

# Office of The Deputy Conservator of Forest, Bikaner (Rajasthan)

Full Title of the Project : "Construction of Bikaner (PG) – Khetri S/S 765 kV D/C Transmission Line"

Proposal No: FP/RJ/TRANS/45697/2020

Date of Proposal: 03-06-2020

## CHECK LIST SERIAL NUMBER: 18

### "CA SCHEME FOR DFL"

Compensatory Afforestation Scheme on base : As per Prescribed Approved Model 2019 by GOR.

Detail scheme (On DFL) for Compensatory Afforestation to be carried out in lieu of

1.2223 Ha. Of forest area to be diverted : "Construction of Bikaner (PG) – Khetri S/S 765 kV D/C Transmission Line"

#### 1. Details of degraded forest land/non-forest land :-

District\_\_Bikaner, Village-2MKM, Tehsil: - Lunkaransar , Name of Forest Division

DCF-Bikaner\_\_Range - Lunkaransar , forest Block - Chak -2MKM/Compartment/Survey

No. 02 , Area to be afforested 0 2.4446 Hectare.

#### 2. Description of Area

I) Whether the site selected or Compensatory Afforestation is a land bank or not : ---- NO -----

II) If the CA site is other than the land bank, reasons be given: Degraded Forest land is Identified For Compensatory Afforestation as NFL is exempted for Transmission line project .

III) In case of non forest area identified for CA, then what is the Distance of CA site from the adjoining forest boundary: NIL

IV) Soil type: Sandy Loam and Clay Loam

V) Topography:

(a) Hilly/Undulating/Plain: Plain

(b) Slope: No slope

VI) Whether the area is bearing any root stock of vegetation: Little bit

#### 3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up to be enclosed.

✓  
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बिकानेर

4.

**Schedule o Plantation Programme:-****Detail of year wise break up of requirements of funds is as under:-**

Year	Rate Per Hectare	Degraded Forest Land Area (in Hectare)	Amount (In Rupees)
0 Year (Advance Action)	38499	2.4446	94119
1st Year (Planting Year) Year -1)	35500	2.4446	86788
2nd Year Maintenance (Year -2)	11179	2.4446	27328
2nd Year Maintenance (Year -3)	5165	2.4446	12626
Subsequent Maintenance (Year -4)	5165	2.4446	12626
Subsequent Maintenance (Year -5)	5165	2.4446	12626
Subsequent Maintenance (Year -6)	5165	2.4446	12626
Subsequent Maintenance (Year -7)	5165	2.4446	12626
Subsequent Maintenance (Year -8)	5165	2.4446	12626
Subsequent Maintenance (Year -9)	5165	2.4446	12626
Subsequent Maintenance (Year -10)	5165	2.4446	12626
Subsequent Maintenance (Year -11)	5165	2.4446	12626
Subsequent Maintenance (Year -12)	5165	2.4446	12626
<b>Total Amount for DFL @ 1,36,830/- Ha.</b>			<b>334495/-</b>
<b>C. A. Scheme on base : As per Prescribed Approved Model 2019 by GOR.</b>			<b>Round off Amount as Per CA Model (DFL)</b>
<b>(Approved Model Enclosed)</b>			

5. **Technical details:-**  
 Technical details of Compensatory Afforestation Scheme are as follows:-
- General Details: CA Scheme is prepared for Degraded Forest Land (DFL).
  - Spacing: 3x4 Meter
  - Species: Acacia Tortilis, Rohida, Kumtha, Ber, Khejri and Neem.
  - Plantation Method: Manual/Machinery
  - Soil and Moisture Conservation Works: **As per model**
  - Protection (Fencing, Watch man, People's Participation etc.): -Fencing & Watch man.
  - proposed Monitoring Mechanism" - Ranger, Forester & Forest Guard will be deputed for Supervision.
  - Any other information:- Nil

Place : Bikaner  
 Date : -09-09-2020

(अधीता)  
 उपवन संरक्षक  
 (Anita)  
 Deputy Conservator of Forests,  
 Bikaner

**MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION  
ON DEGRADED FOREST LAND**

UNIT : 50 Ha  
 PERIMETER: 60 M/Ha.  
 LABOUR RATE: Rs. 213/Day  
 COST ESTIMATE: in Rs./Ha.

**0 YEAR (ADVANCE ACTION)**

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Collection of Basic Data for Microplanning and carrying out joint forest management activities.	544/ ha.	457	50	547
2	Survey of area, layout of contour trenches, burrow pits and making of segments/ plots	438 / ha.	391	50	441
3	Fencing by stone wall and or by ditch.			0	
	a.) Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 30 m/ha.)	213 / mt	6390	0	6390
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	232 / mt	6963	0	6963
4	Cost of raising 770 seedlings	3.71 / plant	1824	1105	2929
5	Digging up 300 mt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site	26.78 / mt	8034	0	8034
6	Digging of 300 pits size: 0.45x(0.4+0.5/2)2 cum	16.66 / pit	4998	0	4998
7	Cost of collection and purchase of grass and other seeds of trees and shrubs	Prorata	0	193	193
8	Treatment of Nallas by constructing series of Checkdams of dry random rubble / earthen / brushwood	Prorata	621	0	621
9	Construction of Thatched cattle guard hut	Prorata	115	78	193
10	Purchase or construction of water storage tank.	Prorata	67	48	115
11	Labour amenities	Prorata	78	86	164
12	Watch and ward for 4 months @ 15325/-	Prorata	1226	0	1226
13	Purchase of Tools and Plants		0	110	110
14	Construction of 50 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub	28.84 / mt.	1442	0	1442
15	Construction of the pillars of appropriate size for gate.	Prorata	68	97	165
16	Purchase of signboards & fixing at site	Prorata	27	92	119
17	Misc. and unforeseen expenses including POL for vehicles	Prorata	237	108	345
	<b>TOTAL YEAR 0</b>		<b>32978</b>	<b>2021</b>	<b>34999</b>
18	Administrative charges 10%				3500
				<b>TOTAL</b>	<b>38499</b>

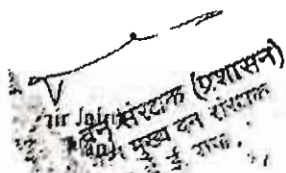
(उप वन संरक्षक (प्लानिंग))  
 (Joshi Jitendra) का संरक्षक  
 DCF (Plan)  
 19337

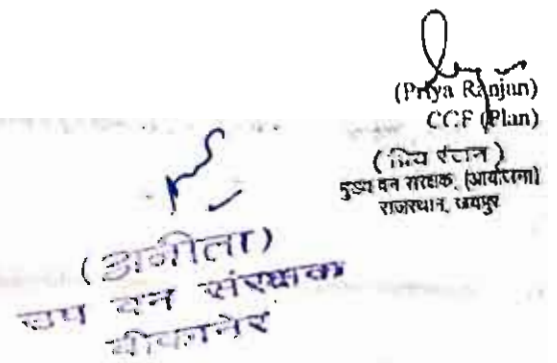
(Priya Kanjan)  
 CCF (Plan)

(उप वन संरक्षक (आयोजना))  
 उप वन संरक्षक (आयोजना)  
 तपस्वी, जयपुर

(अवीला)  
 उप वन संरक्षक  
 डी.फानेर

1	Collection of data regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	13	13
2	Maintenance of 770 seedling in nursery	2.00 / plant	1415	134	1549
3	Digging of 400 pits of size 0.45 (4+5/2)*2 Cum	16.66 / pit	6664	0	6664
4	In situ soil and moisture conservation measures like check dam, nadies, earthen bunds etc.	Prorata	2421	243	2864
5	Digging of 30cmX30 cm cross section trench along inner side of stone wall fencing and seed sowing (60 mt / ha.)	11.77 per rmt.	688	19	707
6	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. ( 370 m / ha.)	0.56/m	195	13	208
7	Purchase of insecticide and Fertilizers.	0.77/ plant	0	577	577
8	Sowing of pellets of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	482	0	482
9	Transportation of 700 plants from nursery to planting site	1.34 / plant	296	45	941
10	Planting of 700 seedlings including Refilling of pits	3.88 / plant	2716	0	2716
11	Watering ( If sufficient rains are not there) & application of insecticide in 700 plants at the time of planting.	3.00/ plant	2100	0	2100
12	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 plants / ha)	3.88 / plant	582	0	582
13	Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species. ( 700 plants / ha)	3.39 / plant	2373	0	2373
14	Weeding and hoeing of 700 plants in 2 time. Repairing of plants mound	3.38 / plant	4732	0	4732
15	Weeding on contour trenches and 'V' ditches and spacemnt / singling.	Prorata	500	0	500
16	Raising of 70 seedlings in nursery for casualty replacement in year-2 (10% of 700).	3.71 / seedling	166	101	267
17	Watch and ward for 12 months @ Rs.15325/- month	prorata	3678	0	3678
18	Labour aminties and hut repair.	Prorata	308	49	357
19	Construction of approach road / inspection path	Prorata	362	0	362
20	Construction of gate and fixing of sign board	Prorata	482	80	562
21	Micellaneous and unforeseen expenditure.	Prorata	147	32	179
	<b>TOTAL YEAR 1</b>		<b>30907</b>	<b>1365</b>	<b>32272</b>
22	Administrative charges 10%				<b>3227</b>
				<b>TOTAL</b>	<b>35500</b>

  
 जिला वन संरक्षक (प्रशासन)  
 जयपुर

  
 (अधीन)  
 जय वन संरक्षक  
 जयपुर

  
 (Pritya Ranjan)  
 CCF (Plan)  
 जय वन संरक्षक (आयोजना)  
 राजस्थान, जयपुर

1	Collection of datas regarding Impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 70 Seedling in nursery for casuality replacement in year-2	2 00 / plant	141	20	141
3	Repair of fencing	Prorata	213	0	213
4	Casuality replacement 70 plants including redigging of pits, transportation planing, watering and application of Insecticides	10 92 / plant	729	39	768
5	Weeding and Hociing in 700 plants in pits two times	3.38 / Plant	4732	0	4732
6	Watch and ward for 12 months @15325/-	prorata / ha	3678	0	3678
7	Misc. and unforeseen expences including (additional watering and forest protection measures etc.	prorata	321	230	559
TOTAL YEAR 2			9794	369	10163
8	Adminstrative Charges 10%				1016
TOTAL					11179
SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watch and ward for 12 months @ 15325/-	prorata	3678	0	3678
3	Misc. and unforeseen expenditure including (repairing of fencing / structures pruning etc.	prorata	656	289	945
4	TOTAL YEAR 3.		4334	362	4696
5	Administrative charges 10%				470
				Total	5165
GRAND TOTAL					
0Year			38499		
First Year			35500		
Second Year			11179		
Third Year			5165		
Fourth Year			5165		
Fifth Year			5165		
Sixth year			5165		
Seventh year			5165		
Eighth year			5165		
Ninth Year			5165		
Tenth Year			5165		
Eleventh Year			5165		
Twelfth Year			5165		
TOTAL			136830		
Say			136830		

(Sudhir Singh) वितरण अधिकारी  
 (S.P. Singh) संरक्षक (प्रशासन)  
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(Priya Ranjan)  
 (Priya Ranjan)  
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 राजस्थान जयपुर

(अजीता)

उप वन संरक्षक  
 बीकानेर