

Annexure-19

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

Sub :- Diversion of 4.7732 Ha Reserved Forest land area in Jamnagar district for Upgradation of two lane to Four laning from Kalavad to Jamnagar section from Streteches 50+925 to 4+700 Package-II in the state of Gujarat. Reg Submission of Forest Proposal Under FC Act 1980 (Proposal No.FP/GJ/ROAD/27083/2017)

Detailed scheme of Compensatory Afforestation for degraded area 10 ha. to be carried out in lieu of 4.7732 ha. of forest land to be diverted in Jamnagar district.

1. Details of degraded land:-

District	Taluka	Range	Village	Survey No.	Area
Jamnagar	Kalavad	Jamnagar	Vodisang	206 Pt. 5/1/1	10.00
Total					10.00

2. Description of Area:-

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

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Forest Area.

4. Schedule of Plantation Programme:-

(i)	The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest, Jamnagar as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 10 ha. area. The total afforestation cost will be about Rs. 5475990 Dy.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	Specifications		
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 355.3 per day.		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Kanji	200	75 cm
		Kadayo	100	75 cm
		Neem	200	75 cm
		Gunda	111	75 cm
		Gundi	100	75 cm
		Ardusa	200	75 cm
		Garmalo	100	65 cm
		Khakhra	100	75 cm
		Total	1111	

Sr. No.	Details	Specifications
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 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 Acacia and thorny Etc. will be planted during monsoon in the upper side of nala as per suitability.
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of thorny Spp. 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 silvicultural Operation	Cleaning, 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	(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 4 th 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	promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

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Dy. Conservator of Forest
Jamnagar Forest Division
Jamnagar

3 FEB 2023

The Compensatory Afforestation scheme at the cost of Rs. 5475990/- is technically and administrative approved by the undersigned

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121

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Daily wages Rs. 355.3

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 Seedlings = 1333 seedling /ha				
Polypot size : 15 cm x 25 cm x 200				
Item of work	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	2096	2096
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	5125	265	5391
(c) Seedling cost for casualty replacement in one year old (20%)	222	1619	485	2103
(d) Seedling cost for casualty replacement in two year old (10%)	111	811	241	1053
Total		7555	3087	10642
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3852	0	3852
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	11121	0	11121
Total		14973	0	14973
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	11344	11344
Total		0	11344	11344
3. SMC Works				
(a) Check wall/ retaining wall /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	Rmt. 140	9096	81864	90960
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1270	546	1815
Total		10366	82410	92775
Sub Total of 0 year		56989	123999	180988
1st Year				

(a) Maintenance of nursery (April to June)	1222	3932	392	4323
(b) Transport of seedling for plantation	1111	2157	446	2603
(c) Planting with khamna of Min 1 m dia	1111	6629	0	6629
(d) Transport of seedling for casualty replacement	111	230	52	282
(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		61988	25927	87915
2nd Year				
(a) 2 weeding & soil working		14351	0	14351
(b) 20 % Casually replcement, transport and planting	111+111	241	1201	1442
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	13406	13406
(d) Support watering 3 times @ 3.25		10733	15406	26139
(e) Protection / tending operation		5792	0	5792
Total for 2nd year		31118	30013	61131
3rd Year				
(a) 2 weeding & soil working		15456	0	15456
(b) 10 % Casually replcement, transport and planting	111	130	648	778
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	14437	14437
(d) Support watering 1 times @ 3.25		3854	5530	9384
(e) Protection & maintenance of fencing / tending operation	L.S.	7797	0	7797
Total for 3rd year		27236	20614	47850
4thYear				
(a) 1 weeding & soil working		8279	0	8279
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	8353	0	8353
Total for 4th year		16633	0	16633
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8910	0	8910
Total for 5th year		8910	0	8910
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9467	0	9467
Total for 6th year		9467	0	9467
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10024	0	10024
Total for 7th year		10024	0	10024
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10581	0	10581
Total for 8th year		10581	0	10581
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11138	0	11138

125

Total for 9th year		11138	0	11138
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11695	0	11695
Total for 10th year		11695	0	11695
SUB TOTAL :		255779	200553	456332
The Cost of Supervision/subsequential silvicultureal Operations	20%	51156	40111	91266
		306935	240664	547599

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.

1 Ha cost, Rs. 547599 X 10.00 Ha. = Total Cost Rs. 5475990/-

Dy. Conservator of Forests
Jamnagar Forest Division
Jamnagar

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