

**Compensary Afforestation Scheme for double degraded area**

Diversion of 5.70 ha. PF land for construction of Road from Anuvratdhar Junction To Jamnaba Park Junction (Km 0/0 to Km. 3/0) in Surat Municipal Corporation Area in Surat district.

Detailed scheme of Compensatory Afforestation for degraded area 12.00 ha. to be carried out in lieu of 5.70 ha. of Protected forest land to be diverted in Surat district.

**1. Details of degraded land.**

|                               |            |
|-------------------------------|------------|
| Village                       | Kevdi Kund |
| Taluka                        | Mangrol    |
| Range                         | Vankal     |
| District                      | Surat      |
| Division                      | Surat      |
| Block/ Patal, Compartment No. | 576        |
| Area to be afforested         | 12.00 Ha.  |
| Working circle                | Plantation |

**2. Description of Area.**

|  |                 |
|--|-----------------|
| Soil type  | Black & Starey  |
| 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 Degraded Area.

**4. Schedule of Plantation Programme:-**

|  |
|--|
| (i) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Surat Division as early as possible after the proposal is formally approved.  |
| (ii) Compensatory Afforestation will be done in 12.00 ha. area. The total afforestation cost will be about Rs.65,58,000/- The Executive Engineer, Road Development Department, Surat Municipal Corporation. 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 307.90 per day.   |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| b   | Spacement  | 3 X 3 mtr., 1111 plants per ha.   |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| c   | Species to be planted<br>(No. of plants per ha.) | <table> <tr> <td>Khair</td><td>200</td><td>70cm</td></tr> <tr> <td>Teak</td><td>300</td><td>90cm</td></tr> <tr> <td>Bamboo</td><td>100</td><td>65cm</td></tr> <tr> <td>Bahedo, Herde, Aritha</td><td>100</td><td>90cm</td></tr> <tr> <td>Haldu, Sadad, Arjun Sadad</td><td>100</td><td>90cm</td></tr> <tr> <td>Bhilamo, Kadayo, Sadad, Tandol etc.</td><td>100</td><td>75cm</td></tr> <tr> <td>Albizzia, Ficus, Jamun, Anjan, Neem, etc.</td><td>100</td><td>75cm</td></tr> <tr> <td>Bordi, Karanj, Khakhro &amp; others</td><td>111</td><td>75cm</td></tr> <tr> <td><b>Total</b></td><td><b>1111</b></td><td></td></tr> </table> | Khair | 200 | 70cm | Teak | 300 | 90cm | Bamboo | 100 | 65cm | Bahedo, Herde, Aritha | 100 | 90cm | Haldu, Sadad, Arjun Sadad | 100 | 90cm | Bhilamo, Kadayo, Sadad, Tandol etc. | 100 | 75cm | Albizzia, Ficus, Jamun, Anjan, Neem, etc. | 100 | 75cm | Bordi, Karanj, Khakhro & others | 111 | 75cm | <b>Total</b> | <b>1111</b> |  |
| Khair                                     | 200  | 70cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Teak                                      | 300  | 90cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Bamboo                                    | 100  | 65cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Bahedo, Herde, Aritha                     | 100  | 90cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Haldu, Sadad, Arjun Sadad                 | 100  | 90cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Bhilamo, Kadayo, Sadad, Tandol etc.       | 100  | 75cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Albizzia, Ficus, Jamun, Anjan, Neem, etc. | 100  | 75cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| Bordi, Karanj, Khakhro & others           | 111  | 75cm  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |
| <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  |       |     |      |      |     |      |        |     |      |                       |     |      |                           |     |      |                                     |     |      |   |     |      |                                 |     |      |              |             |  |

## Model No - 3

### Annexure-4 (1)

**Compensatory Afforestation Scheme for double degradation areas & Non Forest**

**Daily wages Rs.307.90**

| Spacemnts = 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>  |                |              |              |              |
| <b>Nursery</b>   |                |              |              |              |
| (a) Cost of soil, ,manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement) | 1222           | 0            | 1815         | 1815         |
| (b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.                                    | 1222           | 4442         | 230          | 4672         |
| (c ) Seedling cost for casualty replacement in one year old (20%)  | 222            | 1404         | 419          | 1823         |
| (d) Seedling cost for casualty replacement in two year old (10%)   | 111            | 703          | 209          | 912          |
| <b>Total</b>   |                | <b>6549</b>  | <b>2673</b>  | <b>9222</b>  |
| <b>2. Area Development ( Land Preparation )</b>  |                |              |              |              |
| (a) Survey, cutback and promotion of root suckers  |                | 3337         | 0            | 3337         |
| (b) Aligment and digging of pits 0.45 X 0.45 X 0.45  | 1111@<br>6.00  | 9637         | 0            | 9637         |
| <b>Total</b>   |                | <b>12974</b> | <b>0</b>     | <b>12974</b> |
| (a) Natural fertilizer (Neem cake/ Castor cake)  | 1111 @<br>5.00 | 0            | 9830         | 9830         |
| <b>Total</b>   |                | <b>0</b>     | <b>9830</b>  | <b>9830</b>  |
| <b>3. SMC Works</b>  |                |              |              |              |
| (a) Check wall/ retaining wall /checkdem (all pucca only)  | L.S.           | 11856        | 23535        | 35391        |
| (b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)  | 600 rmt.       | 9024         | 0            | 9024         |
| <b>Total</b>   |                | <b>20880</b> | <b>23535</b> | <b>44415</b> |

|   |             |               |              |               |
|---|-------------|---------------|--------------|---------------|
| <b>4. Protection</b>  |             |               |              |               |
| (a) Barbed wire fencing   | L.S.        | 3539          | 35391        | 38930         |
| (b) Seed sowing and planting of cuttings of Ipomea/<br>Glarcidia<br>along the fence |             | 1101          | 473          | 1574          |
| <b>Total</b>  |             | <b>4640</b>   | <b>35864</b> | <b>40504</b>  |
| <b>Sub Total of 0 year</b>  |             | <b>45043</b>  | <b>71901</b> | <b>116944</b> |
| <b>1st Year</b>   |             |               |              |               |
| (a) Maintenance of nursery (April to June)  | 1222        | 3407          | 340          | 3747          |
| (b) Transport of seedling for plantation  | 1111        | 18444         | 386          | 18830         |
| (c) Planting with khamna of Min 1 m dia   | 1111        | 5744          | 0            | 5744          |
| (d) Transport of seedling for casualty replacement                                  | 111         | 199           | 44           | 243           |
| (e) 3 weeding cum soil working  | 1111        | 23393         | 0            | 23393         |
| (f) Support watering 5 times @ 3.25   |             | 14314         | 20539        | 34853         |
| (g) Protection / tending operation  |             | 4612          | 0            | 4612          |
| (h) Tending to natural vegetation   |             | 1158          | 0            | 1158          |
| (i) Contingency   |             | 0             | 1158         | 1158          |
| (j) Barbed Wire fencing (400/- Per Meter)   | 205 RM      | 32000         | 48000        | 80000         |
| <b>Total for 1st year</b>   |             | <b>103271</b> | <b>70467</b> | <b>173738</b> |
| <b>2nd Year</b>   |             |               |              |               |
| (a) 2 weeding & soil working  |             | 12567         | 0            | 12567         |
| (b) 20 % Casually replcement, transport and planting                                | 111+111     | 209           | 1041         | 1250          |
| (c) Natural fertilizer (neem cake / castor cake ) etc.                              | Rs.5/ plant | 0             | 11617        | 11617         |
| (d ) Support watering 3 times @ 3.25  |             | 9301          | 13351        | 22652         |
| (e) Protection / tending operation  |             | 5019          | 0            | 5019          |
| <b>Total for 2nd year</b>   |             | <b>27096</b>  | <b>26009</b> | <b>53105</b>  |
| <b>3rd Year</b>   |             |               |              |               |
| (a) 2 weeding & soil working  |             | 13264         | 0            | 13264         |
| (b) 10 % Casually replcement, transport and planting                                | 111         | 112           | 561          | 673           |
| (c) Natural fertilizer, neem cake etc.  | Rs.5/ plant | 0             | 12735        | 12735         |
| (d ) Support watering 1 times @ 3.25  |             | 3340          | 4792         | 8132          |
| (e) Protection & maintenance of fencing / tending<br>operation                      | L.S.        | 8673          | 0            | 8673          |
| <b>Total for 3rd year</b>   |             | <b>25389</b>  | <b>18088</b> | <b>43477</b>  |

|   |      |               |               |                 |
|---|------|---------------|---------------|-----------------|
| <b>4thYear</b>  |      |               |               |                 |
| (a) 1 weeding & soil working                                    |      | 7325          | 0             | 7325            |
| (b) Protection & Maintenance of fencing/ Tending operation      | L.S. | 7239          | 0             | 7239            |
| <b>Total for 4th year</b>                                       |      | <b>14564</b>  | <b>0</b>      | <b>14564</b>    |
| <b>5thYear</b>  |      |               |               |                 |
| Protection & maintenance of fencing/ tending operation          | L.S. | 7722          | 0             | 7722            |
| <b>Total for 5th year</b>                                       |      | <b>7722</b>   | <b>0</b>      | <b>7722</b>     |
| <b>6thYear</b>  |      |               |               |                 |
| Protection & maintenance of fencing/ tending operation          | L.S. | 8204          | 0             | 8204            |
| <b>Total for 6th year</b>                                       |      | <b>8204</b>   | <b>0</b>      | <b>8204</b>     |
| <b>7thYear</b>  |      |               |               |                 |
| Protection & maintenance of fencing/ tending operation          | L.S. | 8687          | 0             | 8687            |
| <b>Total for 7th year</b>                                       |      | <b>8687</b>   | <b>0</b>      | <b>8687</b>     |
| <b>8thYear</b>  |      |               |               |                 |
| Protection & maintenance of fencing/ tending operation          | L.S. | 9169          | 0             | 9169            |
| <b>Total for 8th year</b>                                       |      | <b>9169</b>   | <b>0</b>      | <b>9169</b>     |
| <b>9thYear</b>  |      |               |               |                 |
| Protection & maintenance of fencing/ tending operation          | L.S. | 9652          | 0             | 9652            |
| <b>Total for 9th year</b>                                       |      | <b>9652</b>   | <b>0</b>      | <b>9652</b>     |
| <b>10thYear</b>   |      |               |               |                 |
| Protection & maintenance of fencing/ tending operation          | L.S. | 10135         | 0             | 10135           |
| <b>Total for 10th year</b>                                      |      | <b>10135</b>  | <b>0</b>      | <b>10135</b>    |
| <b>SUB TOTAL :</b>  |      | <b>291379</b> | <b>186465</b> | <b>455397</b>   |
| The Cost of Supervision/subsequential silvicultureal Operations | 20%  | 58276         | 37293         | 91079           |
|   |      | <b>349655</b> | <b>223758</b> | <b>546476</b>   |
|   |      | <b>SAY</b>    |               | <b>5,46,500</b> |

**Note :-**

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

Compensatory afforestation will be done in 12.00 ha. Area.  
The Total afforestation cost will be Rs. 65,58,000/-

**Total Cost Rs. :65,58,000/-**

|   |                                    |   |
|---|------------------------------------|---|
| i | Silvicultural Operations           | 1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed.<br>2 <sup>nd</sup> year two weeding soil working.<br>3 <sup>rd</sup> 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.<br>(ii) Monitoring is to be done as per the following norms.<br>Forester – 100%<br>RFO – 100%<br>ACF – 20%<br>DCF – 10%<br>(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.<br>(iv) The collar girth is also to be reordered at the end of each year.<br>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.<br>(vi) Bamboo would be of the harvestable size by the end of 4 <sup>th</sup> year.<br>(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 degraded forest land.   |

  
 Dy. Conservator of Forest  
 Surat

The Compensatory Afforestation scheme at the cost of **Rs.65,58,000/-** is technically and administrative approved by the undersigned.

  
 Dy. Conservator of Forest  
 Surat

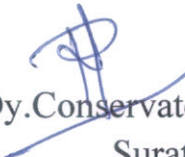
## INDEX SR.NO.13

**Statement showing the details of degraded forest area identified for the Compensation for afforestation.**

| Sr. No | Dist. | Taluka  | Village    | Compt .No | Total area ha. | Area in degraded forest in other scheme ha. | Area under this scheme ha. | Balance area. ha. |
|--------|-------|---------|------------|-----------|----------------|---|----------------------------|-------------------|
| 1      | 2     | 3       | 4          | 5         | 6              | 7   | 8                          | 9                 |
| 1      | Surat | Mangrol | Kevdi Kund | 576       | 158.11         | 0.0   | 12.00                      | 146.11            |
|        |       |         |            |           |                |   |                            |                   |

Date: 22/07/2020

Place: SURAT

  
Dy. Conservator of Forests  
Surat.



**CERTIFICATE**

This is to Certify that the Compensatory Afforestation Scheme of 12.00 ha. (Double area of diverted area 5.70 ha ) received from the Executive Engineer, Road Development Department, Surat Municipal Corporation Surat. has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

The Scheme in Question has been checked and found correct as per the prevailing wage rate structure and approved Model-3 Models of plantation.

The Compensatory Afforestation has to be carried out in **R.F.Compt. No.576 Pt. of Village Kevdi Kund, Taluka Mangrol, Range : Vankal of Surat division at the cost of Rs. 65,58,000/- /- (In words sixty five lakh fifty eight Thousand rupees Only).**

There of the Compensatory afforestation Scheme in question here by technically approved by the undersigned.

Date: 12 /07/2020

Place: SURAT

  
Dy.Conservator of Forests  
Surat.



LAND SUITABILITY CERTIFICATE

This is to certify that I have visited 158.11 ha. area of degraded RF forest (for taking up 12.00 Ha. Of CA), of block No - / Comptt. No/ Survey No - 576 of Village- Kevdi Kund, Taluka- Mangrol, District Surat on dt- which has been identified for Compensatory afforestation as shown in the location map attached with the Compensatory Afforestation Scheme against the proposal for diversion of 5.70 ha. Of forest land and the said area is Suitable for Compensatory afforestation. It is also certified that the Compensatory afforestation scheme suggested in the area is in consonance with the working plan prescriptions, specified for the said area.

Date: 22/07/2020

Place: SURAT

  
Dy. Conservator of Forests  
Surat.

# GeoRef Map

Village- Kevdi kund

Ta- Mangrol

Dist- Surat

Area- 12 ha

## Legend

CA Polygon

GPS Point

21°28'22.07"N, 73°17'20.38"E

21°28'22.47"N, 73°17'26.87"E

21°28'3.09"N, 73°17'18.36"E

21°28'2.72"N, 73°17'26.26"E

Google Earth

Image © 2020 Maxar Technologies

N

300 m