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Annexure-19

Compensatory Afforestation Scheme for double degraded area

Detailed scheme for compensatory afforestation to be carried out in lieu of 1.200 Ha. Forest land to be diverted for construction of Jira-Hirava-Patala Road, Hirava Ta. Dhari Dist. Amreli in Gujarat State.

Detailed scheme of Compensatory Afforestation for non forest area 1.200 Ha. to be carried out in lieu of 1.200 ha. Forest land to be diverted in Amreli District.

2. 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	1.200 Ha.
Working circle	-

Total Compensatory area 1.200 Ha.

3. 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 1.200 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). |


(R.N.Jhala)

Date:- 20/08/2022.

Place: - Dhari.

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	(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%																															

Sr. No.	Details	Specifications
		DCF – 10% (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. (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. (vi) 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.

Date:-20/08/2022.

Place: -Dhari.



(R.N.Jhala)

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

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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	1.2		
1st Year	1.2	134078	160893
2nd Year	1.2	86923	104308
3rd Year	1.2	60443	72532
4th Year	1.2	47310	56772
5th Year	1.2	16446	19735
6th Year	1.2	8811	10573
7th Year	1.2	9361	11233
8th Year	1.2	9912	11894
9th Year	1.2	10462	12554
10th Year	1.2	11012	13214
Total		11198	13438
		405956	487147
20 % Supervision charge		81191	97429
Total		487147	584576

Rs. Five Lakh Eighty Four thousand five hundred Seventy six 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)

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

Date:- 20/08/2022.

Place:- Dhari.

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Name of Project:- Strengthening Construction of Jira-Hirava-Patala Road, K, 0/0 to 9/500 (working Section 4/630 to 6/230 Dist.Amreli Village Hirava.

Information of Compensatory Afforestation area GPS Point Gir (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.	1.200	189/1a pt	1	21.911221 N 71.450406 E
				2	21.911090 N 71.450561 E
				3	21.910380 N 71.451460 E
				4	21.909559 N 71.450335 E
				5	21.909737 N 71.449963 E
				6	21.909984 N 71.450412 E
				7	21.910149 N 71.450412 E
				8	21.910182 N 71.450133 E
				9	21.910692 N 71.450287 E


(R.N.Jhala)

Date:-20/08/2022.
Place: -Dhari.

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

Name of Project:- Strengthening Construction of Jira-Hirava-Patala Road, K, 0/0 to 9/500 (working Section 4/630 to 6/230 Dist.Amreli Village Hirava.

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Spacemnts = 3 m x 3 m

Daily wages Rs.351.30

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

1

Qty.

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)

(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.

(c) Seedling cost for casualty replacement in one year old (20%)

(d) Seedling cost for casualty replacement in two year old (10%)

Total

2. Area Development (Land Preparation)

(a) Survey, cutback and promotion of root suckers

(b) Alignment and digging of pits 0.45 X 0.45 X 0.45

Total

(a) Natural fertilizer (Neem cake/ Castor cake)

Total

3. SMC Works

(a) Check wall/ retaining wall /checkdem (all pucca only)

(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)

Total

4. Protection

(a) Barbed wire fencing

(b) Seed sowing and planting of cuttings of Ipomea / Glaricidia along the fence

Total

Sub Total of 0 year

1st Year

(a) Maintenance of nursery (April to June)

(b) Transport of seedling for plantation

(c) Planting with khamna of Min 1 m dia

(d) Transport of seedling for casualty replacement

(e) 3 weeding cum soil working

(f) Support watering 5 times @ 3.25

(g) Protection / tending operation

(h) Tending to natural vegetation

(i) Contingency

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Total for 1st year		61288	25635	86923
2nd Year				
(a) 2 weeding & soil working		14190	0	14190
(b) 20 % Casually replcement, 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 replcement, 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/subsequent silviculture Operations	20%	49645	31546	81191
TOTA		297870	189277	487147

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.472180.



(R.N.Jhala)

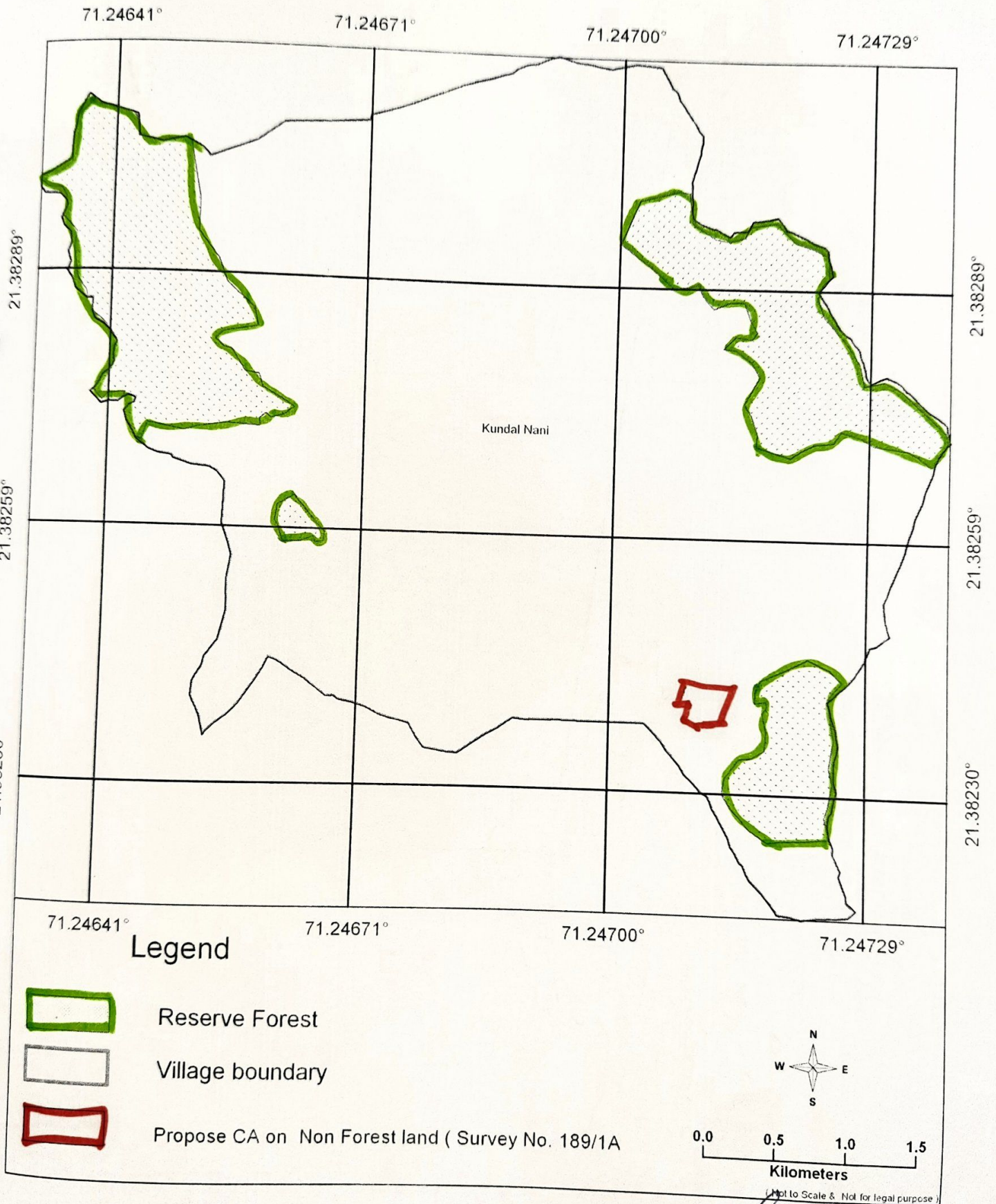
Dy. Conservator of Forest
Gir (East) Forest Division, Dhari.



Dy. Conservator Of Forests
Gir (East) Forest Division
Dhari

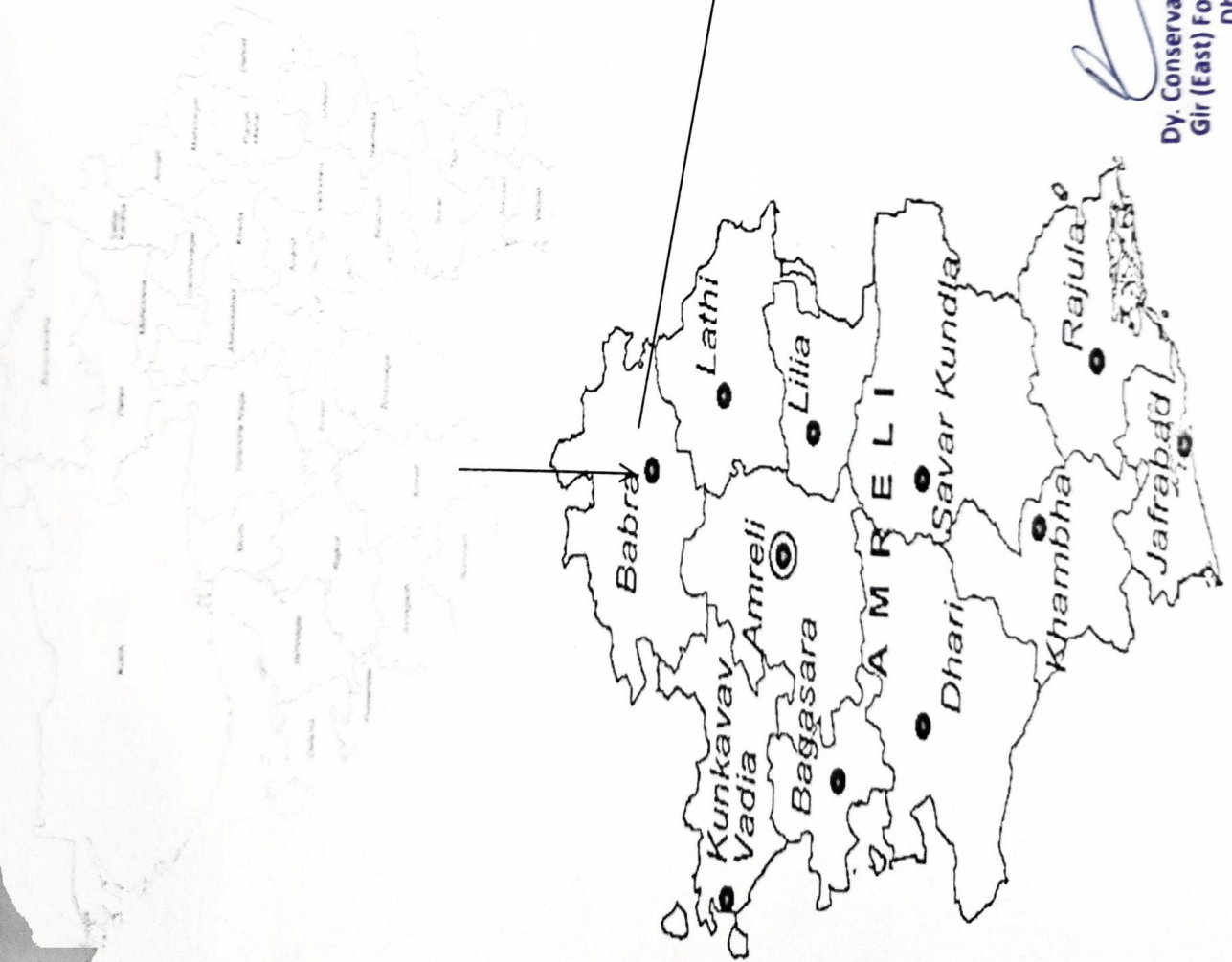
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CA Map of Nani Kundal village,
Range : Sarasiya, Taluka : Babra, Dist: Amreli



Dy. Conservator Of Forests
Gir (East) Forest Division.
Dhari

Index map of Gujarat State Village- Nani Kundal, Taluka-Babara, District- Amreli.



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