Compensatory Afforestation Scheme for double degraded area (Model-3)

Construction of Six lane with paved shoulder of the existing chotila bypass left out section of NH-47 (old NH-8A) from existing km 165+925 to 172+275 on EPC mode (10.08 ha.). Detailed scheme of Compensatory Afforestation for degraded area 21.00 ha to be carried out in lieu of 10.08 ha. of PF land to be diverted in Surendranagar district.

Details of degraded land. 1.

District	Taluka	Range	Village	Survey No.	Area
Surendranagar	Chuda	Wadhawan	Samdhiyala	174 pt	21.00
manufacture of the state of the		Total			21.00

Description of Area.

Soil type	Marraimy		
Topography	Plain		
Slope	Gentle		
Whether the area is bearing any root stock of Vegetation	Most of the area is Degraded		

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Forest Area.

4. Schedule of Plantation Programme:-

- The Compensatory Afforestation on degraded area would be started by Dy.Conservator of (i) Forest Surendranagar Division as early as possible after the proposal is formally approved.
- Compensatory Afforestation will be done in 21.00 ha area. The total afforestation cost will be (ii) about Rs. 10082751/- Executive Engineer, National highway Division, Rajkot 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	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 351.30 per day.				
a	General Details					
b	Spacement	3 X 3 mtr., 1111 plants per ha.				
С	Species to be planted	Kher	200	65 cm		

d:\fca blank & fra\s f divition\21.00 ha. sf surendranagar ca scheme\modeal-3 10.08 ha. ca 21.00 ha. samadhiyala.docx



			150	65 cm		
5	(No. of plants per ha.)	Garmalo	150	65 cm		
		Harmo	150	65 cm		
		Desi Baval	150 75 cm			
		Khakharo	100	50 cm.		
		Pilu	100 50 cm.			
		Gundi		65 cm.		
		Bordi	61			
		Pipar	25	90 cm.		
		Vad	25	90 cm.		
		Total	1111			
		Nine months old polypot rai	sed plants	will be planted at the onset of		
d	Nursery Technique					
e	Site Preparation	10 1 matatook n	resent in the	he area will be cutback & the		
	Site Freparation	in the month of Nov-Dec. Anginitent				
		digging 45 x 45 x 45 cms. will be carried out in the month of Dec-				
		Jan.	planted di	uring monsoon.		
f	Plantation Method	Polypot raised plants will be planted during monsoon. (i) Pucca structure like Check dam, check wall, retaining wall				
g	Soil & Moisture	1 2 00 v 0 45 v 0 30 300 Nos/ha. Will be du				
	Conservation Works	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 Acacia and thorny Etc. will be planted				
	A STATE OF THE	during monsoon in the upper side of nala as per suitability.				
h	Protection Trench	Barbed wire fencing, Seed s	sowing And	d planting of cuttings of thorny		
		Spp. along the fence.				
i	Silvicultural Operations	1styear three weeding so	il working	g, Support watering will be		
		provided if needed.				
		2 nd year two weeding soil w				
	7-19-1-11	3 rd year one weeding soil working.				
j	Maintenance	It is proposed to maintain th				
k	Subsequent			s specific requirement) will be		
	silvicualtural Operation	carried out at the age as per	prescribed	in the working plan.		
1	Proposed monitoring	(i) A plantation register is to be maintained.				
	mechanism	(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				
		(III) The results of surviv	al etc. are	e maintained in the plantation		

(vi) (vii)		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 4 th year. (vii) Third party monitoring mechanism is also in the State and if the plantations in the sample selected, it will also be monitored by the third party selected for this purpose.
m	Regeneration cleaning	promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

(N.J.Parmar) Dy. Conservator of Forest Surendranagar

The Compensatory Afforestation scheme at the cost of Rs. 10082751/- is technically and administrative approved by the undersigned.

> (N.J.Parmar) Dy. Conservator of Forest Surendranagar

Sub:- Construction of six lane with paved shoulder of the existing chotila bypass left out section of NH-47 (old NH-8A) from existing km 165+925 to 172+275 on EPC mode (10.08 ha.)

Daily wages Rs. 351.30

Spacements = 3 m x 3 m				
1111 seedling / Ha				
1st year replacement 10 % = 111 seedling /ha				
2nd year replacement 20 % = 111+111 seedling /na				
3rd year replacement 10 % = 111 seedling /ha				
Total Seedlings = 1333 seedling /ha				
Polypot size: 15 cm x 25 cm x 200		Labour	Material	Total
Item of work	Qty.			
1	2	3	4	5
0 year				
Nursery			0070	0070
(a) Cost of soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0	2072	2072
(b) labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	5068	262	5330
(c) Seedling cost for casuality replacement in one year old (20%)	222	1600	479	2080
(d) Seedling cost for casuality replacement in two year old (10%)	111	802	239	1041
Total		7470	3052	10522
2. Area Development (Land Preparation)			0002	10022
a) Survey, cutback and promotion of root suckers		3809	0	3809
b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10996	0	10996
otal		44005		
a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	14805	11216	14805 11216
otal				
SMC Works		0	11216	11216
	L.S.	13527	26852	40379
(300 trench)	600 rmt.	10297	0	1029
tal Brotostian		22004		
Protection		23824	26852	5067
Barbed wire fencing	111 rmt	3886	34965	

(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia		1255	540	1795
Total		5141	35504	40645
Sub Total of 0 year		51240	76625	127865
1st Year				
(a) Maintenance of nursery (April to June)	1222	3887	387	4275
(b) Transport of seedling for plantation	1111	2133	441	2573
(c) Planting with khamna of Min 1 m dia	1111	6554	0	6554
(d)Transport of seediling for casualty replacement	111	228	51	279
(e) 3 weeding cum soil working	1111	25549	0	25549
f) Support watering 5 times @ 3.25		16332	23435	39766
g) Protection / tending operation		5286	0	5286
h) Tending to natural vegetation		1322	0	1322
) Contigency		0	1322	1322
otal for 1st year		61290	25635	86926
nd Year				
2 weeding & soil working		14190	0	14190
) 20 % Casually replecement, transport and planting	111+111	239	1188	1426
Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	13255	13255
) Support watering 3 times @ 3.25		10612	15232	2584
Protection / tending operation		5727	0	572
tal for 2nd year		30767	29675	6044
2 weeding & soil working		15282	0	1528
10 % Casually replecement, transport and planting	111	128	641	76
Natural fertilizer, neem cake etc.	Rs.5/ plant	0	14274	1427
Support watering 1 times @ 3.25		3810	5468	927
Protection & maintenance of fencing / tending ration	L.S.	7709	0	770
al for 3rd year		26929	20382	473
Year			20002	413
1 weeding & soil working		8186	0	0.1
Protection & Maintenance of fencing/ Tending	L.S.	8259	0	81
I for 4th year		16445	0	164
ection & maintanana af f				
ection & maintenance of fencing/ tending operation I for 5th year	L.S.	8810	0	88
		8810	0	88

6thYear		2001		0004
Protection & maintenance of fencing/ tending operation	L.S.	9361	0	9361
Total for 6th year		9361	0	9361
7thYear				0011
Protection & maintenance of fencing/ tending operation	L.S.	9911	0	9911
Total for 7th year		9911	0	9911
SthYear		10.100		40460
Protection & maintenance of fencing/ tending operation	L.S.	10462	0	10462
Total for 8th year		10462	0	10462
9th Year				
Protection & maintenance of fencing/ tending operation	L.S.	11013	0	11013
Total for 9th year		11013	0	11013
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11563	0	11563
otal for 10th year		11563	0	11563
SUB TOTAL:		247791	152318	400109
he Cost of Supervision/subsequental silvicultureal perations	20%	49558	30464	80022
		297350	182782	480131

(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.

1 Ha cost, Rs. 480131 X 21.00 Ha. = Total Cost Rs.:- 10082751/-

(N.J.Parmar) Dy.Conservator of Forests Surendranagar