

Diversion of 0.0981 Ha. Protected Forest land for retail outlet (Petrol pump) on National Highway 848 Opposite Kaprada Bus Depot at Kaprada Village, Kaprada, Dist: Valsad,

Compensatory Afforestation Scheme for degraded area

Details of degraded land

Village	:	Astol
Taluka	:	Kaprada
Range	:	Fatepur
District	:	Valsad
Division	:	Valsad South
R.F. Survey No.	:	247
Area to be afforested	:	1.00 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:-

- The Compensatory Afforestation on degraded area would be started by Deputy Conservator of Forest Valsad South Division as early as possible after the proposal is formally approved.
- Compensatory Afforestation will be done in 1.00 ha. Area. The total afforestation cost will be about Rs.7,37,000/- 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 suitable degraded Forest Areas. The prevailing wage rate is 351.30 per day.		
(b)	Spacement	3 X 3 mtr., 1111 plants per ha.		
(c)	Species to be planted (No. Of plants per ha.)	Plant	Species	Hight in centimeter
		Khair	150	65
		Kadaya	100	75
		Bael	50	65
		Bamboo	150	50
		Harde	100	75
		Sadad	100	90
		Baheda	50	90
		Arjun Sadad	100	90
		Haldu	100	75

		Garmaro, Sisusam, Ashoka, Bhilamo, Subavar, Kaju, and Aritha	61	65
		Teak	150	90
		Total:	1111	
		Nine months old polypot raised plants will be planted at the		
(d)	Nursery Technique	The malformed rootstock present in the area will be cutback & the		
(e)	Site preparation	will be cleaned in the month of Nov-Dec. Alignment & pit digging, 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.		
(h)	Protection Trench	(ii) Coutour trenches 2.00 X 0.45 X 0.30, 300 Nos/ha. Will be along the contour line. The dug out soil will be heaped on		
(i)	Silvicultural Operations	Barbed wire fencing, seed sowing and planting of cuttings of Ipomea		
(j)	Maintenance	Glarcidia along the fence		
(k)	Subsequent Silvicultural Operation	1st year three weeding soil working, support watering will be provided if needed.		
(l)	Proposed monitoring mechanism	2nd year two weeding soil working.		
(m)	Regeneration cleaning	3rd year one weeding soil working.		
(n)	Silvicultural & other activities	It is proposed to maintain the Plantation up to ten years.		
		Cleaning, cutback, thinning etc. (as per species specific requirements) will be carried out at the age as per prescribed in the working plan.		
		(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 result of survival etc. Are maintained in the plantation		
		(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.		
		Cut-back and promotion of root suckers.		
		Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.		

Deputy Conservator of Forest
Valsad South Division
Valsad

The Compensatory Afforestation scheme at the cost of Rs.7,37,000/- is technically and administrative approved by the undersigned.

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Daily wages Rs. 351.30

placements = 3 m X 3 m

11 seedling/ha.

1st year replacement 20 % = 111+111 seedling/ha.

2nd 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	Material	Total
1	2	3	4	5

0 Year

Nursery

Cost of soil, manure, seeds, water, fertiliser, (a) insecticides, implements, rent of land. Shade, etc. (including 10 % for casualty replacement)	1222	0	2071	2071
labour: Preparation of beds, filling and (b) arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	5068	262	5330
(c) seedling cost for casualty replacement in one year old (20%)	222	1601	448	2080
(d) seedling cost for casualty replacement in two year old (10%)	111	802	238	1040
Total		7470	3051	10521

2. Area Development (Land Preparation)

(a) Survey, Cutback and promotion of root suckers		7739	0	7739
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111@18.00	40375	0	40375
Total		48114	0	48114
(a) Natural fertilizer (Neem cake/castor cake)	1111@8.00	0	11215	11215
Total		0	11215	11215

3. SMC Works

(a) Check wall/ retaining wall/ check dam/ (all pucca only)	L.S	13527	26852	40379
(b) Contour trench 2 M. X 45 Cm. X 30 Cm. As per Rs.17.00/rmt (300 trench)	600 rmt.	69049	0	69049
Total		82576	26852	109428

4. Protection

(a) Barbed wire fencing	1.00ha=200 rmt.	0	143000	143000
(b) Seed sowing and planting of cuttings of Ipomea/ Gliricidia along the fence		1256	539	1795
Total		1256	143539	144795

Item of work	Qty.	labour	Matrrial	To
		139416	184657	32
Total for 0 year				
1st Year				
	1222	3887	388	42
(a) Maintenance of nursery (April to june)	1111	8810	2203	110
(b) Transport of seedling o plantation	1111	8259	0	82
(c) Planting with khamna of min 1 m. Doa	111	1872	474	234
(d) Transport & planting of seeding for casualty replacement	1111	25549	0	255
(e) 3 weeding cum soil working		16332	23435	397
(f) Support watering 5 times @ 3.25		5286	0	528
(g) Protection /tending operation		1322	0	132
(h) Tending to natural vegetation		0	1322	132
(i) Contingency		71317	27820	9913
Total for 1st year				
2nd Year				
		14190	0	14190
(a) 2 Weeding & soil working		1014	4056	5070
(b) 20% Casually replcement, transport and planting	111+111	0	13255	13255
(c) Natural fertilizer (Neem cake/castor cake) etc.	Rs.5/Plant	10613	15233	25846
(d) Support watering 5 times @ 3.25		5727	0	5727
(e) Protection /tending operation		31544	32543	64087
Total for 2nd year				
3rd Year				
(a) 2 Weeding & soil working		15281	0	15281
(b) 10% Casually replcement, transport and planting	111	552	2184	2737
(c) Natural fertilizer Neem cake etc.	Rs.5/Plant	0	14274	14274
(d) Support watering 5 times @ 3.25		3811	5468	9279
(e) Protection & maintenance of fancing / tanding operation	L.S	7709	0	7709
Total for 3rd year		27353	21926	49280
4th Year				
(a) 2 Weeding & soil working		8185	0	8185
(b) Protection & maintenance of fancing / tanding operation	L.S	8259	0	8259
Total for 4th year		16444	0	16444
5th Year				
Protection & maintenance of fancing / tanding operation	L.S	8810	0	8810
Total for 5th year		8810	0	8810
6th Year				
Protection & maintenance of fancing / tanding operation	L.S	9361	0	9361

Item of work	Qty.	labour	Matrrial	Total
Total for 6th year		9361	0	9361
7th Year				
Protection & maintenance of fancing / tanding operation	L.S	9911	0	9911
Total for 7th year		9911	0	9911
8th Year				
Protection & maintenance of fancing / tanding operation	L.S	10462	0	10462
Total for 8th year		10462	0	10462
9th Year				
Protection & maintenance of fancing / tanding operation	L.S	11013	0	11013
Total for 9th year		11013	0	11013
10th Year				
Protection & maintenance of fancing / tanding operation	L.S	11563	0	11563
Total for 10th year		11563	0	11563
Sub Total:		347194	266947	614141
The cost of supervision / subsequental silvicultureal operations	20%	69439	53389	122828
Grand Total:		416633	320336	736969

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. 737000/-

Compensatory Afforestation for degraded area 1.00 ha.	Total Ha.	1.00 Ha. Rs.	Total Rs.
	1.00	737000	737000

Compensatory Afforestation Total cost Rs. 7,37,000/-

To be recovered Rs. 1,32,673 for 200 plants from the user agency

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