

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 diverted for Proposal for diversion of 4.55.70 hector of Forest land for Construction of 220 S/C Renew Pooling s/s- CHARANKA S/S Transmission Line on D/C tower with ACSR zebra Conductor under Renew Sun Energy Private Limited Undertaking Government of Gujarat.

Total diversion area: 04.55.70 Ha. (Total C.A. Area 09.50 Ha.)

(1) Details of Degraded-forest land.

Village	:	Roza
Taluka	:	Santalpur
Range	:	Santalpur
District	:	Patan
Division	:	Patan
Block/Patal. Compartment No.	:	65/Part
Area to be afforested	:	09.50 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 09.50 ha area. The total afforestation cost will be about Rs.4584630/- Executive Engineer PIU (WB Project) Road & Building Department, Govt. of Gujarat, Gandhinagar 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 :

Sr.No.	Details	Specification																
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Area, The prevailing wage rate is 310.40 per day.																
b	Spacing	3.00 x 3.00 Mtr 1111 Plants per ha.																
c	Species to be planted (No. of plants per Ha)	<table border="1"> <tr> <td>Gorad</td> <td>151</td> <td rowspan="6">Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.</td> </tr> <tr> <td>Pilu</td> <td>300</td> </tr> <tr> <td>Gugal</td> <td>100</td> </tr> <tr> <td>Liyar</td> <td>160</td> </tr> <tr> <td>Desi Baval</td> <td>100</td> </tr> <tr> <td>Boradi</td> <td>300</td> </tr> <tr> <td>Total..</td> <td>1111</td> <td></td> </tr> </table>	Gorad	151	Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.	Pilu	300	Gugal	100	Liyar	160	Desi Baval	100	Boradi	300	Total..	1111	
Gorad	151	Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.																
Pilu	300																	
Gugal	100																	
Liyar	160																	
Desi Baval	100																	
Boradi	300																	
Total..	1111																	
d	Nersery 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 & pitdigging 45x45x45 cms. will be carried out in the month of Dec-Jan.																
f	Plantation Method	Ppolyot raised plants will be planted during monsoon.																
g	Soil & Moisture Conservation Works	(i) Pucca structure like check dam, check wall, Forest Pond, 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 Trench	Border Protection trench, Barbed wire fencing. Seed sowing and planting of cuttingof Ipomea/Glarcidia along the fence.																
i	Protection Trench	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 100%
		DCF 100%
		(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.
		(iv) The collar girth is also to be recorded at the end of each year.
		(v) At the end of maintainance 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.
m	Regeneration cleaning	Cut-back and promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up. as the area falls under degradee forest land.

Place :- Patan

Date :- 6/5/2020



Deput Conservator of Forest
Patan Forest Division Patan

The Compensatory Afforestation scheme at the cast **Rs.4584630/-** is technically and administrative approved by undersigned

Place :- Patan

Date :- 6/5/2020



Deput 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 diverted for Proposal for diversion of 4.55.70 hector of Forest land for Construction of 220 S/C Renew Pooling s/s- CHARANKA S/S Transmission Line on D/C tower with ACSR zebra Conductor under Renew Sun Energy Private Limited Undertaking Government of Gujarat.

(CA Area 09.50 Ha. At-Rozu, 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. 310.40/-		
			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	1830	1830
(b)	Labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering, shifting, weeding etc.	1222	4478	232	4710
(c)	Seedling cost for casualty replacement in one year old (20%)	222	1415	422	1837
(d)	Seedling cost for casualty replacement in one year old (10%)	111	709	211	920
Total			11895	21117	33012
2. Area Development (Land Preparation)					
(a)	Survey, cutback and promotion of root suckers		3364	0	3364
(b)	Alignment and digging of pits 0.45x0.45x0.45	111 @6.00	9715	0	9715
Total			13079	0	13079
(a)	Natural fertilizer (Neen cake/ Castor cake)	111 @5.00	0	9910	9910
Total			0	9910	9910
3.SMC Works					

(a)	Check wall/ retaining wall/ checkdam (all pucca	L.S	11952	23726	35678
(b)	Contour trench 2Mx45Cmx30Cm as per Rs.50.70/ rmt (300 trench)	600 rmt	9097	0	9097
Total			21049	23726	44775
4. Protection					
(a)	Barbed wire fencing	L.S	3568	35678	39246
(b)	Seed sowing and planting of cutting of Ipomea/ Gliricidia along the fence		1110	477	1587
Total			4678	36155	40833
Sub total of 0 year			50701	90908	141609
1st Year					
(a)	Maintenance of nursery (April to june)	1222	3435	343	3778
(b)	Transport of seedling of plantation	1111	18594	389	18983
(c)	Planting with khamna of Min 1m dia	1111	5791	0	5791
(d)	Transport of seedling of casualty replancement	111	201	44	245
(e)	3 weeding cum soil working	1111	23583	0	23583
(f)	Support watering 5 times @ 3.25		14430	20706	35136
(g)	Protection/ tending operation		4649	0	4649
(h)	Tending to natural vegetation		1167	0	1167
(i)	Contigency		0	1167	1167
Total for 1st Year			71850	22649	94499
2nd Year					
(a)	2 Weeding & soild working		12669	0	12669
(b)	20% Casualty replacement, transport and planting	111+111	211	1049	1260
(c)	Natural fertilizer (neem cake/ caster cake) etc	Rs.5/ plant	0	11711	11711
(d)	Support watering 3 times @ 3.25		9377	13459	22836
(e)	Protection/ tending operation		5060	0	5060
Total for 2nd Year			27317	26219	53536
3rd Year					
(a)	2 Weeding & soild working		13372	0	13372
(b)	10% Casualty replacement, transport and planting	111	113	566	679
(c)	Natural fertilizer (neem cake/ caster cake) etc	Rs.5/ plant	0	12838	12838
(d)	Support watering 3 times @ 3.25		3367	4831	8198
(e)	Protection & maintenance of fencing/ tending operation	L.S	8743	0	8743
Total for 3rd year			25595	18235	43830
4th year					
(a)	1 Weeding & soil working		7384	0	7384
(b)	Protection & Maintenance of fencing/ Tending operation	L.S	7298	0	7298
Total for 4th year			14682	0	14682

5th Year					
Protection & maintenance of fencing/ tending operation	L.S	7785	0	7785	
Total for 5th year		7785	0	7785	
6th Year					
Protection & maintenance of fencing/ tending operation	L.S	8271	0	8271	
Total for 6th year		8271	0	8271	
7th Year					
Protection & maintenance of fencing/ tending operation	L.S	8758	0	8758	
Total for 7th year		8758	0	8758	
8th Year					
Protection & maintenance of fencing/ tending operation	L.S	9243	0	9243	
Total for 8th year		9243	0	9243	
9th Year					
Protection & maintenance of fencing/ tending operation	L.S	9730	0	9730	
Total for 9th year		9730	0	9730	
10th Year					
Protection & maintenance of fencing/ tending operation	L.S	10217	0	10217	
Total for 10th year		10217	0	10217	
SUB TOTAL		244149	158011	402160	
The Cost of Supervision/subsequential silviculturel Operation	20%	48830	31602	80432	
		292979	189613	482592	

Note:-

- (1) Seed sowing along fencing towards the inner side, and also in
- (2) Planting of cutting of ipomea//Glarcidia along the fencing
- (3) Planting of 25 seedling of Deshi Mango in a pit size of


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Checklist No :- 19 - B

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Total diversion area: 04.55.70 Ha. (Total C.A. Area 09.50 Ha.)

Rate Structure for Compensatory Afforestation for the Year 2020-21

Daily wages Rate Rs. 310.40/-

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	12	14	15	16	17	18
1	Model No.3	A	Normal Rate	141609	94499	53536	43830	14682	7785	8271	8758	9243	9730	10217	402160	80432	482592
2	Annexure-4(1)	B	Increased by 20% yr	28322	18900	10707	8766	2936	1557	1654	1752	1849	1946	2043	80432	16086	96518

Place:- Patan

Date :- /


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Detailed scheme of Compensatory Afforestation to be carried out in field of forest land to be diverted for Proposal for diversion of 4.55.70 hectore of Forest land for Construction of 220 S/C Renew Pooling s/s- CHARANKA S/S Transmission Line on D/C tower with ACSR zebra Conductor under Renew Sun Energy Private Limited Undertaking Government of Gujarat.

09.50 Ha. Compensatory Afforestation At-Rozu, Ta-Santalpur, District-Patan

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

Daily wages Rate Rs. 310.40/-

Year	Hectare	Rate (Rs.)	Amount (Rs.)
0 Year	9.50	141609	1345286
1 st Year	9.50	94499	897741
2 nd Year	9.50	53536	508592
3 rd Year	9.50	43830	416385
4 th Year	9.50	14682	139479
5 th Year	9.50	7785	73958
6 th Year	9.50	8271	78575
7 th Year	9.50	8758	83201
8 th Year	9.50	9243	87809
9 th Year	9.50	9730	92435
10 th Year	9.50	10217	97062
Total		402160	3820523
Supervision Charges 20 %	20%	80432	764105
Grand Total		482592	4584628
		Say...	4584630


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Land Suitability certificate for Afforestation.

This is the Certify that the area of the degraded reserved Forest land survey no 65/part. 340.39.00 Ha. of 09.50 at the Village-Rozu, Ta-Santalpur, Dist-Patan is suitable for Compensatory afforestation.



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Patan Forest Division Patan**

Annexure-32

DGPS map of Non Forest Area At-Rozu, Ta-Santalpur, Dist-Patan 09.50 Ha

in case of give lat long of poligon

Sr.No.	Lat	Lang
1	23 ⁰ 42' 39.47" N	71 ⁰ 04' 01.83" E
2	23 ⁰ 42' 38.89" N	71 ⁰ 03' 46.16" E

Place : Patan

Date :/...../ 2020


Deputy Conservator of Forest

Patan Forest Division Patan