

Checklist No.18

Diversion of 6.0895 ha in Navsari Social Forestry division for Construction of 765KV D/C Navsari (New) (South Gujarat) (GIS)- Padghe (GIS) Transmission line in Gujarat Under regulated tariff mechanism (RTM) through Social Forest Area.

Detailed of non-forest land/ degraded forest area identified for compensatory afforestation viz. Survey no/ Compt. No. / Khasra No. / Khatoni no., Village, Tehsil, District etc. along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colours and GPS readings.

Sr. No	District / Division	Taluka	Range	Village	Comp No.	F.S. No.	Compt. No.	Area for C.A.	Remarks
1	2	3	4	5	6	7	8	9	10
1	Valsad	Vansda	Vansda	Vagan	28	3	6	13.00 ha.	

Place: Valsad

Deputy Conservator of Forests
Valsad North Division

Model No - 3
Annexure -4 (1)

Compensatory Afforestation Scheme for double degraded area under FCA proposals

Daily wages Rs. 355.30

Spacements = 3 m X 3 m				
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 seedling =1333 seedling/ha.				
polypot size : 15 cm X 25 cm X 200				
Item of work	Qty.	labour	Matrial	Total
1	2	3	4	5
0 Year				
Nursery				
Cost of soil, manure, seeds, water, fartilliser, (a) insecticides, implements, rent of land. Shade, etc. (including 10 % for casuality replacement)	1222	0	2095	2095
labour: Preparation of beds, filling and (b) arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	5125	265	5391
(c) seedling cost for casuality replacement in one year old (20%)	222	1619	484	2103
(d) seedling cost for casuality replacement in two year old (10%)	111	811	241	1052
Total		7555	3085	10641
2. Area Development (Land Preparation)				
(a) Survey, Cutback and promotion of root suckers		3851	0	3851
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	11120	0	11120
Total		14972	0	14972
(a) Natural fertilizer (Neem cake/castor cake)	1111 @ 5.00	0	11343	11343
Total		0	11343	11343
3.SMC Works				
(a) Check wall/ retainingwall/ checkdem/ (all pucca only)	L.S	13681	27158	40839
(b) Contour trench 2 M. X 45 Cm. X 30 Cm. As per Rs.17.00/rmt (300 trench)	600 rmt.	10414	0	10414
Total		24095	27158	51253
4.Protection				
(a) Barbed wire fencing (Including Fitting)	1.00 ha= 350 rmt.	0	152075	152075
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1270	545	1815
Total		1270	152620	153890

Item of work	Qty.	labour	Matrial	Total
Total for 0 year		47892	194207	242099
1st Year				
(a) Maintenance of nursery (April to june)	1222	3932	392	4324
(b) Transport of seedling o plantation	1111	2159	446	2604
(c) Planting with khamna of min 1 m. Doa	1111	6629	0	6629
(d) Transport & planting of seeding for casualty replacement	111	229	51	281
(e) 3 weeding cum soil working	1111	25840	0	25840
(f) Support watering 5 times @ 3.25		16518	23702	40219
(g) Protection /tending operation		5346	0	5346
(h) Tending to natural vegetation		1337	0	1337
(i) Contingency		0	1337	1337
Total for 1st year		61989	25927	87916
2nd Year				
(a) 2 Weeding & soil working		14351	0	14351
(b) 20% Casually replcement, transport and planting	111+111	241	1202	1443
(c) Natural fertilizer (Neem cake/castor cake) etc.	Rs.5/Plant	0	13405	13405
(d) Support watering 5 times @ 3.25		10734	15406	26140
(e) Protection /tending operation		5792	0	5792
Total for 2nd year		31118	30013	61132
3rd Year				
(a) 2 Weeding & soil working		15455	0	15455
(b) 10% Casually replcement, transport and planting	111	130	647	777
(c) Natural fertilizer Neem cake etc.	Rs.5/Plant	0	14437	14437
(d) Support watering 5 times @ 3.25		3854	5530	9384
(e) Protection & maintenance of fancing / tanding operation	L.S	7797	0	7797
Total for 3rd year		27236	20614	47850
4th Year				
(a) 2 Weeding & soil working		8278	0	8278
(b) Protection & maintenance of fancing / tanding operation	L.S	8353	0	8353
Total for 4th year		16632	0	16632
5th Year				
Protection & maintenance of fancing / tanding operation	L.S	8910	0	8910
Total for 5th year		8910	0	8910
6th Year				
Protection & maintenance of fancing / tanding operation	L.S	9467	0	9467

Item of work	Qty.	labour	Matrial	Total
Total for 6th year		9467	0	9467
7th Year				
Protection & maintenance of fancing / tanding operation	L.S	10024	0	10024
Total for 7th year		10024	0	10024
8th Year				
Protection & maintenance of fancing / tanding operation	L.S	10581	0	10581
Total for 8th year		10581	0	10581
9th Year				
Protection & maintenance of fancing / tanding operation	L.S	11138	0	11138
Total for 9th year		11138	0	11138
10th Year				
Protection & maintenance of fancing / tanding operation	L.S	11695	0	11695
Total for 10th year		11695	0	11695
Sub Total:		246683	270761	517444
The cost of supervision / subsequental silvicultureal operations	20%	49337	54152	103489
Grand Total:		296019	324913	620932

Note:


- 1 Seed sowing along fencing towards the 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. 620932/-

Compensatory Afforestation for degraded area 1.00 ha.	Total Ha.	1.00 Ha. Rs.	Total Rs.
	13.00	620932	8072122

Compensatory Afforestation Total cost Rs.80,72,122/-


Deputy Conservator of Forest
Valsad North Division
Valsad

Annexure: 19**Compensatory Afforestation Scheme for degraded area**

Diversion of 6.0895 ha in Navsari Social Forestry division for Construction of 765KV D/C Navsari (New) (South Gujarat) (GIS)- Padghe (GIS) Transmission line in Gujarat Under regulated tariff mechanism (RTM) through Social Forest Area.

Detailed scheme of Compensatory Afforestation for degraded area 13.00 ha. To be carried out in lieu of 6.0895 ha. Of Social Forest land to be diverted in Navsari District.

1 Details of degraded land

Village	:	Vagan
Taluka	:	Vansda
Range	:	Vansda
District	:	Navsari
Division	:	Valsad North Division
Block/Patal, Compartment No.	:	79
Area to be afforested	:	13.00 ha.
Working Circle	:	Reboisement Working Circle

2 Description of Area.

Soil type	Brown-Murom
Topography	Hilly
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Blank

3 Name of Plantation programme:-

Compensatory Afforestation Scheme for degraded area

4 Schedule of Plantation programme:-


- (i) The Compensatory Afforestation on degraded area would be started by Dupety Conservator of Forest Valsad North Division as early as a possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 13.00 ha. Area. The total afforestation cost will be about Rs.80,72,122/- Powergrid Navsari 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. No.	Details	Specifications		
(a)	General Details	The C.A. will be taken under compensatory Afforestation for degraded Forest Areas. The prevailing wage rate is 355.30 per day.		
(b)	Spacement	3 X 3 mtr., 1111 plants per ha.		
(c)	Species to be planted (No. Of plants per ha.)	Khair	150	65 cm.
		Kadaya	100	75 cm.
		Bael	50	65 cm.
		Bamboo	150	65 cm.
		Harde	100	75 cm.
		Sadad	100	90 cm.
		Baheda	50	90 cm.
		Arjun Sadad	100	90 cm.
		Haldu	100	75 cm.
		Bhilamo, Davlo, Tetu, Biyo.	61	65 cm.
		Teak	150	Stump of minimum 6 cm. Girth
		Total:	1111	
(d)	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.		
(e)	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 45X 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) Coutour 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. Gukky plugging & nala banding using the loose stone available in the area will be carried out as per requirement. seeds of jatropa, Agava plants etc... will be planted during monsoon in the upper side of nala as per suitability.		
(h)	Protection Trench	Barbed wire fenching, seed sowing and planting of cuttings of Ipomea / Glarcidia along the fence		
(i)	Silvicultural Operations	1st year three weeding soil working, support watering will be provided if needed. 2nd year two weeding soil working. 3rd year one weeding soil working.		
(j)	Maintenance	It is proposed to maintain the Plantation up to ten years.		

(k)	Subsequent Silvicultural Operation	Cleaning, cutback, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.								
(l)	Proposed monitoring mechanism	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms</p> <table><tr><td>Forester:-</td><td>100%</td></tr><tr><td>RFO:-</td><td>100%</td></tr><tr><td>ACF:-</td><td>20%</td></tr><tr><td>DCF:-</td><td>10%</td></tr></table> <p>(iii) The result 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.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4th year.</p> <p>(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.</p>	Forester:-	100%	RFO:-	100%	ACF:-	20%	DCF:-	10%
Forester:-	100%									
RFO:-	100%									
ACF:-	20%									
DCF:-	10%									
(m)	Regeneration cleaning	Cut-back and promotion of root suckers.								
(n)	Silvicultural & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.								


 Deputy Conservator of Forest
 Valsad North Division
 Valsad

The Compensatory Afforestation scheme at the cost of Rs. 80,72,122/- is technically and administrative approved by the undersigned.


 Deputy Conservator of Forest
 Valsad North Division
 Valsad