

## **Annexure-19**

### **Compensatory Afforestation Scheme for double degraded area**

Diversion of 0.9885 Ha. Forest land for Girnar Wildlife sanctuary for construction of Datar Hill Stair road, Gujarat State.

Detailed scheme of Compensatory Afforestation for degraded area **2 ha.** to be carried out in lieu of **0.9885 ha.** of Reserved forest land to be diverted in Junagadh district.

#### **1. Details of degraded land.**

Village	Khageshri
Taluka	Kutiyana
Range	Kutiyana Range
District	Porbandar
Division	Junagadh
Block/ Patal, Compartment No.	589 pt.B
Areato be afforested	2 Ha.
Working circle	Inland Plantation

#### **2. Description of Area.**

Soil type	Black
Topography	Plain/Hilly
Slope	Gentle
Whether the area is bearing any root stock of Vegetation	Vegetation Mainly Prosopis

#### **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 Deputy Conservator of Forest Junagadh Forest Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in <b>2 ha.</b> area. The total afforestation cost will be about <b>Rs.10,66,500/-</b> Deputy Collector, Junagadh 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 340.20 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>Garmalo</td><td>150</td><td>65cm</td></tr> <tr> <td>Khijado</td><td>100</td><td>65cm</td></tr> <tr> <td>Desi Baval</td><td>150</td><td>65cm</td></tr> <tr> <td>Bordi</td><td>150</td><td>65cm</td></tr> <tr> <td>Harmo</td><td>100</td><td>65cm</td></tr> <tr> <td>Gundi</td><td>150</td><td>65cm</td></tr> <tr> <td>Charal</td><td>100</td><td>65cm</td></tr> <tr> <td>Arduso</td><td>100</td><td>90cm</td></tr> <tr> <td>Gorad</td><td>111</td><td>50cm</td></tr> <tr> <td><b>Total</b></td><td><b>1111</b></td><td></td></tr> </table>	Garmalo	150	65cm	Khijado	100	65cm	Desi Baval	150	65cm	Bordi	150	65cm	Harmo	100	65cm	Gundi	150	65cm	Charal	100	65cm	Arduso	100	90cm	Gorad	111	50cm	<b>Total</b>	<b>1111</b>	
Garmalo	150	65cm																														
Khijado	100	65cm																														
Desi Baval	150	65cm																														
Bordi	150	65cm																														
Harmo	100	65cm																														
Gundi	150	65cm																														
Charal	100	65cm																														
Arduso	100	90cm																														
Gorad	111	50cm																														
<b>Total</b>	<b>1111</b>																															
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	<p>(i) Pucca structure like Check dam, check wall, retaining wall</p> <p>(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 &amp; 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.</p>																														
h	Protection Trench	Barbed wire fencing, Seed sowing and planting of cuttings of Ipomea/Glarcidia along the fence																														
i	Silvicultural Operations	<p>1<sup>st</sup> year three weeding soil working, Support watering will be provided if needed.</p> <p>2<sup>nd</sup> year two weeding soil working.</p> <p>3<sup>rd</sup> year one weeding soil working.</p>																														
j	Maintenance	It is proposed to maintain the Plantation up to ten years.																														
k	Subsequent	Cleaning, cutbacks, thinning etc. (as per species specific requirement)																														

	silvicultural Operation	will be carried out at the age as per prescribed in the working plan.
l	Proposed monitoring mechanism	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% DCF – 10%</p> <p>(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.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance 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 4<sup>th</sup> 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	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.10,66,500/- is technically and administrative approved by the undersigned.

  
 (Dr. S. K. Bernwal)  
 Deputy Conservator of Forest  
 Junagadh Division, Junagadh

7/2/22



**Compensatory Afforestation Scheme for double degraded area under FCA proposal  
Proposal under Forest (Conservation) Act-1980 for Diversion of 0.9885 Ha. Forest land for Girnar  
Wildlife sanctuary for construction of Datar Hill Stair road, Gujarat State.**

**Daily wages Rs.340.20**

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
<b>0 year</b>				
Nursery	1222	0	2006	2006
(a) Cost of soil, ,manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)				
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4908	255	5163
(c ) Seedling cost for casuality replacement in one year old (20%)	222	1551	462	2013
(d) Seedling cost for casuality replacement in two year old (10%)	111	777	232	1009
<b>Total</b>		<b>7236</b>	<b>2955</b>	<b>10191</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers		3687	0	3687
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10647	0	10647
<b>Total</b>		<b>14334</b>	<b>0</b>	<b>14334</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10861	10861
<b>Total</b>		<b>0</b>	<b>10861</b>	<b>10861</b>
<b>3. SMC Works</b>				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	13100	26004	39104
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9970	0	9970
<b>Total</b>		<b>23070</b>	<b>26004</b>	<b>49074</b>
<b>4. Protection</b>				
(a) Barbed wire fencing	339 RMT.	8602	85934	94536

(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1216	523	1739
<b>Total</b>		<b>9818</b>	<b>86457</b>	<b>96275</b>
<b>Sub Total of 0 year</b>		<b>54458</b>	<b>126277</b>	<b>180735</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	1222	3765	376	4141
(b) Transport of seedling for plantation	1111	2065	427	2492
(c) Planting with khamna of Min 1 m dia	1111	6347	0	6347
(d) Transport of seedling for casualty replacement	111	220	48	268
(e) 3 weeding cum soil working	1111	24742	0	24742
(f) Support watering 5 times @ 3.25		15815	22694	38509
(g) Protection / tending operation		5119	0	5119
(h) Tending to natural vegetation		1279	0	1279
(i) Contingency		0	1280	1280
<b>Total for 1st year</b>		<b>59352</b>	<b>24825</b>	<b>84177</b>
<b>2nd Year</b>				
(a) 2 weeding & soil working		13741	0	13741
(b) 20 % Casually replcement, transport and planting	111+111	232	1150	1382
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0	12835	12835
(d ) Support watering 3 times @ 3.25		10277	14751	25028
(e) Protection / tending operation		5546	0	5546
<b>Total for 2nd year</b>		<b>29796</b>	<b>28736</b>	<b>58532</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		14798	0	14798
(b) 10 % Casually replcement, transport and planting	111	124	621	745
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13824	13824
(d ) Support watering 1 times @ 3.25		3690	5294	8984
(e) Protection & maintenance of fencing / tending operation	L.S.	7465	0	7465
<b>Total for 3rd year</b>		<b>26077</b>	<b>19739</b>	<b>45816</b>
<b>4thYear</b>				
(a) 1 weeding & soil working		7927	0	7927
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7999	0	7999
<b>Total for 4th year</b>		<b>15926</b>	<b>0</b>	<b>15926</b>
<b>5thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8533	0	8533
<b>Total for 5th year</b>		<b>8533</b>	<b>0</b>	<b>8533</b>




<b>6thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9065	0	9065
<b>Total for 6th year</b>		<b>9065</b>	<b>0</b>	<b>9065</b>
<b>7thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9599	0	9599
<b>Total for 7th year</b>		<b>9599</b>	<b>0</b>	<b>9599</b>
<b>8thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10130	0	10130
<b>Total for 8th year</b>		<b>10130</b>	<b>0</b>	<b>10130</b>
<b>9thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10664	0	10664
<b>Total for 9th year</b>		<b>10664</b>	<b>0</b>	<b>10664</b>
<b>10thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	11198	0	11198
<b>Total for 10th year</b>		<b>11198</b>	<b>0</b>	<b>11198</b>
<b>SUB TOTAL :</b>		<b>244798</b>	<b>199577</b>	<b>444375</b>
The Cost of Supervision/subsequential silvicultureal Operations	20%	48960	39915	88875
		<b>293758</b>	<b>239492</b>	<b>533250</b>

**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. : 5,33,250/-**

  
**(Dr. S. K. Bernal)**  
**Deputy Conservator of Forest**  
**Junagadh Division, Junagadh**

7/2/22

## Checklist No. 19-B


Rate structure of forestland of Village : Khageshri, Ta. Kutiyana, District : Porbandar  
2.00 ha. Afforestation as per Add.pri.C.C.F. land, Gujarat State, Gandhinagar's letter no.  
Campa/31/B/4769-4838/Dt. 27/11/2019.

Year	Rate / ha. at the daily wage Rs.324.50	Admissible Rate / ha current daily Wage rate 340.20	Admissible total amount as per daily Wages rate Rs. 340.20
70% Adv.Works	132034	126515	253030
30% Adv.Works	56586	54220	108440
<b>0 Year (70% + 30% Adv. Work Total)</b>	<b>188620</b>	<b>180735</b>	<b>361470</b>
1st Year	80292	84177	168354
2nd Year	55831	58532	117064
3rd Year	43701	45816	91632
4th Year	15191	15926	31852
5th Year	8139	8533	17066
6th Year	8647	9065	18130
7th Year	9156	9599	19198
8th Year	9663	10130	20260
9th Year	10172	10664	21328
10th Year	10681	11198	22396
<b>Total (0 Year to 10 Year)</b>	<b>440093</b>	<b>444375</b>	<b>888750</b>
20% Supervision charge	88019	88875	177750
<b>Total</b>	<b>528112</b>	<b>533250</b>	<b>1066500</b>

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 )

Place : Junagadh

Date : 7/02/2022

  
(Dr. S.K. Berwal)  
Dy. Conservator of Forests  
Junagadh Forest Division Junagadh

Technically Sanctioned for Rs.10,66,500/- in words Rs. Ten Lakh Sixty Six Thousand Five hundred only.

  
(Dr. S.K. Berwal)  
Dy. Conservator of Forests  
Junagadh Forest Division Junagadh

Details of year wise Break-up of requirement of fund is as under :- rate 340.20

year	ha.	rate / ha. at the daily wage per ha.	Total Amount
0 Year	2		
1st Year	2	180735	361470
2nd Year	2	84177	168354
3rd Year	2	58532	117064
4th Year	2	45816	91632
5th Year	2	15926	31852
6th Year	2	8533	17066
7th Year	2	9065	18130
8th Year	2	9599	19198
9th Year	2	10130	20260
10th Year	2	10664	21328
<b>Total</b>		11198	22396
		444375	888750
20% Supervision charge		88875	177750
<b>Total</b>		533250	1066500

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)

Place :Junagadh

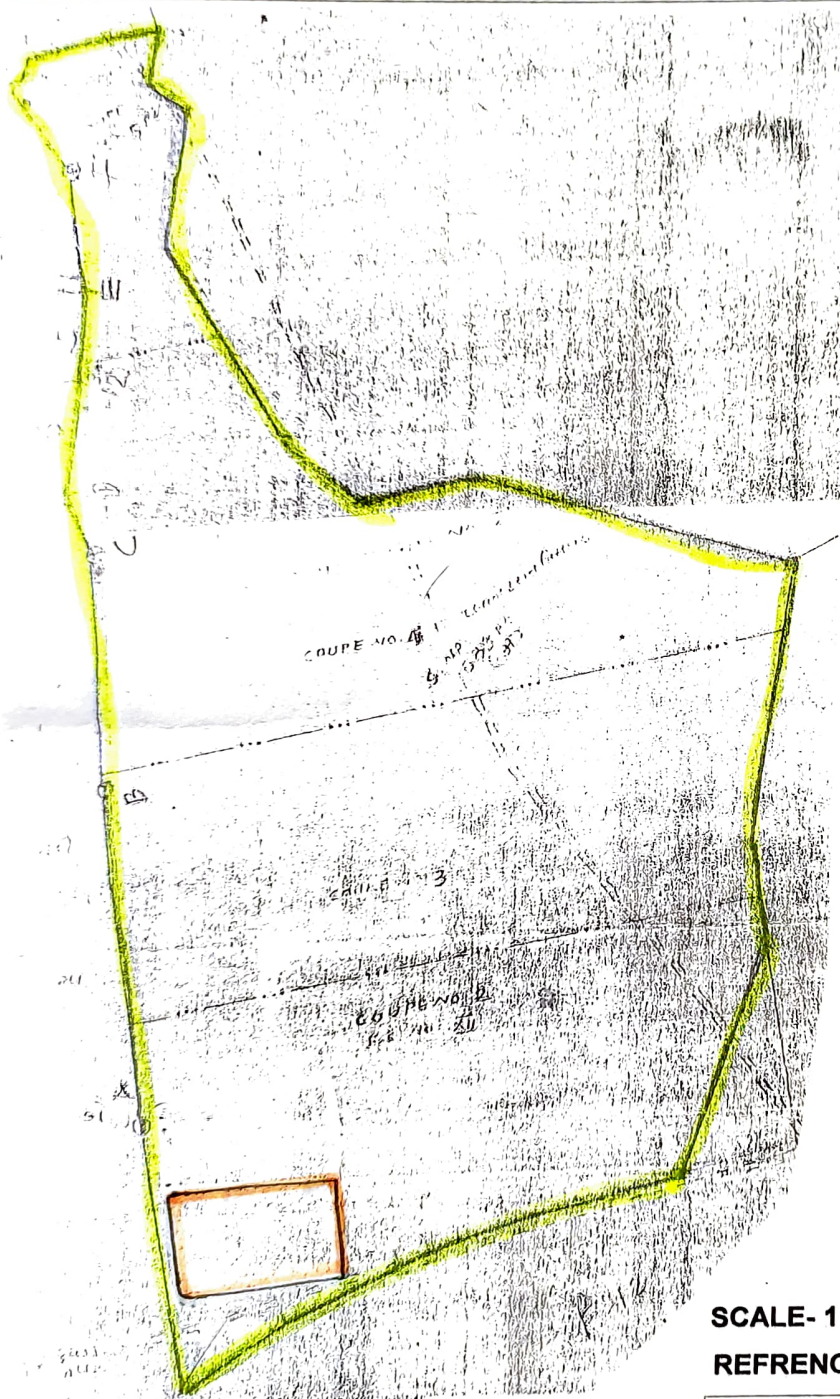
Date : 7/02/2022

(Dr. S.K. Beorwal)  
Dy. Conservator of Forests

Junagadh Forest Division Junagadh



LOCATION OF DEGRADED FOREST IDENTIFIED LAND FOR COMPENSATORY AFFORESTATION  
AGAINST THE PROPOSAL FOR DIVERSION OF 2.00 HA. OF FOREST LAND FOR  
CONSTRUCTING OF TRACTOR ROAD FROM WILLINGDON DAM TO SAKKARMAI AT GIRNAR  
HILL IN VILLAGE - KHAGESHRI SURVEY NO. 589/PT B, TALUKA-KUTIYANA, DIST-PORBANDAR,  
DIVISION- JUNAGADH, RANGE-KUTIYANA.



SCALE- 1 INCH=660 FT

REFERENCES

SURVEY NO.	AREA HA.	FOREST
589PT.B	160	

AREA TO BE TAKEN FOR COMPENSATORY AFFORESTATION AREA 2.00 HA.

(Dr. S. K. Borwal, IFS)  
Deputy Conservator of Forests  
Junagadh Division, Junagadh

7/2/22