

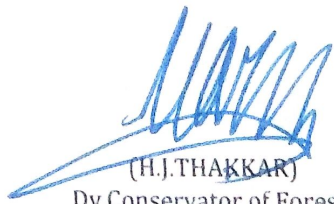
ANNEXURE-18

Location map of Degraded area Non Forest land identified for 157.00 Ha. Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhrej-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km)

Village: **Demati Ta-Poshina, Dist Sabarkantha**
Forest Division: **Sabarkantha**. Range: RDF Poshina
Block No./Compartment No./Survey No. 12
Compensatory Afforestation **Area: Ha.157.00**
Compen 3

ATTECHED HERE WITH

☐ Area to be taken for Compensatory Afforestation.


(H.J. THAKKAR)
Dy.Conservator of Forests
Sabarkantha Himatnagar.

Legend

Village: Demati

Range: Vadali
 Wc: REWC
 FS No: 40
 Coupe No: 3.4
 CA Plantation Area: 157.00 Ha

Devendar parmar

24.308614° 73.129705°

24.307687° 73.135814°

Demati 24.304238° 73.118819°

24.295943° 73.119262° Demiti

Demati rojgadha primary school

24.289477° 73.130902°

Google Earth

Image © 2023 Airbus



1 km

(H.J. THAKKAR)
 Dy, Conservator of Forest
 Sabarkantha, Himatnagar

Annexure-19

Compensatory Afforestation Scheme for double degraded area

Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhrej-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km) (C.A Area-157.00 Ha.)

Detailed scheme of Compensatory Afforestation for double degraded area 157.00 ha. to be carried out in lieu of 78.1014 Ha. of forest land to be diverted in sabarkantha district.

1. Details of degraded land.

| | |
|--|--------------------|
| Village | Demati |
| Taluka | Poshina |
| Range | RDF Poshina |
| District | Sabarkantha |
| Division | Sabarkantha Normal |
| Block/ Patal, Compartment No./Survey no. | 12 |
| Areato be afforested | 157.00 Ha. |
| Working circle | REWC |
| Coupe No | 3/4 |
| Felling Series | LX |

2. Description of Area.

| | |
|--|-----------------|
| Soil type | Black & Shoney |
| Topography | Plain |
| Slope | Medium & Gentle |
| Whether the area is bearing any root stock of Vegetation | Yes |

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for double Degraded Area.

4. Schedule of Plantation Programme:-

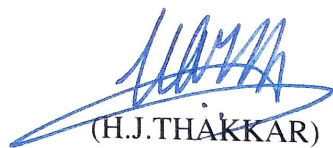
| | |
|------|--|
| (i) | The Compensatory Afforestation on double degraded area would be started by Dy.Conservator of Forest Sabarkantha Division Himmatnagar as early as possible after the proposal is formally approved. |
| (ii) | Compensatory Afforestation will be done in 157.00 Ha.area. The total afforestation cost will be about Rs.109516354/- Executive Engineer Road and Building Division Surendranagar 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 on degraded Forest Areas. The prevailing wage rate is 462.00 per day. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | Spacement | 3 X 3 mtr., 1111 plants per ha. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c | Species to be planted (No. of plants per ha.) | <table border="1"> <tr> <td>Khair</td><td>250</td><td rowspan="12">Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Kanji</td><td>150</td></tr> <tr> <td>Kadaya</td><td>101</td></tr> <tr> <td>Salai</td><td>70</td></tr> <tr> <td>Gunda</td><td>70</td></tr> <tr> <td>Bael</td><td>100</td></tr> <tr> <td>Bamboo</td><td>70</td></tr> <tr> <td>Ardusa</td><td>75</td></tr> <tr> <td>Ragat Royado</td><td>100</td></tr> <tr> <td>Garmalo</td><td>75</td></tr> <tr> <td>kakhro,Dudh Kadi</td><td>50</td></tr> <tr> <td>Total</td><td>1111</td></tr> </table> | Khair | 250 | Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species. | Kanji | 150 | Kadaya | 101 | Salai | 70 | Gunda | 70 | Bael | 100 | Bamboo | 70 | Ardusa | 75 | Ragat Royado | 100 | Garmalo | 75 | kakhro,Dudh Kadi | 50 | Total | 1111 |
| Khair | 250 | Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kanji | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kadaya | 101 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salai | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gunda | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bael | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bamboo | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ardusa | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ragat Royado | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Garmalo | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| kakhro,Dudh Kadi | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 1111 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d | Nursery Technique | Nine months old polypot raised plants will be planted at the on set 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 & Nala Banding,small Chekdem,Van Talavadi 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>1st year three weeding soil working, Support watering will be provided if needed.</p> <p>2nd year two weeding soil working.</p> <p>3rd year one weeding soil working.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|---|------------------------------------|---|
| 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 | <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 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 suckers. |
| n | Silviculture & other activities | Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land. |


(H.J.THAKKAR)
Dy. Conservator of Forest
Sabarkantha, Himatnagar

Detailed scheme of Compensatory Afforestation to be carried out in lieu 78.1014 Ha. Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhreji-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km)

| Name of works | Model No. | Area | | Rate per Hac. | Amount | | | | | | | | | | | Total Rs. | | |
|---|-----------|--------|------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|
| | | H.A. | Hac. | | 0 Year | 1st Year | 2nd Year | 3rd Year | 4th Year | 5th Year | 6th Year | 7th Year | 8th Year | 9th Year | 10th Year | | 20% | |
| 0 Year 70 % Adv.work. 1st Year Operation. | Model-3 | 157.00 | | 223263 | 35052291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7010458 | 42062749 |
| 1st Year 30 % Advance work Current year plantation | | | | 114319 | 0 | 17948083 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3589617 | 21537700 |
| 2nd Year operation Maintenance of one year old plantation. | | | | 79492 | 0 | 0 | 12480244 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2496049 | 14976293 |
| 3rd Year operation Maintenance of 2 years old plantation. | | | | 62221 | 0 | 0 | 0 | 9768697 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1953739 | 11722436 |
| 4th year operation Maint.of 3 years old plantation. | | | | 21626 | 0 | 0 | 0 | 0 | 3395282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 679056 | 4074338 |
| 5th year operation Maint.of 4 years old plantation. | | | | 11586 | 0 | 0 | 0 | 0 | 0 | 1819002 | 0 | 0 | 0 | 0 | 0 | 0 | 363800 | 2182802 |
| 6th year operation Maint.of 5 years old plantation. | | | | 12310 | 0 | 0 | 0 | 0 | 0 | 0 | 1932670 | 0 | 0 | 0 | 0 | 0 | 386534 | 2319204 |
| 7th year operation Maint.Of 6 years old plantation. | | | | 13034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2046338 | 0 | 0 | 0 | 0 | 409268 | 2455606 |
| 8th year operation Maint.of 7 years old plantation. | | | | 13758 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2160006 | 0 | 0 | 432001 | 2592007 | |
| 9th year operation Maint.of 8 years old plantation. | | | | 14482 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2273674 | 0 | 454735 | 2728409 | |
| 10th year operation Maint.of 9 years old plantation. | | | | 15206 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2387342 | 477468 | 2864810 | |
| Total | | | | 581297 | 35052291 | 17948083 | 12480244 | 9768697 | 3395282 | 1819002 | 1932670 | 2046338 | 2160006 | 2273674 | 2387342 | 18252725 | 109516354 | |


Daily wages Rs.462.00

(H.J. THAKKAR)
Dy. Conservator of Forests
Sabarkantha Himatnagar

Detailed scheme of Compensatory Afforestation to be carried out in lieu 78.1014 Ha Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhrej-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km)

Sabarkantha Normal Division, Himatnagar

| Sr.No. | Name of Village | Taluka | District | Forest Survey No. | Total area. (Ha.) | Area Carried out of C.A. ha. | C.A. Area to be carried out for this proposal ha. | Balance area for in ha. |
|--------|-----------------|---------|-------------|-------------------|-------------------|------------------------------|---|-------------------------|
| 1 | Demati | Poshina | Sabarkantha | 12 | 1396.86 | 30.00 | 157.00 | 1209.86 |


(H.J. THAKKAR)
Dy. Conservator of Forest
Sabarkantha, Himatnagar

Model No - 3

Compensatory Afforestation Scheme for double degraded area under FCA Proposal

Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhrej-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km) (C.A Area-157.00 Ha.)

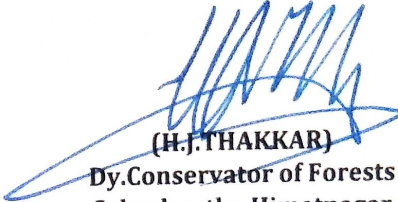
| | | | | |
|--|-------------|-----------------------|----------|--------|
| Spacemnts = 3 m x 3 m | | Daily wages Rs 462.00 | | |
| 1111 seedling / ha | | | | |
| 1st year replacement 10 % = 111 seedling / ha | | | | |
| 2nd year replacement 20 % = 111+111 seedling / ha | | | | |
| 3rd year replacement 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. | 1222 | 0 | 2725 | 2725 |
| (b) labour : Preparation of beds, filling and arranging of | 1222 | 6665 | 345 | 7010 |
| (c) Seedling cost for casualty replacement in one year old (20%) | 222 | 2105 | 629 | 2734 |
| (d) Seedling cost for casualty replacement in two year old (10%) | 111 | 1054 | 314 | 1368 |
| Total | | 9824 | 4013 | 13837 |
| 2. Area Development (Land Preparation) | | | | |
| (a) Survey, cutback and promotion of root suckers | | 5007 | 0 | 5007 |
| (b) Aligment and digging of pits 0.45 X 0.45 X 0.45 | 1111 @ 6.00 | 14461 | 0 | 14461 |
| Total | | 19468 | 0 | 19468 |
| (a) Natural fertilizer (Neem cake/ Castor cake) | 1111 @ 5.00 | 0 | 14750 | 14750 |
| Total | | 0 | 14750 | 14750 |
| 3. SMC Works | | | | |
| (a) Check wall/ retaining wall /checkdem (all pucca only) | L.S. | 17789 | 35313 | 53102 |
| (b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench) | 600 rmt. | 13541 | 0 | 13541 |
| Total | | 31330 | 35313 | 66643 |
| 4. Protection | | | | |
| (a) Barbed wire fencing (par Ha Rmt) | 100 | 47793 | 58413 | 106206 |
| (b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the | | 1651 | 708 | 2359 |
| Total | | 49444 | 59121 | 108565 |
| Total for 0 year | | 110066 | 113197 | 223263 |
| 1st Year | | | | |
| (a) Maintenance of nursery (April to June) | 1222 | 5111 | 511 | 5622 |
| (b) Transport of seedling for plantation | 1111 | 2804 | 580 | 3384 |
| (c) Planting with khamna of Min 1 m dia | 1111 | 8621 | 0 | 8621 |

| | | | | |
|---|-------------|--------------|--------------|---------------|
| (d) Transport & planting of seedling for casualty replacement | 111 | 300 | 66 | 366 |
| (e) 3 weeding cum soil working | 1111 | 33600 | 0 | 33600 |
| (f) Support watering 5 times @ 3.25 | | 21478 | 30820 | 52298 |
| (g) Protection / tending operation | | 6952 | 0 | 6952 |
| (h) Tending to natural vegetation | | 1738 | 0 | 1738 |
| (i) Contingency | | 0 | 1738 | 1738 |
| Total for 1st year | | 80604 | 33715 | 114319 |
| 2nd Year | | | | |
| (a) 2 weeding & soil working | | 18662 | 0 | 18662 |
| (b) 20 % Casually replacement, transport and planting | 111+111 | 313 | 1563 | 1876 |
| (c) Natural fertilizer (neem cake / castor cake) etc. | Rs.5/ plant | 0 | 17432 | 17432 |
| (d) Support watering 3 times @ 3.25 | | 13958 | 20033 | 33991 |
| (e) Protection / tending operation | | 7531 | 0 | 7531 |
| Total for 2nd year | | 40464 | 39028 | 79492 |
| 3rd Year | | | | |
| (a) 2 weeding & soil working | | 20097 | 0 | 20097 |
| (b) 10 % Casually replacement, transport and planting | 111 | 169 | 841 | 1010 |
| (b) Natural fertilizer, neem cake etc. | Rs.5/ plant | 0 | 18773 | 18773 |
| (c) Support watering 1 times @ 3.25 | | 5012 | 7192 | 12204 |
| (d) Protection & maintenance of fencing / tending operation | L.S. | 10137 | 0 | 10137 |
| Total for 3rd year | | 35415 | 26806 | 62221 |
| 4thYear | | | | |
| (a) 1 weeding & soil working | | 10764 | 0 | 10764 |
| (b) Protection & Maintenance of fencing/ Tending operation | L.S. | 10862 | 0 | 10862 |
| Total for 4th year | | 21626 | 0 | 21626 |
| 5thYear | | | | |
| Protection & maintenance of fencing/ tending operation | L.S. | 11586 | 0 | 11586 |
| Total for 5th year | | 11586 | 0 | 11586 |
| 6thYear | | | | |
| Protection & maintenance of fencing/ tending operation | L.S. | 12310 | 0 | 12310 |
| Total for 6th year | | 12310 | 0 | 12310 |
| 7thYear | | | | |
| Protection & maintenance of fencing/ tending operation | L.S. | 13034 | 0 | 13034 |
| Total for 7th year | | 13034 | 0 | 13034 |
| 8thYear | | | | |
| Protection & maintenance of fencing/ tending operation | L.S. | 13758 | 0 | 13758 |
| Total for 8th year | | 13758 | 0 | 13758 |
| 9thYear | | | | |
| Protection & maintenance of fencing/ tending operation | L.S. | 14482 | 0 | 14482 |
| Total for 9th year | | 14482 | 0 | 14482 |
| 10thYear | | | | |

| | | | | |
|--|------|---------------|---------------|---------------|
| Protection & maintenance of fencing/ tending operation | L.S. | 15206 | 0 | 15206 |
| Total for 10th year | | 15206 | 0 | 15206 |
| SubTotal | | 368551 | 212746 | 581297 |
| Total cost of supervision/subsequent silvicultural operations | 20% | 73710 | 42549 | 116259 |
| Grand Total | | 442261 | 255295 | 697556 |

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of ipomea//Glaricidia along the fencing towards outer side


(H.J. THAKKAR)
 Dy. Conservator of Forests
 Sabarkantha Himatnagar

ANNEXURE-20

CERTIFICATE

This is to certify that the compensatory afforestation scheme attached herewith for 157.00 Ha. Village Demati Taluka Poshina, Dist. Sabarkantha Survey No.12 in lieu 78.1014 Ha. Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhrej-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km) District. with the guidelines issued vide Principal Chief Conservator of Forest Gujarat State Gandhinagar Letter No.Campa/31/B/4460-4530 Date: 18.11.2019 and same is here by approved technically.

Place: Gandhinagar
Date: / /2023

Chief Conservator of Forests
Gandhinagar Circle,
Gandhinagar

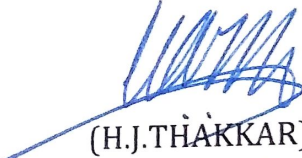
ANNEXURE-21

CERTIFICATE

This is certified that 157.00 Ha. land of S.No.12 of Village Demati Taluka Poshina, Dist. Sabarkantha Proposal for Seeking prior approval for acquiring forest land for Diversion of 78.1014 Ha. Protected Forest land for four laning of existing section of Dudhrej-Vana-Malvan Road SH-19 in Surendranagar District. (4/00 Km to 43/00 Km) in Gujarat Location map in Sabarkantha in the State of Gujarat of is identified and found suitable for afforestation.

Himatnagar.

Date: 16/10/2023


(H.J. THAKKAR)
Dy.Conservator of Forests,
Sabarkantha Himatnagar.