

Deputy Conservator of Forest and Deputy Field Director-II, RTR, Karauli

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SCHEME FOR COMPENSATORY AFFORESTATION

The non forest land 08.5635 ha. Identify for CA in Khasara No. 1276/1211 of Village-Kased, is suitable for only 300 plants per ha. hence out of 1100 plants per ha. balance 800 plants will be raised over degraded forest land identified in Khasara No. 1211/12 of Village-Kased, Tehsil Sapotra District Karauli protect forest block Chirmil kho kased compartment no.41 and Beet no.27 in Range wildlife Mandrayal District Karauli adjoining the NFL.

Detailed scheme for Compensatory Afforestation to be carried out in lieu of 08.5635 ha. of forest area to be diverted for the Construction of Widening ,Strengthening on Kranapur Mandrail -Ond-Chandelipura Road (MDR-3A) From Kranpur MDR-3A KM Stone No-00.00 to MDR-3A KM Stone No-34.00 , Tehsil- Mandrail ,District -Karauli (Rajasthan)" proposal no. FP/RJ/ROAD/148609/2021.

A- Scheme for Compensatory Afforestation on NFL 08.5635 ha. (2570 plants)

1)	Details of land	Non forest land Identify for C.A. is situated in Khasara No. 1276/1211 of Village-Kased, Tehsil- Sapotra, District- Karauli
	Name of Forest division/ Range	DCF & Dy. FD RTR-II, Karauli/ Range wildlife Mandrayal.
	Area to be afforestation	08.5635 ha.
2)	Description of the area	
A	Whether the site selected for compensatory Afforestation is a land bank or not	Not
B	If the CA site is other than the land bank reasons be given	No land bank exists at Karauli
C	In case of non- forest area identified for CA then what is the distance of C.A. site from the adjoining forest boundary.	0 km.
D	Soil type	soil with bolder /sliced deep ravines
E	Topography	
a)	Hilly/Undulating/Plain	Undulating
b)	Slope: Steep/Medium/Gentle	Medium
F	whether the area is bearing any root of	Yes, it consists Anogeissus pendula trees and

	vegetation	root stock.
3)	Plantation modules Copy of the approved Compensatory Afforestation Scheme / Model showing component	Enclosed Copy of Approved model rate. (Charged only 300 plants / ha.)

4. Schedule of plantation Programme on NFL -

A detail of year-wise break up of requirements of funds is as under

Labour rate Rs 259/day

S No.	Year	Area in Ha.	Model Rate	Amount
1	0 (Advance work)	08.5635	43109	369163.92
2	1 Year 1(planting year)	08.5635	27420	234811.17
3	2 Year (maintenance I st)	08.5635	10259	87852.95
4	3 Year (maintenance II nd)	08.5635	5810	49753.94
5	4Year (maintenance III rd)	08.5635	5810	49753.94
6	5Year (maintenance IV th)	08.5635	5810	49753.94
7	6 Year (maintenance V th)	08.5635	5810	49753.94
8	7Year (maintenance VI th)	08.5635	5810	49753.94
9	8Year(maintenance VII th)	08.5635	5810	49753.94
10	9 Year (maintenance VIII th)	08.5635	5810	49753.94
11	10 Year (maintenance IX th)	08.5635	5810	49753.94
12	11 Year (maintenance X th)	08.5635	5810	49753.94
13	12 Year (maintenance XI th)	08.5635	5810	49753.94
	Total	08.5635	138888	1189367.4

Say Rs. **1189367/-**

Total amount is Rs. **1189367/-** (Eleven lakhs eighty nine Thousand three hundred sixty seven only)

Technical Details :- Technical details of Compensatory Afforestation

Scheme are as follows:-

- (AA) General Details :- 300 plants per hect. proposed for plantation with soil moisture conservation works treatment.
- (BB) Spacing :- 5.77 mts X 5.77 mts.
- (CC) Species :- Ronj, Ber, Kher, Aanwla, Neem, Arjun, Churel etc.
- (DD) Plantation method:- :- By manual pit digging and manual labour.
- (EE) Soil and Moisture conservation works :- 400 rmt. Per hact.
- (FF) Protection (fencing, watch man, People's Participation etc.) :-Ditch/Loose stone wall fencing& watch man.
- (GG) Proposal Monitoring mechanism :-By Field staff, DFO and evaluation team of CCF and PCCF.
- (HH) Any other information :- As per site condition 300 plants /ha. will be raised and other minor variations may be possible from approved model rate.

B- Scheme for Compensatory Afforestation on DFL 22.84 ha. (6850 plants)

1)	Details of land	:- Degraded forest land for C.A. is situated in Khasara No. 1211/12 of Village-Kased, Tehsil Sapotra District Karauli protect forest block Chirmil kho kased compartment no.41 and
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		Beet no.27 in Range wildlife Mandrayal District Karauli adjoining the NFL.
	Name of Forest division/ Range	:- DCF & Dy. FD RTR-II, Karauli/ Range wildlife Mandrayal.
	Area to be afforestation	:- 22.84 ha.
2)	Description of the area	
A	Whether the site selected for compensatory Afforestation is a land bank or not	:- Not Applicable
B	If the CA site is other than the land bank reasons be given	:- Not Applicable
C	In case of forest area identified for CA then what is the distance of C.A. site from the adjoining forest boundary.	:- Situated within Forest
D	Soil type	:- soil with bolder
E	Topography	
c)	Hilly/Undulating/Plain	:- Undulating
d)	Slope: Steep/Medium/Gentle	:- Medium
F	whether the area is bearing any root of vegetation	:- Yes, it consists Anogeissus pendula root stock.
3)	Plantation modules Copy of the approved Compensatory Afforestation Scheme / Model showing component	:- Enclosed Copy of Approved model rate.

4. Schedule of plantation Programme on DFL -

A detail of year-wise break up of requirements of funds is as under

Labour rate Rs 259/day

S No.	Year	Area in Ha.	Model Rate	Amount
1	0 (Advance work)	22.84	40455	923992.2
2	1 Year 1 (planting year)	22.84	27990	639291.6
3	2 Year (maintenance I st)	22.84	9202	210173.68
4	3 Year (maintenance II nd)	22.84	6195	141493.8
5	4Year (maintenance III rd)	22.84	6195	141493.8
6	5Year (maintenance IV th)	22.84	6195	141493.8
7	6 Year (maintenance V th)	22.84	6195	141493.8
8	7Year (maintenance VI th)	22.84	6195	141493.8
9	8Year(maintenance VII th)	22.84	6195	141493.8
10	9 Year (maintenance VIII th)	22.84	6195	141493.8
11	10 Year (maintenance IX th)	22.84	6195	141493.8
12	11 Year (maintenance X th)	22.84	6195	141493.8

13	12 Year (maintenance XI th)	22.84	6195	141493.8
	Total	22.84	139597	3188395.48

Say Rs. 3188395/-

Total amount is Rs. 3188395/- (Thirty One lacks Eighty Eight Thousand Three Hundred and Ninty Five only)

Technical Details :- Technical details of Compensatory Afforestation Scheme over DFL are as follows:-

- (II) General Details :- 300 plants per ha. proposed for plantation with soil moisture conservation works treatment.
- (JJ) Spacing :- Approx 5.77 mts X 5.77 mts.
- (KK) Species :- Ronj, Ber, Kher, Kumatha, Aanwla, Neem, Arjun, Churel etc.
- (LL) Plantation method:- :- By manual pit digging and manual labour.
- (MM) Soil and Moisture conservation works :- 300 rmt. Per ha.
- (NN) Protection (fencing, watch man, People's Participation etc.) :- Ditch/Loose stone wall fencing & watch man.
- (OO) Proposal Monitoring mechanism :- By Field staff, DFO and evaluation team of CCF and PCCF.
- (PP) Any other information :- As per site condition 300 plants /ha will be raised and other minor variations may be possible from approved model rate.

Total financial outlay for CA Scheme :-

S.N.	Area (ha.)	Type of Land	No. of Plants/ha.	Total Plants	Cost in Rs.
A	08.5635	NFL	300	2570	1189367
B	22.84	DFL	300	6850	3188395
Total				9420	4377762

In words rupees :- Forty Three Lacks, Seventy Seven Thousand, Seven Hundred And Sixty Two Only.

(Nahar Singh Sinsinwar)
DCF&Dy.FD-II RTR, Karauli.

MODEL COST ESTIMATES COMPENSATORY AFFORESTATION

ON ALLOTTED NON FOREST LAND

UNIT:- Ha.

PERIMETER:- 60M/Ha.

LABOUR RATE :- 259/day

COST ESTIMATE :- in rs./Ha.

ADVANCE ACTION (0 YEAR)

S.No.'	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of basis data's for microplanning and carrying out joint forest management activities.	575/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	50.29	526
3.	Fencing by stone wall and or by ditch.		0	0	0
	a.) stone wall fencing 1.20 height 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, 1.50mwide at top & 0.90m at bottom (on an average 30m/ha.)	245.16/rmt	8466.75	0	8467
4.	Cost of rising 330 seedling in nursery	3.93/per-	952.38	471.9	1424
5.	Digging of 136 pits size 0.45X(0.4+0.5/2)2	17.59/pit	2754.95	0	2755
6.	Digging of 400 rmt staggered contour trenches 45x45 cm 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 along its inner side	30.46/rmt	526.51	0	527
8.	Treatment of nallas by construction series of check dams of dry random rubble/earthen/brushwood	Prorata	755.11	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 aminities	Prorata	94.85	85.6	180
15.	Purchase of tools and plants	Prorata	0	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		37699.59	1489.47	39190
19.	Administrative charges 10 %				3919
					43109

YEAR 1 (PLANTING YEAR)

S.No.	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of data's regarding impact assessment and strengthening joint forest management	Prorata	0	72.76	73
2.	Layout of staggered/continuous contour trench, v-ditch, contour dykes and pits etc. by contour survey in ¼ area	71/ha	81.47	0	81
3.	Digging of 164 pits size 0.45X(0.4+0.5/2)2	17.59/pit	3322.14	0	3322
4.	Construction of silt detention dams/small anicut/check dams etc.	Prorate	3247.84	255.73	3504
5.	Maintenance of 330 seedling in nursery	2.11/plant	696.96	93.06	790
6.	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees/shrubs (150 plants/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 grass/thorny trees species on the mounds of contour trench and ditch fencing etc. (370m/ha.)	0.59/rnt	238.33	11.77	250
9.	Sowing of seeds of shrub spp. On 60 mt. v-ditch	Prorate	42.56	3.21	46
10.	Transportation of 300 plants from nursery to planting site	1.41/plant	467.4	18.66	486
11.	Planting of 300 seedling including refilling of pits	3.58/plant	1415.40	0	1415
12.	Making of 300 crescent shaped mounds below planted sapling after planting and dibbing 2 of 3 seed of shrub species on the mount	3.16/plant	1236.6	0	1237
13.	Spot watering and application of insecticide in 300 plants in case of advance planting	3.16/plant	1094.10	0	1094
14.	Additional watering in case long drought spell with insecticide	3.57/plant	1094.10	0	1094
15.	Weeding and hoeing of 300 plants n 2 times	2.03/plant	2465.70	0	2466
16.	One addition hoeing of 300 plants	1.93/plant	703.80	0	704
17.	Weeding and hoeing staggered/ continuous contour trenches and v- ditches including singling/spacement in the	Prorata	813.48	0	813
18.	Purchase of insecticide and fertilizers for 300 plants	0.82/plant	0	250.17	250
19.	Rasing of 30 seedling in nursery for casually replacement in year 2 (10% of 300)	3.93/seedling	86.55	42.90	129

20	Watch and ward @15325 per month for 12 months	Prorata	4472.31	0	4472
21.	Special protection of frost tender species	Prorata	42.56	36.38	79
22.	Labour amenities	Prorata	200.63	23.54	224
23.	Repairs of fencing	193/ha.	237.11	9.63	247
24.	Repairs of check dams	Prorata	86.33	5.35	92
25.	Micellaneous and unforeseen exp.	Prorata	160.51	117.7	278
	TOTAL YEAR 1		23925.25	1002.92	24928
26.	Administrative charges 10 %				2492
	TOTAL				27420


 क्षेत्रीय वन अधिकारी
 शम्भुजीव रेंज - मण्डरावल

FIRST YEAR MAINTENANCE (YEAR 2)

S.No.	ITEMS	RATE (Rs)*	Labour Component	Material Component	Total
1.	Collection of data's regarding impact assessment and strengthening joint forest management	Prorata	0	72.76	73
2.	Maintenance of 30 seedling in nursery for casulty replacement in 2 nd year	2.15/plant	63.33	8.46	72
3.	Casualty replacement 30 plants including re-digging of pits, transportation planting watering	11.55/plant	377.04	18.96	396
4.	Sowing/dibbling of seeds of shrub species on the mounds of staggered continuous contour trench v-ditch and ditch fencing including pretreatment of seeds (185m)	0.61/rmt	124.03	5.35	129
5.	Weeding and hoeing of 300 plants in pits 2 times	3.57/plant	2466	0	2466
6.	Weeding and hoeing on staggered/ continuous contour trenches and v- ditches including singling/spacement in the line sowing (185rmt)	3.82/plant	814.69	0	815
7.	Repairs of fencing	216/ha.	237.11	9.63	247
8.	Repairs of check dams	Prorata	165.37	11.77	177
9.	Pruning of tree spicies to boost up the growth	Prorata	251.70	12.84	265
10.-	Wages of chowkidar @ Rs. 15325/month (only applicable to work charge employee)	Prorata	4472.31	0	4472
11.	Misc. and unforeseen expenditure	Prorata	147.13	67.41	215
	TOTAL YEAR 2		9118.71	207.18	9327
12.	Administrative Charges 10 %				932
	TOTAL				10259

Dijendra
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SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

S.No.	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of data's regarding impact assessment and strengthening joint forest management	Prorata	0	72.76	73
2.	Sowing/dibbling of seeds of shrub species on the mounds of staggered continuous contour trench v-ditch and ditch fencing including pretreatment of seeds (185m)	0.61/rmt	124.03	5.35	129
3.	Repairs of fencing	216/ha.	237.11	9.63	247
4.	Repairs of check dams	Prorata	8.51	6.42	15
5.	Pruning of tree species to boost up the growth	Prorata	125.24	4.28	130
6.	Wages of chowkidar@ Rs. 15325/month (only applicable to work charge employee)	Prorata	4472.31	0	4472
7.	Misc. and unforeseen expenditure	Prorata	115.52	100.58	216
	TOTAL YEAR 2		5082.72	199.02	5282
8.	Administrative Charges 10 %	Prorata			528
					5810

GRAND TOTAL	
0 year	43109
First year	27420
Second year	10259
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	138888
SAY	139000


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MODEL COST ESTIMATES COMPENSATORY AFFORESTATION

ON DEGRADED FOREST LAND

UNIT:- Ha.

PERIMETER:- 60M/Ha.

LABOUR RATE :- 259/day

COST ESTIMATE :- in rs./Ha.

ADVANCE ACTION (0 YEAR)

S.No.	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of basis data's for microplanning and carrying out joint forest management activities.	575/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	50.29	526
3.	Fencing by stone wall and or by ditch.		0	0	0
	a.) stone wall fencing 1.20 height 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, 1.50mwide at top & 0.90m at bottom (on an average 30m/ha.)	245.16/rmt	8466.75	0	8467
4.	Cost of rising 330 seedling in nursery	3.93/per-	950.40	473.55	1424
5.	Digging of 300 rmt staggered contour trenches 45x45 cm cross section on middle slopes and V-ditch as per site requirement	28.28/rmt	9769	0	9769
6.	Digging of 130 pits size 0.45X(0.4+0.5/2)2	17.6/pit	2633	0	2633
7.	Cost of collection and purchase of grass and other seeds of trees and shrub	Prorata	0	196	196
8.	Treatment of nallas by construction series of check dams of dry random rubble/earthen/brushwood	Prorata	755.11	0	755
9.	Construction of thatched cattle guard hut	Prorata	140	78	218
10.	Purchase or construction of water storage tank	Prorata	81.47	48.15	130
11.	Labour amenities	Prorata	94.85	85.6	180
12.	Watch and ward@15325 per month for 4 months	Prorata	1490.77	0	1491
13.	Purchase of tools and plants	Prorata	0	110.21	110
14.	Construction of 50 mt. long contour dykes of 30X30 cm cross section on upper slopes and sowing of suitable thorny shrub	30.46/rmt	1753	0	1753
15.	Construction of the pillars of appropriate size for gate	Prorata	82.69	97.37	180
16.	Purchase of signboards and fixing at site	Prorata	33	92	125
17.	Misc. and unforeseen expenses including POL for vehicles	Prorata	288	108	396
	TOTAL YEAR 0		35387.83	1389.46	36778
18.	Administrative charges 10 %				3677
					40455


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YEAR 1 (PLANTING YEAR)

S.No.	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of data's regarding impact assessment and strengthening joint forest management	Proratea	0	73	73
2.	Maintenance of rising 330 seedling in nursery	2.11/plant	737.55	57.42	795
3.	Digging of 170 pits size 0.45X(0.4+0.5/2)2	17.73/pit	3443.69	0	3444
4.	In situ soil and moisture conservation measures like check dams, nadies, earthen bunds etc.	Prorata	2944	243	3187
5.	Digging of 30cm X 30cm cross section trench along inner side of stone wall fencing and seed sowing (60mt/Ha.)	13.43/rmt	837	19	856
6.	Sowing/dibbling of seeds of grass/thorny trees species on the mounds of contour trench and ditch fencing etc. (370m/ha.)	0.59/m	237	13	250
7.	Purchase of insecticide and fertilizers	0.82/plant	0	250	250
8.	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing	Prorata	586	0	586
9.	Transportation of 300 plants from nursery to planting site	1.41/plant	467.10	19.2	486
10	Planting of 300 seedling including refilling of pits	4.09/plant	1415.40	0	1415
11.	Watering (if sufficient rains are not there) & application of insecticide in 300 plants at the time of planting	3.16/plant	1094.40	0	1094
12.	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees/shrubs (150 plants/ha.)	4.1/plant	708	0	708
13	Making crescent shaped mounds below planted sapling after planting and dibbing of 3 seed of thorny tree species 300 plants/ha	3.58/plant	2885	0	2885
14	Weeding and hoeing of 300 plants n 2 times repairing of plants mound	3.57/plant	2466	0	2466
15.	Weeding on contour trenches and v- ditches and spacement/singling	Prorata	608	0	608
16.	Rasing of 30 seedling in nursery for casually replacement in year 2 (10% of 300)	3.94/seedling	86.55	43.26	130
17	Watch and ward for 12 months @15325 per month	Prorata	4472	0	4472
18	Labour amenities and hut repair	Prorata	375	49	424
19	Construction of approach road/inspection path	Prorata	440	0	440
20.	Construction of gate and fixing of sign board	Prorata	586	80	666
21.	Micellneous and unforeseen expenditure	Prorata	179	32	211
	TOTAL YEAR 1		24567.69	878.88	25446
12	Administrative charges 10 %				2544

FIRST YEAR MAINTENANCE (YEAR 2)

S.No.	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of data's regarding impact assessment and strengthening joint forest management	Prorata	0	72.76	73
2.	Maintenance of 30 seedling in nursery for casulty replacement in 2 nd year	2.11/plant	63	8.55	72
3.	Repair of fencing	Prorata	259	0	259
4.	Casualty replacement 30 plants including re-digging of pits, transportation planting watering and application of insecticides	11.55/plant	379.71	16.71	396
5.	Weeding and hoeing of 300 plants in pits 2 times	3.57/plant	2466	0	2466
6.	Watch and ward for 12 months @15325 per month	Prorata	4472	0	4472
7.	Misc. and unforeseen expences including (additional watering and forest protection measure etc.	Prorata	390	238	628
	TOTAL YEAR 2		8029.71	336.02	8366
8.	Administrative Charges 10 %				836
	TOTAL				9202

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SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

S.No.	ITEMS	RATE (Rs)	Labour Component	Material Component	Total
1.	Collection of data's regarding impact assessment and strengthening joint forest management	Prorata	0	72.76	73
2.	Watch and ward for 12 months @15325 per month	Prorata	4472	0	4472
3.	Misc. and unforeseen expenses including (repairing of fencing/ structures pruning etc.)	Prorata	798	289	1087
TOTAL YEAR 2			5270	361.76	5632
4.	Administrative Charges 10 %	Prorata			563
					6195

GRAND TOTAL	
0 year	40455
First year	27990
Second year	9202
Third year	6195
Fourth year	6195
Fifth year	6195
Sixth year	6195
Seventh year	6195
Eighth year	6195
Ninth year	6195
Tenth year	6195
Eleventh year	6195
Twelfth year	6195
Total	139597
SAY	140000

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