

Annexure-19
Compensatory Afforestation Scheme for double degraded area

Diversion of 2.34 ha Reserved forest Land the Project of Widening and Strengthening of Khambhala to Kotdapitha -Thorkhana Road, (MDR) k.m.0/0 to 29/6 Ta.Babra. Dist. Amreli in Gujarat state.

Detailed scheme of Compensatory Afforestation to be carried out in lieu of 2.34 Ha. Of Non-Forest Area by Executive Engineer (R & B) Division Amreli.

3. **Details of degraded land.**
The Villages, Talukas, Ranges, Districts and others details are as follows.

Village	Nani kundal
Taluka	Babra
Range	Sarashiya
District	Amreli
Division	Gir East Division, Dhari
Block/ Patal, Compartment No.	189/1a pt
Area to be afforested	2.34 Ha.
Working circle	-

Total Compensatory area 2.34 Ha.

4. **Description of Area.**


Soil type	Muramy hard soil
Topography	Plain
Slope	medium
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 Non-Forest Area.
4. **Schedule of Plantation Programme:-**

(iii)	The Compensatory Afforestation on Non-Forest Area would be started by Deputy Conservator of Forest Gir East Forest Division, Dhari as early as possible after the proposal is formally approved.
(iv)	Compensatory Afforestation will be done in 2.34 ha. Area. The total afforestation cost will be about Rs. 1139924/- Gir East Forest Division, Dhari has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

Date:- 10/08/2022.

Place: - Dhari.


(R.N.Jhala)
Dy. Conservator of Forest
Gir (East) Forest Division, Dhari.

5. Technical Details:-

Technical details of Compensatory Afforestation are as Follows:

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Sr. No.	Details	Specifications																														
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on Non-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.)	<table><tr><td>Limado</td><td>251</td><td rowspan="7">Average minimum height will be Specification as per Gujarat forest department</td></tr><tr><td>Gugal</td><td>100</td></tr><tr><td>Bordi</td><td>190</td></tr><tr><td>Garmalo</td><td>190</td></tr><tr><td>Saral</td><td>190</td></tr><tr><td>Desi Baval</td><td>190</td></tr><tr><td>Total</td><td>1111</td></tr><tr><td></td><td></td><td><table><tr><td>Limado</td><td>65 c.m.</td></tr><tr><td>Gugal</td><td>50 c.m.</td></tr><tr><td>Bordi</td><td>65 c.m.</td></tr><tr><td>Garmalo</td><td>50 c.m.</td></tr><tr><td>Saral</td><td>65 c.m.</td></tr><tr><td>Desi Baval</td><td>100 c.m.</td></tr></table></td></tr></table>	Limado	251	Average minimum height will be Specification as per Gujarat forest department	Gugal	100	Bordi	190	Garmalo	190	Saral	190	Desi Baval	190	Total	1111			<table><tr><td>Limado</td><td>65 c.m.</td></tr><tr><td>Gugal</td><td>50 c.m.</td></tr><tr><td>Bordi</td><td>65 c.m.</td></tr><tr><td>Garmalo</td><td>50 c.m.</td></tr><tr><td>Saral</td><td>65 c.m.</td></tr><tr><td>Desi Baval</td><td>100 c.m.</td></tr></table>	Limado	65 c.m.	Gugal	50 c.m.	Bordi	65 c.m.	Garmalo	50 c.m.	Saral	65 c.m.	Desi Baval	100 c.m.
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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 c.m.s. 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	(iii) Pucca structure like Check dam, check wall, retaining wall (iv) 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 Jatropha, Agave plants. 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 Ipomea / Glarcidia 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, cutbacks, 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	(vii) A plantation register is to be maintained. (viii) Monitoring is to be done as per the following norms. Forester – 100%																														

Sr. No.	Details	Specifications
		RFO - 100% ACF - 20% DCF - 10% (ix) 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. (x) The collar girth is also to be reordered at the end of each year. (xi) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species. (xii) 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	Cut-back and promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

The Compensatory Afforestation scheme at the cost of Rs.1139924/- is technically and administrative approved by the undersigned.



(R.N.Jhala)

Date:- 20/08/2022.

Place: -Dhari.

Dy.Conservator of Forest
Gir (East) Forest Division, Dhari.

Details of year Wise Break-Up requirement of fund is as under

Daily wages Rate: R.s. 351.30

Year	Area ha	Admissible Rate / ha current daily Wage rate	Total Amount
0 Year	2.34	134078	313742
1st Year	2.34	86923	203400
2nd Year	2.34	60443	141437
3rd Year	2.34	47310	110705
4th Year	2.34	16446	38484
5th Year	2.34	8811	20618
6th Year	2.34	9361	21905
7th Year	2.34	9912	23194
8th Year	2.34	10462	24481
9th Year	2.34	11012	25768
10th Year	2.34	11198	26203
Total		405956	949937
20 % Supervision charge		81191	189987
Total		487147	1139924

Rs. Eleven Lakh thirty nine thousand nine hundred twenty four Only.

The User Agency has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (Including the price escalation and Supervision Charge)


(R.N.Jhala)

Date:-20/08/2022.

Place: -Dhari.

**Dy. Conservator of Forest
Gir (East) Forest Division, Dhari.**

Name of Project:-Proposal for diversion of 2.34 ha Reserved forest Land the Project of Widening and Strengthening of Khambhala to Kotdapitha -Thorkhana Road, (MDR) k.m.0/0 to 29/6 Ta.Babra.Dist.Amreliin Gujarat state.

Information of Compensatory Afforestation area GPS PointGir (East) Forest Division, Dhari.				
Sr. no	Name of Village & Taluka Dist	Compensatory Afforestation area in Ha.	Compensatory Afforestation S.No	GPS Point
1	Village- Nani kundal Taluka- Babra Dist -Amreli.	2.34	189/1a pt	1 21.910380 N 71.451460 E
				2 21.91.0151 N 71.451932 E
				3 21.909533 N 71.452232 E
				4 21.908136 N 71.452916 E
				5 21.908562 N 71.451660 E
				6 21.909460 N 71.451610 E
				7 21.909559 N 71.450335 E


(R.N.Jhala)

Date:- 20/08/2022.
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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 /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, fartillizer, insecticides, implements, rent of lands.Shade, etc. (including 10 % for casualty replacement)	1222	0.00	2071.45	2071.45
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	5067.00	263.00	5330.00
(c) Seedling cost for casualty replacement in one year old (20%)	222	1602.00	477.00	2079.00
(d) Seedling cost for casualty replacement in two year old (10%)	111	802.35	240.00	1042.35
Total		7471.35	3051.45	10522.80
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3807	0	3807
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 10.00	10994	0	10994
Total		14801	0	14801
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 10.00	0	11215	11215
Total		0	11215	11215
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (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.	10763	0	10763
Total		24290	26852	51142
4. Protection				
(a) Barbed wire fencing	L.S.	4221	40380	44601
(b) Seed sowing and planting of cuttings of Ipomea / Glaricidia along the fence		1256	540	1796
Total		5477	40920	46397
Sub Total of 0 year		52039	82038.45	134077.8
1st Year				
(a) Maintenance of nursery (April to June)	1222	3888	388	4276
(b) Transport of seedling for plantation	1111	2132	441	2573
(c) Planting with khamna of Min 1 m dia	1111	6554	0	6554
(d)Transport of seedilng for casualty replacement	111	227	50	277
(e) 3 weeding cum soil working	1111	25549	0	25549
(f) Support watering 5 times @ 3.25		16331	23435	39766
(g) Protection / tending operation		5286	0	5286

(h) Tending to natural vegetation		1321	0	1321
(i) Contingency		0	1321	1321
Total for 1st year		61288	25635	86923
2nd Year				
(a) 2 weeding & soil working		14190	0	14190
(b) 20 % Casually replacement, transport and planting	111+111	240	1188	1428
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/plant	0	13254	13254
(d) Support watering 3 times @ 3.25		10612	15232	25844
(e) Protection / tending operation		5727	0	5727
Total for 2nd year		30769	29674	60443
3 rd Year				
(a) 2 weeding & soil working		15281	0	15281
(b) 10 % Casually replacement, transport and planting	111	128	641	769
(c) Natural fertilizer, neem cake etc.	Rs.5/plant	0	14275	14275
(d) Support watering 1 times @ 3.25		3810	5467	9277
(e) Protection & maintenance of fencing / tending operation	L.S.	7708	0	7708
Total for 3rd year		26927	20383	47310
4 thYear				
(a) 1 weeding & soil working		8186	0	8186
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	8260	0	8260
Total for 4th year		16446	0	16446
5 thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8811	0	8811
Total for 5th year		8811	0	8811
6 thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9361	0	9361
Total for 6th year		9361	0	9361
7 thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9912	0	9912
Total for 7th year		9912	0	9912
8 thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10462	0	10462
Total for 8th year		10462	0	10462
9 thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11012	0	11012
Total for 9th year		11012	0	11012
10 thYear				
Protection & maintenance of fencing/ tending operation	L.S.	11198	0	11198
Total for 10th year		11198	0	11198
SUB TOTAL :		248225	157730	405955.8
The Cost of Supervision/subsequential silvicultural Operations	20%	49645	31546	81191
		297870	189277	487147

Note :-

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

Compensatory afforestation will be done in 1.00 ha. Area.

Total Cost Rs.472180.


(R.N.Jhala)

Dy. Conservator of Forest
Gir (East) Forest Division, Dhari.