Annexure-19

Compensary Afforestation Scheme for double degraded area

Details scheme of Compensatory Afforestation to be carried out in lieu of 0.49 Ha of 66 KV Munpur Sub-Station At:-Reserved Forest Land for Construction of in favour of Gujarat Munpur, Ta. Kadana, Dist:-Mahisagar Energy Transmission CorporationLimited (GETCO)

Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha.to be carried out in lieu of 0.49 ha. of Protected forest land to be diverted in Taluka-Kadana, Dist-Mahisagar of Gujarat State.

1. Details of degraded land.

2 Closing of the Branch Attinuation	
Village	Munpur
Taluka	Kadana
Range	Munpur
District	Mahisagar
Division	Lunawada
Block/ Patal, Compartment No.	248 Pt
Areato be afforested	1.00 Ha.
Working circle	Biodiversity Conservation

2. Description of Area.

Soil type	Soft rock& Black soil
Topography	Plain
Slope	Medium &Gentle
Whether the area is bearing any root stock of Vegetation	Yes

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Area.

Details of Year Wise Break-Up requirement of fund is as under

Daily / Wages-Rs.340.20

Year	Area (ha)	Rate /ha	Total Amount
0 Year 70 %	1	178600	178600
1 st Year	1	84756	84756
2 nd Year	1	57486	57486
3 rd Year	1	47595	47595
4 th Year	1	16823	16823
5 th Year	1	8920	8920
6 th Year	1	9477	9477
7 th Year	1	10035	10035
8 th Year	1	10591	10591
9 th Year	1	11149	11149
10 th Year	1	11707	11707
Total	1	447137	447137
Supervision Charge 20 %	1	89427	89427
Total	1	536565	536565
		Say	536565/-

Compensatory Afforestation will be done in 1.00 ha. Area. The total afforestation cost will be Rs. 536565/-

4. Schedule of Plantation Programme:-

- (i) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Mahisagar-Lunawada Division as early as Possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs. 536565/-Executive Engineer, Construction Division, Jambuva Vadodara has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

5. Technical Details:-

Technical details of Compensatory Afforestation are as Follows:

Sr.	Details	Specifications					
No.	1						
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas Theprevailing wage rate is 340.20 per day.					
b	Spacement	3 X 3 mtr., 1111 plan	ts per ha.				
С	Species to be planted (No.	Khair	180	65 cm			
	of plants per ha.)	Kanaji	70	75 cm			
		Bamboo	40	65 cm			
		Bahedo	20	90 cm			
		Sadad	20	90 cm			
	=	Mahuda	21	75 cm			
	*	Bordi	200	65 cm			
		Amla	260	65 cm			
		Etc.	300	75 cm			
		Total	1111	55cm			
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.					
е	Site Preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 x 45 x 45 cms. will be carried out in the month of Dec-Jan.					
f	Plantation Method	Polypot raised plants will be planted during monsoon.					
g	Soil & Moisture Conservation Works	 (i) Pucca structure like Check dam, check wall, retaining wall (ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. will be dug along the contour line, the dug out soil will be heaped on the down ward side. Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per 					
		requirement. Seeds of Jatropha, Agave plantsetc. will be planted during monsoon in the upper side of nala as pe					

D:\SB TAB-17\Campa\ scheme of Compensatory Affo

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		(1/3)
		suitability.
h	Protection Trench	Barbed wire fenching, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed. 2 nd year two weeding soil working. 3 rd year one weeding soil working.
j	Maintenance	It is proposed to maintain the Plantation up to ten years.
k	Subsequent silvicualtural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.
1	Proposed monitoring mechanism	 (i) A plantation register is to be maintained. (ii) Monitoring is to be done as per the following norms. Forester -100% RFO - 100% ACF - 20% DCF - 10% (iii) The results of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of September and March each year. (iv) The collar girth is also to be reordered at the end of each year. (v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo. (vi) Bamboo would be of the harvestable size by the end of 4th year. (vii) Third party monitoring mechanism is also in the State and if the plantation is in the sample selected, it will also be monitored by the third party selected for this purpose.
m	Regeneration cleaning	Cut-back and promotion of root suckers.
n	Silviculture& other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

(R.B.Patel)
Deputy Conservator of Forest
Mahisagar Division
Lunawada

The Compensatory Afforestation scheme at the cost of Rs. 536565/- is technically and administrative approved by the undersigned.

(R.B.Patel)
Deputy Conservator of Forest
Mahisagar Division
Lunawada



Compensatory Afforestration Scheme for double degraded area Under FCA Proposal

Compensatory Afforestration Scheme for double degraded area under FCA proposal for diversion of 0.49 ha of Reserved forest land for Construction of 66 kv Munpur Sub Station At:Munpur, Ta: Kadana, Dist:Mahisagar in Favour of Gujarat Energy Transmission Corporation Limited(GETCO)

Spacements = 3mx3m

1111 seedling / ha

1st year replacement 10 % = 111 seedling / ha

2nd year replacement 20 % = 111+111 seedling / ha

3rd year replacement 10 % = 111 seedling / ha

Total Seedlings = 1333 seedling / ha

7 Last Size 1 15 cm V 25 cm V 200				e rate: 340.20/Day
Polypot size: 15 cm X 25 cm X 200 Plau ground	Qty.	Labour	Material	Totals
0 year Nursery (a) Cost of soilmanure, seeds, water,fartillizer, insecticides,		21		
(a) Cost of soilmanure, seeds, water, fartilizer, insecticides, implements, rent of lands. Shade. etc. (including '10 % for		_		- 1
	1222	_0	1815	1815
casuality replacement) labour : Preparation of beds, filling and arranging of			_	
labour: Preparation of beus, filling and arranging of	1222	4863	230	5093
(b) bags, showing of seeds, watering shifting, weeding etc.			-	
Seedling cost for casuality replacement in one year old (20 %)	222	1537	419	1956
11/100/\	111	770	209	979
Seedling cost for casuality replacement in two year old (10%)	111	7170	2673	9843
Total		7270		
2. Area Development (Land Preparation)		3824	0	3824
(a) Survey, cutback and promotion of root suckers	1111 00 01	10662	0	10662
Aligment and digging of pits 0.45 X 0.45 X 0.45	<u>.1111@8.84</u>	14485	0	
Total	1111 010	14483	11110	
a) Natural Fertilizer (Neem cake/ Castor cake)	<u>1111@10</u>	0	11110	11110
Total		0	11110	
3. SMC Works				
		40505	22525	37120
a) Check wall/ retaining wall /checkdem (all pucca only)	L.S	13585	23535	3/120
Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt (300			_	10340
h) trench)	600rmt	10340	0	10340
Van Talavadi/Hill Top Tank/Percolation tank/Nala bund,Gully Plug				10000
c) etc.		10960	0	
Total	-	34884	23535	57459
. Protection	۰			
Parhod wire fencing (205 rmt/ Ha., Rs. 400/- per Rmt)	L.S	7672	75000	82000
Seed sowing and planting of cuttings of Ipomea/ Glaricidia along		1		
		1263	473	
o) the fence		8935	75473	
Total for 0 year		65809	112791	178600
t Year	1222	3904	340	4244
Maintenance of nursery (April toJune)	1111	1948	200	2148
Transport of seedling for plantation	1111	6581	C	6581
c) Planting with khamna of Min. 1 m dia				277
Transport & planting of seediling for casualty replacement	111	228		
e) 3 weeding cum soilworking	1111	26802	C	26802
		16401	20539	36940
Support watering 5 times @5.30		5284	C	5284
			C	1327
			_	
Protection / tending operation Tending to natural vegetation Contigency		5284 1327 0	C	13

Total for 1st year		62475	22281	84756
2nd Year		14399	0	14399
(a) 2 weeding & soil working	111+111	239	1041	1280
(b) 20 % Casually replecement, transport and Planting	111.111	1 1/2	1 *	
(c) Natural fertilizer (neem cake / caster cake) etc	Rs. 10/plants	0	12048	12048
0.530		10657	13351	24008
(d) Support watering 3 times @ 5.30		5751	0	5751
(e) Protection / tending operation Total for 2nd Yea	r	31046	26440	57486
Octai for Zhu rea				
3rd Year	+	14399	0	14399
(a) 2 weeding & soil working				200
was a consulty perfectment transport and	111	254	555	809
(b) 10 % Casually Replecement, transport and			13332	13332
(b) Planting, Natural fertilizer, neem cake etc.	Rs. 10/plants	0 4148	4120	8268
(b) Planting, Natural recitizer, Hearing and Color (c) Support watering 1 times @6			0	10786.48091
a standard of forcing / tending Operation	L.S	10786	18007	47595
(d) Protection & maintenance of fericing 7 tenting 6 partial Total for 3rd yea	r	29588	10007	
4thYear		6036	0	6036
1 de la ding & coilworking	L.S	10786	0	10786
Protection & Maintenance of fencing/ Tending operation	-	16823	0	16823
(b) Protection & Maintenance of the Total for 4th Yea				
5thYear S. G. Lainz / tanding operation	L.S	8920	0	8920
Protection & maintenance of fencing/ tending operation Total for 5th Yea			0	8920
	i.			9477
6thYear Protection & maintenance of fencing/ tending operation Total for 6th Yea	L.S	9477	0	9477
Total for 6th Yea	r	9477	- 0	3
7 th Year	L.S	10035	0	10035
Investigation & maintenance of fencing/ tending operation		10035	0	10035
Total for 7th Yea	' 			
8 th Year	L.S	10591	0	10591
8 th Year Protection & maintenance of fencing/ tending operation Total for 8th Yea		10591	0	10591
=				
9 th Year	L.S	11149	0	11149
Protection & maintenance of fencing/ tending operation		11149	0	11149
Total for 9th Yea	r	11145		
10 th Year	L.S	11707	0	11707
In testion & maintenance of fencing/ tending operation		11707	0	11707
Total for 10th Yea		267618	179519	447137
Grand Total	-		35904	89427
The Cost of Supervision/Subsequential Silvicultural operations	20%	53524	215423	536565
The cost of Supervision/Subsequential		321142	213423	

Note:

- .(1) Seed sowing along fensing toword for inner side, and also in the plot
- .(2) Planting of cutting of ipomea/Glaricidia along the fencing towards outer side

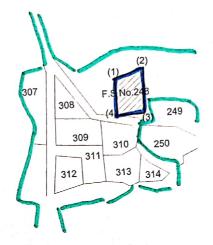
Compensatory afforestation will be done in 1.00 Ha Area

Total Cost Rs.: 5,36,565/-

Deputy Conservator of Forests, Mahisagar Forest Division Lunawada

LOCATION MAP OF DEGRADED FOREST LAND IDENTIFFIED FOR COMPENSATORY AFFORESTATION TO BE CARRIED OUT IN DIVERSION OF 0.49 HA OF PROTECTED FOREST LAND FOR MUNPUR SUB-STATION IN KADANA TALUKA, MAHISAGAR DISTRICT IN GUJARAT STATE FAVOUR OF EXECUTIVE ENGINEER (CONST.) DIVISION JANBUVA.

VILLAGE: MUNPUR, RF.SR.NO: 248 PT., COMPENSATORY AFFORESTATION, AREA: 0.49 Ha.(1.00 Ha.) RANGE: MUNPUR, TALUKA: KADANA, DIVISION: MAHISAGAR, DIST: MAHISAGAR BIODIVERSITY CONSERVATION WORKING CIRCLE, F.S NO: V, COUPE NO: 16



REFERENCE

RESERVED FOREST BOUNDARY

AREA TO BE TAKEN FOR COMP. AFFO.

AREA: 0.49 Ha. (1.00 Ha.)

Deputy Conservator of forests Mahisagar Forest Division Lunawada

SCALE: 1 CM = 79.20 MT.