



राजस्थान सरकार
वन विभाग
कार्यालय उप वन संरक्षक, कोटा
(सिविल लाईन्स, नयापुरा कोटा ई-मेल—dcf.kota.forest@rajasthan.gov.in)



CA NFL Scheme

Full title of the project – Construction of road under PMGSY Salawadkhurd to barodiya antari
Proposal no. – FP/RJ/ROAD/41556/2019
Proposed diversion area – 4.896 है०
Range – Modak, Kota
Tehsil – Ramganjmandi
Forest Block – Khimach A block

CA details

Proposed CA NFL area – 5.835 hectares
Per hectare plants – 1100 plants / ha.

Sl.No.	Tehsil	Village	Khasra No.	Area proposed to be reserved as NFL (in ha.)
1	Ramganjmandi	Salawad kalan	181/83	0.786
2	Ramganjmandi	Salawad kalan	82	1.529
3	Ramganjmandi	Salawad kalan	76	1.861
4	Ramganjmandi	Salawad kalan	75	1.659
				5.835

CA scheme (per ha.) based on approved NFL (5 ha. model) vide PCCF number F.3(13)PCCF/TREE/Tech./23-24/44 dated 05/02/2025. Labour rate is ₹ 185/- per day.



Signature valid

Digitally signed by Apoorva Krishna
Srivastava
Designation : Deputy Conservator Of
Forest
Date: 2025.03.24 16:35:36 IST
Reason: Approved

69

**MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION
ON ALLOTTED NON FOREST LAND (CA-NFL)**

UNIT : 5 Ha
PERIMETER: 180 M/Ha.
LABOUR RATE: Rs.285/Man
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.	1473.75/ha	1329.99	107.76	1437.75
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	845.92/ha	763.82	82.10	845.92
3	a) Construction of puccka wall 1.20 meter height 0.50 meter base and 0.38 meter top (60meter/ha.)	3328.86/rmt	133296.37	66435.30	199731.67
	b.) Loose Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (60m/ha.)	409.29/rmt	24557.32	0.00	24557.32
	c)Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (60m/ha.)	214.35/rmt	2640.93	10220.16	12861.09
4	Digging of 500 pits size: 0.45x(.4+.5/2)2	22.31/pit	11152.41	0.00	11152.41
5	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in	89.65/ha	89.65	0.00	89.65
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	14252.20	0.00	14252.20
7	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
8	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	90.99	103.66	194.65
9	Construction of approach road and inspection path	Prorata	314.44	0.00	314.44
10	Watch and ward @ 259 per day for 4 months	Prorata	6935.33	0.00	6935.33
11	Construction of Thatched cattle guard hut/Shade.	Prorata	429.15	223.57	652.72
12	Cost of grass and other seeds (3 kg grass seed and 3 kg tree species seed	Prorata	0.00	266.15	266.15
13	Labour aminities	Prorata	104.37	91.13	195.50
14	Construction of water storage tank.	Prorata	89.65	51.26	140.91
15	Purchase of signboards and their fixing	Prorata	36.13	97.96	134.09
16	Misc. and unforeseen expenses including running of vehicles	Prorata	169.93	173.15	343.08
	TOTAL YEAR 0		201716.26	77852.20	279568.46
17	Administrative charges 10%				27956.85
	TOTAL				307525.31
	YEAR I (PLANTING YEAR)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77	77.46
2	Digging of 500 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	11152.41	0.00	11152.41

Signature valid

Digitally signed by Apoorva Krishna
Srivastava

Designation: Deputy Conservator of
Forest

Date: 2025.03.24 15:35:36 IST

Reason: Approved

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई., राज., जयपुर
कोड सं. 19337

(संजय यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

3	Purchase/maintenance of 1100 seedling of 3 to 5 feet height plant	42.58/plant	0.00	46842.40	46842.40
4	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.	Parota	1425.00	0.00	1425.00
5	Sowing of pellets of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
6	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, and ditch fencing including pretreatment of seeds (400 rmt.)	0.64/rmt	255.29	0.00	255.29
7	Transportation of 1100 plants from nursery to planting site including loading and unloading	4.00/plant	3739.23	656.36	4395.59
8	Planting of 1000 seedlings including Refilling of pits	8.53/plant	8527.99	0.00	8527.99
9	Making of 1000 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.92/plant	7922.78	0.00	7922.78
10	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	5.38/plant	4378.00	1002.43	5380.42
11	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18
12	Weeding and hoeing of 1000 plants in 2 times. (Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
13	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward @285 per day for 12 months	prorata	20805.00	0.00	20805.00
16	Special protection of frost tender species.	Prorata	46.83	38.73	85.56
17	Labour amenities.	Prorata	220.77	25.06	245.84
18	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	176.62	125.30	301.92
19	TOTAL YEAR 1		94715.83	48833.81	143549.64
20	Cost escalation in labour amount due to increase in wage rate @5%		4735.79	0.00	4735.79
21	Administrative charges 10%				14354.96
	TOTAL				162640.40
	First Year Maintenance (year 2)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing /maintenance of 110 seedlings for casulty replacement plant size (3 to 5 feet height)	42.58/plant	0.00	4684.24	4684.24
3	Casualty replacement 100 plants including redigging of pits, transportation planting, watering	14.75/plant	1425.00	50.14	1475.14
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 (400 m.)	0.64/rmt	255.29	0.00	255.29
5	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18

Signature valid

Digitally signed by Apoorva Krishna
Srivastava
Designation : Deputy Conservator Of
Forest
Date: 2025.03.24 16:35:36 IST
Reason: Approved

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई., राज., जयपुर
कोड सं. 19337

71

6	Weeding and Hoeing in 1000 plants in pits two times Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
7	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (400 rmt.)	5.02/rmt	2007.10	0.00	2007.10
9	Repair of fencing	Prorata	260.92	10.25	271.17
10	Repairing of Check dams / WHS	Prorata	181.97	12.53	194.50
11	Pruning of Trees species to boost up the growth	Prorata	276.97	13.67	290.64
12	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	20805.00	0.00	20805.00
13	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.67
	TOTAL YEAR 2		58319.71	4920.06	63239.77
13	Cost escalation in labour amount due to increase in wage rate @10%		5831.97	0.00	5831.97
14	Administrative charges 10%				6323.98
	TOTAL				75395.72
Second Year Maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 1000 plants (Total 1000 plants) min 15 lit.	8.80/plant	8803.09	0.00	8803.09
3	Hoeing of the plants before watering of 1000 plants in 1 times (Total 1,000 plants)	2.55/plant	2552.90	0.00	2552.90
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month	prorata	20805.00	0.00	20805.00
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
7	Total Year 3		32460.70	153.78	32614.48
8	Cost escalation in labour amount due to increase in wage rate 15%		4869.10	0.00	4869.10
9	Administrative charges 10%				3261.45
	Grand Total				40745.03
Third Year Maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
3	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	20805.00	0.00	20805.00
4	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
	Total Year 4		21104.71	153.78	21258.49
7	Cost escalation in labour amount due to increase in wage rate 20%		4220.94	0.00	4220.94
8	Administrative charges 10%				2125.85
	Grand Total				27605.29
Fourth Year Maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	20805.00	0.00	20805.00
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66

Signature valid

Digitally signed by Apoorva Krishna
Srivastava 16/03/2025 16:35:36 IST
Designation : Deputy Conservator Of Forest

Date: 2025.03.24 16:35:36 IST

Reason: Approved (प्रमाणित)

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. राज., जयपुर
कोड सं. 19337

मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

72

	Total Year 5		21104.71	153.78	21258.49
7	Cost escalation in labour amount due to increase in wage rate 25%		5276.18	0.00	5276.18
8	Administrative charges 10%				2125.85
	Grand Total				28660.52
	SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.82	4.56	142.37
3	Wages of Chowkidar @ Rs. 259/- day for 12 month	prorata	20805.00	0.00	20805.00
4	Miscellaneous expenditure including Maintenance of Vehicles, repaire of fencing etc.	prorata	161.90	71.76	233.66
	TOTAL YEAR 6-12.		21104.72	153.78	21258.50
5	Cost escalation in labour component due to increase in wage rate @30%		6331.42	0.00	6331.42
6	Administrative charges 10%				2125.85
	GRAND TOTAL				29715.76
	0 Year		307525.31		
	First Year		162640.40		
	Second Year		75395.72		
	Third Year		40745.03		
	Fourth Year		27605.29		
	Fifth Year		28660.52		
	Sixth Year		29715.76		
	Seventh Year		29715.76		
	Eighth year		29715.76		
	Ninth Year		29715.76		
	Tenth Year		29715.76		
	Eleventh Year		29715.76		
	Twelfth Year		29715.76		
	Total		850582.61		
	Say		850600		

- Note:
1. The model is prepared as per directions of MoEF & CC, Gol, New Delhi.
 2. The cost of NFL varies from 580000/- to 1085000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
 3. If the total 1,000 plants have not to be planted at the proposed site, balance plants may be planted in Degarded Forest land.
 4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई. राज., जयपुर
कोड सं. 19337

(संजय राम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

Signature valid

Digitally signed by Apoorva Krishna
Srivastava
Designation : Deputy Conservator Of
Forest
Date: 2025.03.24 16:35:36 IST
Reason: Approved

Per hectare CA amount based on above model = Rs. 8,50,600/-

Therefore, total CA amount proposed for 5.835 ha. NFL = $5.835 \times 8,50,600/-$
= **Rs. 49,63,251/-**

i.e. Forty Nine Lakhs Sixty Three Thousand Two Hundred Fifty One only.

Place: Kota
Date: 23-03-2025

(Signature)
Name: Apoorva Krishna Srivastava
Designation: D.F.O. Kota

Signature valid

Digitally signed by Apoorva Krishna
Srivastava
Designation : Deputy Conservator Of
Forest
Date: 2025.03.24 16:35:36 IST
Reason: Approved

