

## Deputy Conservator of Forest, IGNP Stage-I Chhattargarh (Bikaner)

**Full Title of the Project:** Construction of 132 KV S/C Transmission Line for Power Evacuation from 150 MW Chhattargarh Solar Project of NTPC Renewable Energy Limited (A wholly owned subsidiary of NTPC Limited) to 220 KV Chhattargarh Grid Sub Station District-Bikaner in the State of Rajasthan.

**File No. :** FP/RJ/TRANS/148899/2021

**Forest Land Proposed For Diversion:** 3.9007 ha.

**Date of Proposal:** 31/10/2021

### **CHECK LIST SERIAL NUMBER: 18**

#### **"CA SCHEME FOR DFL"**

Detail scheme for (100 Plants) for Compensatory Afforestation to be carried out in lieu of 3.9007 Ha. Of forest area to be diverted for "Construction of 132 KV S/C Transmission Line for Power Evacuation from 150 MW Chhattargarh Solar Project of NTPC Renewable Energy Limited (A wholly owned subsidiary of NTPC Limited) to 220 KV Chhattargarh Grid Sub Station District-Bikaner in the State of Rajasthan"

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

District Bikaner Village Chak -1 CHM Tehsil: Chhattargarh  
Name of Forest Division DCF – IGNP, Stage-I, Chhattargarh Range Chhattargarh  
Block/Compartment/Survey No. 144/61 & 164/05 Area to be  
afforested 12.00 Hectare

**2. Description of Area**

I) Whether the site selected for 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 Projects.

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: Steep/Medium/Gentle: Gentle Slope

VI) Whether the area is bearing any root stock of vegetation: No

**3. Plantation Model:-**

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

4. **Schedule of Plantation Programme:-**

Detail of year wise break up of requirements of funds is as under:

Year	Rate
0 Years (Advance Action)	45141
1st Year (Planting Year)	41724
2nd Year Maintenance (Year-2)	13152
2nd Year Maintenance (Year-3)	6038
Subsequent Maintenance (Year-4)	6038
Subsequent Maintenance (Year-5)	6038
Subsequent Maintenance (Year-6)	6038
Subsequent Maintenance (Year-7)	6038
Subsequent Maintenance (Year-8)	6038
Subsequent Maintenance (Year-9)	6038
Subsequent Maintenance (Year-10)	6038
Subsequent Maintenance (Year-11)	6038
Subsequent Maintenance (Year-12)	6038
<b>Total Amount for DFL @ 1, 60,400/- ha. (Source: As per Approved Model)</b>	<b>Total amount for CA Will Be : 1,60,400 X 12.00 = 19,24,800/- (Nineteen Lakhs, Twenty Four Thousand, Eight Hundred Rupees Only)</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 Nilotica, Acacia Tortilis and Azadirachta Indica and Prosopis cineraria.
- Plantation Method: Manual
- Soil and Moisture Conservation Works: - No
- Protection (Fencing, Watch man, People's Participation etc.): - Fencing & Watch man
- Proposed Monitoring Mechanism: - One Guard will be deputed for Supervision
- Any other information: - Nil

Place: Chhattargarh

Date: 06/05/2022

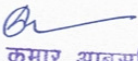
क्षेत्रीय वन अधिकारी  
छत्तरगढ़

(Signature)

Name .....

Designation .....

Official Seal .....

  
शुरेश कुमार अबुसरिया  
उप वन संरक्षक  
नर्मदा गाँधी नहर परियोजना स्टेज एच  
छत्तरगढ़ (सीकानेर)



**Deputy Conservator of Forest, IGNP Stage-I**  
**Chhattargarh (Bikaner)**

**DETAILS OF AMOUNT FOR CA ON DFL**

**Construction of 132 KV S/C Transmission Line for Power Evacuation from 150 MW**  
**Chhattargarh Solar Project of NTPC Renewable Energy Limited (A wholly owned subsidiary**  
**of NTPC Limited) to 220 KV Chhattargarh Grid Sub Station District-Bikaner in the State of**  
**Rajasthan.**

**Forest Diversion Proposal - FP/RJ/TRANS/148899/2021 (3.9007 ha.)**

<b>CA SCHEME – DFL (Labour Rate : 252/- Rupees)</b>					
<b>0 YEAR (ADVANCE ACTION)</b>					
<b>S. No.</b>	<b>ITEM OF WORK</b>	<b>RATE (Rs.)</b>	<b>LABOUR</b>	<b>MATERIAL</b>	<b>TOTAL</b>
1.	Collection of Basic Datas for Microplanning and carrying out joint forest management activities	575/ha	588	50	638
2.	Survey of area, lay out of contour trenches, burrowpits and making of segments/plots.	463/ha	463	50	513
3.	Fencing by stone wall and or by ditch.		0	0	
	a) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	225 / rmt	7560	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	8238	0	8238
4.	Cost of raising 770 seedlings.	3.93/- plant	2158	1105	3263
5.	Digging up 300 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V ditch as per site.	28.28 / rmt	9505	0	9505
6.	Digging of 300 pits size : 0.45x(0.4+0.5/2)2 cum	17.6 / pit	5913	0	5913
7.	Cost of Collection and purchase of grass and other seeds of trees and shrubs.	Prorata	0	196	196
8.	Treatment of Nallas by construction series of checkdams of dry ramdom trubble/earthan/brushwood	Prorata	735	0	735
9.	Construction of Thatched cattle guard	Prorata	136	78	214

	hut				
10.	Purchase of construction of water storage tank	Prorata	79	48	127
11.	Labour amenities	Prorata	92	86	178
12.	Watch and ward for 4 months @15325/-	Prorata	1450	0	1450
13.	Purchase of tools and plants		0	110	110
14.	Construction of 50mt. long contour dykes of 30x30cm. cross section on upper slopes and sowing of suitable thorny shrub	30.46 / rmt	1706	0	1706
15.	Construction of the pillars of appropriate size of gate	Prorata	80	97	178
16.	Purchase of signboards and fixing at site	Prorata	32	92	124
17.	Misc. and unforeseen expenses including PIL for Vehicles	Prorata	280	108	388
	<b>TOTAL YEAR 0</b>		<b>39016</b>	<b>2021</b>	<b>41037</b>
18.	Administrative charges 10%		0		4104
			0	<b>TOTAL</b>	<b>45141</b>

#### YEAR 1 (PLANTING YEAR)

1.	Collection of dates regarding impact assessment and strengthening joint forest management	Prorata	0	73	73
2.	Maintenance of 770 seeding in nursery	2.11 / plant	1674	134	1808
3.	Digging of 400 pits of size 0.45(4+5/2)*2 Cum	17.73 / pit	7884	0	7884
4.	In Situ soil and Moisture conservation measures like check dam, nadies, earthen bunds etc.	Prorata	2864	243	3107
5.	Digging of 30cm x 30cm cross section trench along inner side of stone wall fencing and seed sowing (60 mt / ha)	12.43 Per rmt.	814	19	833
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	231	13	244



7.	Purchase of insecticide and fertilizers.	0.82/plant	0	577	577
8.	Sowing of pellets of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing	Prorata	570	0	570
9.	Transportation of 700 plant from nursery to planting site.	1.41 / plant	1060	45	1105
10.	Planting of 700 seeding including Refilling of pits	4.09 / plant	3213	0	3213
11.	Watering (id sufficient rains are not there) & application of insecticide in 700 plants at the time of planting.	3.16 / plant	2485	0	2485
12.	Restoration of natural regenerations by making crescent shaped mounds on the lower slopes of seeding and sapling and making ring trenches around the natural trees/ shrubs ( 150 plant/ha)	4.1/ plant	689	0	689
13.	Making of crescent shaped mounds below planted sapling after planting and dibbing 3 seeds of thorny tree species (700 plants / ha)	3.58/ plant	2807	0	2807
14.	Weeding and hoeing of 700 plants in 2 times. Repairing of plants mound.	3.57/ plant	5598	0	5598
15.	Weeding on contour trenches and "V" ditches and spacement / singling	Prorata	592	0	592
16.	Raising of 70 seedlings in nursery for casualty replacement year -2 (10% of 700)	3.94/ seeding	196	101	297
17.	Watch and ward for 12 months @ Rs. 15325/- Month	Prorata	4351	0	4351
18.	Labour aminties and hut repair	Prorata	364	49	414
19.	Construction of approach road/inspection path	Prorata	428	0	428
20.	Construction of gate and fixing of sign board	Prorata	570	80	651
21.	Miscellaneous and unforeseen expenditure.	Prorata	174	32	206

	<b>TOTAL YEAR 1</b>		<b>36566</b>	<b>1365</b>	<b>37931</b>
22.	Administrative charges 10%				3793
	<b>TOTAL</b>				<b>41724</b>

#### First Year Maintenance (Year -2)

1.	Collection of dates regarding impact assessment and strengthening joint forest management	Prorata	0	73	73
2.	Maintenance 70 seeding in nursery for casualty replacement in year-2	2.11/plant	143	20	163
3.	Repair of Fencing	Prorata	252	0	252
4.	Casualty replacement 70 plants including redigging of pits, transportation planting, Watering and application of insecticides.	11.55/ Plant	862	39	901
5.	Weeding and hoeing in 700 plants in pits two times	3.57/plant	5598	0	5598
6.	Watch and ward for 12 months@ 15325/-	Prorata/ha	4351	0	4351
7.	Misc. and unforeseen expences including ( additional watering and forest protection measures etc.	Prorata	380	238	617
	<b>TOTAL YEAR 2</b>		<b>11587</b>	<b>369</b>	<b>11956</b>
8.	Administrative charges 10%				1196
	<b>TOTAL</b>				<b>13152</b>

#### SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

1.	Collection of dates regarding impact and strengthening joint Forest Management	Prorata	0	73	73
2.	Watch and ward for 12 months @15325/-	Prorata	4351	0	4351
3.	Misc. and unforeseen expenditure including ( repairing of fensing / structures pruning etc.	Prorata	776	289	1065
	<b>TOTAL YEAR 3</b>		<b>5128</b>	<b>362</b>	<b>5489</b>
4.	Administrative charges 10%				549
	<b>TOTAL</b>				<b>6038</b>



<b>CA SCHEME – DFL (Labour Rate : 252/- Rupees)</b> Construction of 132 KV S/C Transmission Line for Power Evacuation from 150 MW Chhattargarh Solar Project of NTPC Renewable Energy Limited (A wholly owned subsidiary of NTPC Limited) to 220 KV Chhattargarh Grid Sub Station District-Bikaner in the State of Rajasthan Proposal No. FP/RJ/TRANS/148899/2021 (3.9007 ha.)				
Sr No.	Details of Work	Rate Per Hectare	Degraded Forest Land (DFL) Area (in Hectare)	Total Amount for CA (In Rupees)
1	0 Years (Advance Action)	45141	12.00	<b>Total amount for CA Will Be : 1,60,400 X 12.00 = 19,24,800/- (Nineteen Lakhs, Twenty Four Thousand, Eight Hundred Rupees Only)</b>
2	1st Year (Planting Year)	41724	12.00	
3	2nd Year Maintenance (Year-2)	13152	12.00	
4	2nd Year Maintenance (Year-3)	6038	12.00	
5	Subsequent Maintenance (Year-4)	6038	12.00	
6	Subsequent Maintenance (Year-5)	6038	12.00	
7	Subsequent Maintenance (Year-6)	6038	12.00	
8	Subsequent Maintenance (Year-7)	6038	12.00	
9	Subsequent Maintenance (Year-8)	6038	12.00	
10	Subsequent Maintenance (Year-9)	6038	12.00	
11	Subsequent Maintenance (Year-10)	6038	12.00	
12	Subsequent Maintenance (Year-11)	6038	12.00	
13	Subsequent Maintenance (Year-12)	6038	12.00	
<b>Amount for CA (As per Approved Model)</b>		<b>1, 60,399/- or Say 1,60,400/- Per ha.</b>	<b>12.00 ha.</b>	

**Place:** Chhattargarh

**Date:** 06.05.2022

(Signature)

Name ..... **सुरेश कुमार आबुसरिया**

Designation ..... **उप वन संरक्षक**

Official Seal ..... **महाराष्ट्र राज्य पर्यावरण संरक्षण विभाग, बीकानेर**

**क्षेत्रीय वन अधिकारी**  
छत्तारगढ़