012.68	0	4013
14	Additional watering in case of long drought spell with insecticide.	3.67/plant	4012.68	0	4013
15	Weeding and hoeing of 1100 plants in 2 times.	2.03/plant	9041.90	0	9042
16	One additional hoeing of 1100 plants.	1.93/ plant	2581.49	0	2581
17	Weeding and hoeing on staggered/ continuous contour trenches and "V" ditch including Singling/spacement in the	Prorata	813.48	0	813
18	Purchase of insecticide and Fertilizers for 1100 plants.	0.82/plant	0.00	906.29	906
19	Raising of 110 seedlings in nursery for casualty replacement in year-2 (10% of 1100)	3.93/seedling	317.37	157.29	475
20	Watch and ward @ 18325 per month for 12 months.	prorata	4472.31	0	4472
21	Special protection of frost tender species.	Prorata	42.56	86.38	79
22	Labour amenities.	Prorata	200.83	23.94	224
23	Repairs of fencing.	193/haft.	237.11	9.63	247
24	Repairs of check dams.	Prorata	86.33	5.35	92
25	Miscellaneous and unforeseen expenditure.	Prorata	160.51	117.7	278
TOTAL YEAR 1			57456.66	2071.52	59528
26	Administrative charges 10%				5953
TOTAL					65481

First Year Maintenance (year 2)					
1	Collection of data 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	2.15 /plant	232.25	31.03	263
3	Casualty replacement 110 plants including redigging of pits, transportation planting, watering.	11.55/plant	1382.55	69.55	1452
4	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ mt.	124.03	5.35	129
5	Weeding and hoeing in 1100 plants in pits two times	3.57/plant	8041.50	0	9042
6	Weeding and hoeing on staggered/ continuous contour trenches and "V" ditch including Singling/ spacemant in the line sowing. (185 mt.)	3.82/plant	814.69	0	815
7	Repair of fencing.	216/ ha.	237.11	9.63	247
8	Repairing of Check dams	Prorata	165.37	11.77	177
9	Pruning of Trees species to boost up the growth	Prorata	281.20	12.84	265
10	Wages of Chowkidar @ Rs.15325/ month (only applicable to work chage employee)	prorata	4472.31	0	4472
11	Misc. and unforeseen expenditure	prorata	147.13	67.41	215
TOTAL YEAR 2			16869.05	280	17149
12	Administrative charges 10%				1715
TOTAL					18864

SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)					
1	Collection of data regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ mt.	124.03	5.35	129
3	Repair of fencing	216/hacl.	237.11	9.63	247
4	Repairing of Check dams	Prorata	8.51	6.42	15
5	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
6	Wages of Chowkidar @ Rs. 15325/- month (only applicable to work chage employee)	prorata	4472.31	0	4472
7	Maintenance of Vehicles	prorata	115.52	100.58	216
TOTAL YEAR 3.			5082.72	189	5282
Administrative charges 10%					528
GRAND TOTAL				Total	5810

0Year	55397
First Year	65481
Second Year	18864
Third Year	5810
Fourth Year	5810
Fifth Year	5810
Sixth Year	5810
Seventh Year	5810
Eighth year	5810
Ninth Year	5810
Tenth Year	5810
Eleventh Year	5810
Twelfth Year	5810
Total	197842
Say	198000

$198000 \times 5.0\% = 9,90,000/-$

(सुनील)
उप वन संरक्षक
अजमेर

उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
प्रशिक्षण, अनुसंधान, विज्ञान एवं प्रसारण

(अमर सिंह गोहिल)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर