

ANNEXURE – NO. 19

Compensatory Afforestation Scheme for Double Degraded Area

Detailed scheme of Compensatory Afforestation to be carried out in field of forest land to be Diversion of 10.80 Ha Protected Forest Land of Road Side For Construction of Pagdandi on Ahemdabad-viramgam -Mamdal - Dasada -Panchasar-Shankhesver Road District : Patan in Guajarat State. (Propasal no-fp/gj/Road/48671/2020)

Total diversion area : 10.80 Ha. (Total C.A. Area 22.00 Ha.)

(1) Details of Degraded-forest land.

Village	:	Rajusara
Taluka	:	Santalpur
Range	:	Santalpur Normal
District	:	Patan
Division	:	Patan
Block/Patal. Compartment No.	:	104
Area to be afforested	:	22.00 Ha.
Working Circle	:	Plantation Working Circle

(2) Description of Area.

Soil type	:	Black cotton with Murom
Topography	:	undulating with gentle slop
Whether the area is bearing any root stock or Vegetation	:	Yes

(3) Name of Plantation Programmed

Compensatory Afforestation Scheme for Double Degraded Area

(4) Schedule of plantation programme

(i)	The Compensatory Afforestation on degraded forest land would be started by Dy. Conservator of Forest, Patan Division, Patan (Gujarat) as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 22.00 ha area. The total afforestation cost will be about Rs;-1,20,45,211/-For Protected Forest Land of Road Side For Construction of Pagdandi on Ahemdabad-viramgam -Mandal -Dasada -Panchasar-Shankhesver Road District : Patan in Guajarat State. Erection 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 :


Sr.No.	Details	Specification
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a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Area, The prevailing wage rate is 340.20 per day.																
b	Spacement	3.00 x 3.00 Mtr 1111 Plants per ha.																
c	Species to be planted (No. of plants per Ha)	<table><tr><td>Gorad</td><td>51</td></tr><tr><td>Pilu</td><td>550</td></tr><tr><td>Gugal</td><td>100</td></tr><tr><td>Liyar</td><td>60</td></tr><tr><td>Desi Baval</td><td>50</td></tr><tr><td>Untmarod</td><td>300</td></tr><tr><td>Total..</td><td>1111</td></tr></table>	Gorad	51	Pilu	550	Gugal	100	Liyar	60	Desi Baval	50	Untmarod	300	Total..	1111	Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.	
Gorad	51																	
Pilu	550																	
Gugal	100																	
Liyar	60																	
Desi Baval	50																	
Untmarod	300																	
Total..	1111																	
d	Nersery Technique	Nine months old polypot raised plants will be planted at the onest 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 & pitdigging 45x45x45 cms. will be carried out in the month of Dec-Jan.																
f	Plantation Method	Ppypot 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 2.00x0.45x0.30.300 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. Secds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.																
h	Protection	Barbed wire fenching Protection Trench. Seed sowing and planting of cuttingof Ipomea/Glarcidia along the fence.																
i	Weeding & Watering	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 maintain the Plantation up to ten years																
k	Subsequent silvicultural Operations	Cleaning cutbacks. thinning etc. (as per species specific requerment) 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 following norms. Forester 100% RFO 100% ACF 20% DCF 10% (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>(iv) The collar girth is also to be recorded at the end of each year.</p> <p>(v) At the end of maintainance 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>
m	Regeneration cleaning	Cut-back and promotion of root stuckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up. as the area falls under degradee forest land.

Place :- Patan


Date :- 22/09/2021


Deputy Conservator of Forest
Patan Forest Division Patan

The Compensatory Afforestation scheme at the cost Rs=1,20,45,211/- is technically and administrative approved by undersigned

Place :- Patan

Date :- 22/09/2021


Deputy Conservator of Forest
Patan Forest Division Patan

Compensatory Afforestation Scheme for double degradation areas

Detailed scheme of Compensatory Afforestation to be carried out in field of forest land to be Diversion of 10.80 Ha Protected Forest Land of Road Side For Construction of Pagdandi on Ahemdabad-viramgam -Mandal -Dasada - Panchasar-Shankhesver Road District : Patan in Gujarat State. (Propasal no-fp/gj/Road/48671/2020)

(CA Area 22.00 Ha. At-Rajusara, Ta-Santalpur, District-Patan)

Spacements = 3m x 3m

1111 seedling/ Ha

1st Year replacement 10% = 111 seedlings/ha

2nd Year replacement 20% = 111+111 seedlings/ha

3rd Year replacement 10% = 111 seedlings/ha

Total Seedlings = 1333 seedling/ha

Polypot size: 15 cm x 25 cm x 200

	Item of Work	Qty	Daily wages Rate Rs. 340.20/-		
			Labour	Material	Total
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	2005	2005
(b)	Labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering, shifting, weeding etc.	1222	4908	254	5162
(c)	Seedling cost for casualty replacement in one year old (20%)	222	1551	463	2014
(d)	Seedling cost for casualty replacement in one year old (10%)	111	777	231	1008
	Total		7236	2953	10189
2. Area Development (Land Preparation)					
(a)	Survey, cutback and promotion of root suckers		3687	0	3687
(b)	Alignment and digging of pits 0.45x0.45x0.45	1111 @6.00	10648	0	10648
	Total		14335	0	14335
(a)	Natural fertilizer (Neen cake/ Castor cake)	1111 @5.00	0	10861	10861
	Total		0	10861	10861
3.SMC Works					
(a)	Check wall/ retaining wall/ checkdam (all pucca only)	L.S	13100	26004	39104

(b)	Contour trench 2Mx45Cmx30Cm as per Rs.17.00/ rmt (300 trench)	600 rmt	9971	0	9971
Total			23071	26004	49075
4. Protection					
(a)	Barbed wire fencing	L.S	3910	39104	43014
(b)	Seed sowing and planting of cutting of Ipomea/ Glaricidia along the fence		1216	523	1739
Total			5126	39627	44753
Sub total of 0 year			49768	79445	129213
1st Year					
(a)	Maintenance of nursery (April to june)	1222	3764	376	4140
(b)	Transport of seedling of plantation	1111	20379	426	20805
(c)	Planting with khamna of Min 1m dia	1111	6347	0	6347
(d)	Transport of seedling of casualty replancement	111	220	49	269
(e)	3 weeding cum soil working	1111	25847	0	25847
(f)	Support watering 5 times @ 3.25		15816	22694	38510
(g)	Protection/ tending operation		5096	0	5096
(h)	Tending to natural vegetation		1279	0	1279
(i)	Contingency		0	1279	1279
Total for 1st Year			78748	24824	103572
2nd Year					
(a)	2 Weeding & soild working		13885	0	13885
(b)	20% Casualty replacement, transport and planting	111+111	231	1150	1381
(c)	Natural fertilizer (neem cake/ caster cake) etc	Rs.5/ plant	0	12836	12836
(d)	Support watering 3 times @ 3.25		10277	14752	25029
(e)	Protection/ tending operation		5546	0	5546
Total for 2nd Year			29939	28738	58677
3rd Year					
(a)	2 Weeding & soild working		14655	0	14655
(b)	10% Casualty replacement, transport and planting	1111	124	620	744
(c)	Natural fertilizer (neem cake/ caster cake) etc	Rs.5/ plant	0	14071	14071
(d)	Support watering 3 times @ 3.25		3690	5295	8985
(e)	Protection & maintenance of fencing/ tending operation	L.S	9583	0	9583
Total for 3rd year			28052	19986	48038
4th year					
(a)	1 Weeding & soil working		8093	0	8093
(b)	Protection & Maintenance of fencing/ Tending operation	L.S	7998	0	7998
Total for 4th year			16091	0	16091
5th Year					
	Protection & maintenance of fencing/ tending operation	L.S	8532	0	8532


Total for 5th year			8532	0	8532
6th Year					
	Protection & maintenance of fencing/ tending operation	L.S	9065	0	9065
Total for 6th year			9065	0	9065
7th Year					
	Protection & maintenance of fencing/ tending operation	L.S	9598	0	9598
Total for 7th year			9598	0	9598
8th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10131	0	10131
Total for 8th year			10131	0	10131
9th Year					
	Protection & maintenance of fencing/ tending operation	L.S	10665	0	10665
Total for 9th year			10665	0	10665
10th Year					
	Protection & maintenance of fencing/ tending operation	L.S	11198	0	11198
Total for 10th year			11198	0	11198
TOTAL			261787	152993	414780

Note:-

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

Place :- Patan

Date :- ..22/..7./ 2021


Deputy Conservator of Forest
Patan Forest Division Patan

Checklist No :- 19 - B

Detailed scheme of Compensatory Afforestation to be carried out in field of forest land to be diverted for Proposal for diversion of 10.80 hecter Protected Forest Land of Road Side For Construction of Pagdandi on Ahemdabad-virangam -Mandal -Dasada -Panchasar-Shankhesver Road District : Patan in Guajarat State. (Propasal no-fp/gj/Road/48671/2020)

Total diversion area: 10.80 Ha. (Total C.A. Area 22.00 Ha.)

Rate Structure for Compensatory Afforestation for the Year 2020-21

Daily wages Rate Rs. 340.20/-

Sr. No.	R-2 MODEL	Rate/ha.	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total	
1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	
1	Model No.3	A	Normal Rate	129213	103572	58677	48038	16091	8532	9065	9598	10131	10665	11198	414780	82956	497736
2	Annexure-4(1)	B	Increased by 10% yr	12921	10357	5868	4804	1609	853	907	960	1013	1067	1120	41478	16591	58069
Total			142134	113929	64545	52842	17700	9385	9972	10558	11144	11732	12318	456258	91252	547510	

Place :- Patan

Date :- 22/7/2021


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Patan Forest Division Patan

Detailed scheme of Compensatory Afforestation to be carried out in field of forest land to be Diversion of 10.80 Ha Protected Forest Land of Road Side For Construction of Pagdandi on Ahemdabad-viramgam -Mandal -Dasada -Panchasar-Shankhesver Road District : Patan in Gujarat State. (Propasal no-fp/gj/Road/48671/2020)

22.00.00 Ha. Compensatory Afforestation At-Rajusara, Ta-Santalpur, District-Patan


Details of Year wise break-up of requirement of fund is as under

Daily wages Rate Rs. 340.20/-

Year	Hectare	Rate (Rs.)	Amount (Rs.)
0 Year	22.00	142134	3126955
1 st Year	22.00	113929	2506442
2 nd Year	22.00	64545	1419983
3 rd Year	22.00	52842	1162520
4 th Year	22.00	17700	389402
5 th Year	22.00	9385	206474
6 th Year	22.00	9972	219373
7 th Year	22.00	10558	232272
8 th Year	22.00	11144	245170
9 th Year	22.00	11732	258093
10 th Year	22.00	12318	270992
Total		456258	10037676
Supervision Charges 20 %	20%	91252	2007535
Grand Total		547510	12045211

Place :- Patan

Date :-/...../ 2021


Deputy Conservator of Forest
Patan Forest Division Patan