

**Compensatory Afforestation Scheme for Double Degraded Area**

**Subject:** Diversion of 0.0306 ha. Protected forest land for 66 KV transmission line in District; Banaskantha

Detailed scheme of Compensatory Afforestation for Double degraded Area 1.00 ha. to be carried out in lieu of 0.0306 ha. of Protected forest land to be diverted in Social Forestry Division Banaskantha district.

**1. Details of degraded land.**

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| Village                                  | Malana                                               |
| Taluka                                   | Palanpur                                             |
| Range                                    | Palanpur                                             |
| District                                 | Banaskantha                                          |
| Division                                 | Banaskantha                                          |
| Block/ Patal, Compartment No., Survey No | 453/pt                                               |
| Area to be afforested                    | 1.00 ha.                                             |
| Working circle                           | Reboishment and watershed development working circle |

**2. Description of Area.**

|                                                          |             |
|----------------------------------------------------------|-------------|
| Soil type                                                | Sandy/Muram |
| Topography                                               | Medium      |
| Slope                                                    | Medium      |
| 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 Banaskantha Division as early as possible after the proposal is formally approved.                                                                                                                                                                     |
| (ii) | Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about <b>Rs.6,86,869/-</b> Dy.Executive Engineer, (Const.) Construction Division, GETCO, Deesa 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:

| 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 degraded area. The prevailing wage rates 351.30 per day.                                                                                                                                                                                                                                                                                                      |                  |                                  |
| b                                                               | Spacement                                     | 3 X 3 mtr., 1111 plants per ha.                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                  |
| c                                                               | Species to be planted (No. of plants per ha.) | Speaces                                                                                                                                                                                                                                                                                                                                                                                                                          | Number of Plants | Minimum planting height (in cm.) |
|                                                                 |                                               | Babul                                                                                                                                                                                                                                                                                                                                                                                                                            | 100              | 65                               |
|                                                                 |                                               | Kanji                                                                                                                                                                                                                                                                                                                                                                                                                            | 200              | 75                               |
|                                                                 |                                               | Bordi                                                                                                                                                                                                                                                                                                                                                                                                                            | 250              | 65                               |
|                                                                 |                                               | Neem                                                                                                                                                                                                                                                                                                                                                                                                                             | 50               | 75                               |
|                                                                 |                                               | Gunda                                                                                                                                                                                                                                                                                                                                                                                                                            | 50               | 75                               |
|                                                                 |                                               | Gundi                                                                                                                                                                                                                                                                                                                                                                                                                            | 50               | 50                               |
|                                                                 |                                               | Bamboo                                                                                                                                                                                                                                                                                                                                                                                                                           | 25               | 65                               |
|                                                                 |                                               | Ardusa                                                                                                                                                                                                                                                                                                                                                                                                                           | 125              | 90                               |
|                                                                 |                                               | RagatRoyado                                                                                                                                                                                                                                                                                                                                                                                                                      | 50               | 50                               |
|                                                                 |                                               | Garmalo                                                                                                                                                                                                                                                                                                                                                                                                                          | 100              | 65                               |
|                                                                 |                                               | Khakhro (Buteamonospermavar, lutea),Dudhkudi (Wrightiatinctoria), Aval, Kada                                                                                                                                                                                                                                                                                                                                                     | 111              | 50                               |
|                                                                 |                                               | Total                                                                                                                                                                                                                                                                                                                                                                                                                            | 1111             |                                  |
| 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            | (i) Pucca structure like Check dam, check wall, retaining wall<br>(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 and percolation tank 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 <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.                                                                                                                                                                                                                                                                                                                                                                       |                  |                                  |

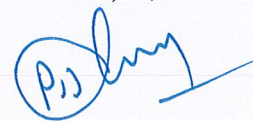


|   |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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      | <p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.<br/>Forester – 100%<br/>RFO – 100%<br/>ACF – 20%<br/>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              | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



(P.J. Chaudhari)  
Dy. Conservator of Forest  
Banaskantha, Palanpur

The Compensatory Afforestation scheme at the cost of **Rs.6,86,869/-** is technically and administrative approved by the undersigned.



(P.J. Chaudhari)  
Dy. Conservator of Forest  
Banaskantha, Palanpur



## Model No - 3

### Compensatory Afforestation Scheme for Dubble dgraded area

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<br>1                                                                                                                                      | Qty.<br>2   | Labour<br>3   | Material<br>4 | Total<br>5    |
| <b>0 year</b>                                                                                                                                          |             |               |               |               |
| Nursery                                                                                                                                                |             |               |               |               |
| (a) Cost of soil, ,manure, seeds, water, fertililizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement) | 1222        | 0             | 2071          | 2071          |
| (b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.                                      | 1222        | 5068          | 263           | 5331          |
| (c ) Seedling cost for casuality replacement in one year old (20%)                                                                                     | 222         | 1601          | 479           | 2080          |
| (d) Seedling cost for casuality replacement in two year old (10%)                                                                                      | 111         | 802           | 239           | 1041          |
| <b>Total</b>                                                                                                                                           |             | <b>7471</b>   | <b>3052</b>   | <b>10523</b>  |
| <b>2. Area Development ( Land Preparation )</b>                                                                                                        |             |               |               |               |
| (a) Survey, cutback and promotion of root suckers                                                                                                      |             | 3808          | 0             | 3808          |
| (b) Aligment and digging of pits 0.45 X 0.45 X 0.45                                                                                                    | 1111 @ 6.00 | 10996         | 0             | 10996         |
| <b>Total</b>                                                                                                                                           |             | <b>14804</b>  | <b>0</b>      | <b>14804</b>  |
| (a) Natural fertilizer (Neem cake/ Castor cake)                                                                                                        | 1111 @ 5.00 | 0             | 11216         | 11216         |
| <b>Total</b>                                                                                                                                           |             | <b>0</b>      | <b>11216</b>  | <b>11216</b>  |
| <b>3. SMC Works</b>                                                                                                                                    |             |               |               |               |
| (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.    | 10297         | 0             | 10297         |
| <b>Total</b>                                                                                                                                           |             | <b>23824</b>  | <b>26852</b>  | <b>50676</b>  |
| <b>4. Protection</b>                                                                                                                                   |             |               |               |               |
| (a) Barbed wire fencing per 1 rmt. 457/- Rs.                                                                                                           | 420 rmt.    | 84454         | 126680        | 211134        |
| (b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence                                                                         |             | 1256          | 539           | 1795          |
| <b>Total</b>                                                                                                                                           |             | <b>85710</b>  | <b>127219</b> | <b>212929</b> |
| <b>Total for 0 year</b>                                                                                                                                |             | <b>131809</b> | <b>168339</b> | <b>300148</b> |
| <b>1st Year</b>                                                                                                                                        |             |               |               |               |
| (a) Maintenance of nursery (April to June)                                                                                                             | 1222        | 3887          | 389           | 4276          |
| (b) Transport of seedling for plantation                                                                                                               | 1111        | 2132          | 440           | 2572          |
| (c) Planting with khamna of Min 1 m dia                                                                                                                | 1111        | 6556          | 0             | 6556          |
| (d)Transport & planting of seediling for casuality replacement                                                                                         | 111         | 228           | 50            | 278           |
| (e) 3 weeding cum soil working                                                                                                                         | 1111        | 25549         | 0             | 25549         |
| (f) Support watering 5 times @ 3.25                                                                                                                    |             | 16332         | 23435         | 39767         |
| (g) Protection / tending operation                                                                                                                     |             | 5286          | 0             | 5286          |
| (h) Tending to natural vegetation                                                                                                                      |             | 1321          | 0             | 1321          |
| (i) Contigency                                                                                                                                         |             | 0             | 1321          | 1321          |
| <b>Total for 1st year</b>                                                                                                                              |             | <b>61291</b>  | <b>25635</b>  | <b>86926</b>  |



| Item of work                                                           | Qty.        | Labour        | Material      | Total         |
|------------------------------------------------------------------------|-------------|---------------|---------------|---------------|
| <b>2nd Year</b>                                                        |             |               |               |               |
| (a) 2 weeding & soil working                                           |             | 14190         | 0             | 14190         |
| (b) 20 % Casually replcement, transport and planting                   | 111+111     | 239           | 1188          | 1427          |
| (c) Natural fertilizer (neem cake / caster cake ) etc.                 | Rs.5/ plant | 0             | 13255         | 13255         |
| (d ) Support watering 3 times @ 3.25                                   |             | 10613         | 15232         | 25845         |
| (e) Protection / tending operation                                     |             | 5727          | 0             | 5727          |
| <b>Total for 2nd year</b>                                              |             | <b>30769</b>  | <b>29675</b>  | <b>60444</b>  |
| <b>3rd Year</b>                                                        |             |               |               |               |
| (a) 2 weeding & soil working                                           |             | 15281         | 0             | 15281         |
| (b) 10 % Casually replcement, transport and planting                   | 111         | 129           | 640           | 769           |
| (b) Natural fertilizer, neem cake etc.                                 | Rs.5/ plant | 0             | 14274         | 14274         |
| (c ) Support watering 1 times @ 3.25                                   |             | 3811          | 5468          | 9279          |
| (d) Protection & maintenance of fencing / tending operation            | L.S.        | 7708          | 0             | 7708          |
| <b>Total for 3rd year</b>                                              |             | <b>26929</b>  | <b>20382</b>  | <b>47311</b>  |
| <b>4thYear</b>                                                         |             |               |               |               |
| (a) 1 weeding & soil working                                           |             | 8186          | 0             | 8186          |
| (b) Protection & Maintenance of fencing/ Tending operation             | L.S.        | 8259          | 0             | 8259          |
| <b>Total for 4th year</b>                                              |             | <b>16445</b>  | <b>0</b>      | <b>16445</b>  |
| <b>5thYear</b>                                                         |             |               |               |               |
| Protection & maintenance of fencing/ tending operation                 | L.S.        | 8810          | 0             | 8810          |
| <b>Total for 5th year</b>                                              |             | <b>8810</b>   | <b>0</b>      | <b>8810</b>   |
| <b>6thYear</b>                                                         |             |               |               |               |
| Protection & maintenance of fencing/ tending operation                 | L.S.        | 9360          | 0             | 9360          |
| <b>Total for 6th year</b>                                              |             | <b>9360</b>   | <b>0</b>      | <b>9360</b>   |
| <b>7thYear</b>                                                         |             |               |               |               |
| Protection & maintenance of fencing/ tending operation                 | L.S.        | 9911          | 0             | 9911          |
| <b>Total for 7th year</b>                                              |             | <b>9911</b>   | <b>0</b>      | <b>9911</b>   |
| <b>8thYear</b>                                                         |             |               |               |               |
| Protection & maintenance of fencing/ tending operation                 | L.S.        | 10461         | 0             | 10461         |
| <b>Total for 8th year</b>                                              |             | <b>10461</b>  | <b>0</b>      | <b>10461</b>  |
| <b>9thYear</b>                                                         |             |               |               |               |
| Protection & maintenance of fencing/ tending operation                 | L.S.        | 11012         | 0             | 11012         |
| <b>Total for 9th year</b>                                              |             | <b>11012</b>  | <b>0</b>      | <b>11012</b>  |
| <b>10thYear</b>                                                        |             |               |               |               |
| Protection & maintenance of fencing/ tending operation                 | L.S.        | 11563         | 0             | 11563         |
| <b>Total for 10th year</b>                                             |             | <b>11563</b>  | <b>0</b>      | <b>11563</b>  |
| <b>SubTotal</b>                                                        |             | <b>328360</b> | <b>244031</b> | <b>572391</b> |
| <b>Total cost of supervision/subsequentalsilvicultureal operations</b> | 20%         | 65672         | 48806         | 114478        |
| <b>Grand Total</b>                                                     |             | <b>394032</b> | <b>292837</b> | <b>686869</b> |

**Note :-**

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



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**Model-3 1111 Pt/Ha.**

| Sr. No. | Rate | Hactor                                  | 0 Year | 1st Year | 2nd Year | 3rd Year | 4th Year | 5th Year | 6th Year | 7th Year | 8th Year | 9th Year | 10th Year | Total          | 20% Add | Grand Total |
|---------|------|-----------------------------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------------|---------|-------------|
| 1       | 3    | 4                                       | 5      | 6        | 7        | 8        | 9        | 10       | 11       | 12       | 13       | 14       | 15        | 16             | 17      | 18          |
| 1       | A    | 1.00                                    | 272860 | 72439    | 46495    | 33794    | 10963    | 5506     | 5506     | 5506     | 5506     | 5506     | 5506      | 469587         | 93917   | 563504      |
|         | B    | Increased Rate par 1.00 Ha .by 10% Year | 300148 | 86926    | 60444    | 47311    | 16445    | 8810     | 9360     | 9911     | 10461    | 11012    | 11563     | 572391         | 114478  | 686869      |
|         |      |                                         |        |          |          |          |          |          |          |          |          |          |           |                |         |             |
| 2       | A    | 1.0000                                  | 272860 | 72439    | 46495    | 33794    | 10963    | 5506     | 5506     | 5506     | 5506     | 5506     | 5506      | 469587         | 93917   | 563504      |
|         | B    | Increased by 10% Year                   | 300148 | 86926    | 60444    | 47311    | 16445    | 8810     | 9360     | 9911     | 10461    | 11012    | 11563     | 572391         | 114478  | 686869      |
|         |      |                                         |        |          |          |          |          |          |          |          |          |          |           | Total Cost Rs. |         | 686869      |

For Different Years the rate shown for B has been derived from A as Follows.

NB:(2)-

In column 17 the additional 20% is towards the cost of supervision/subsequent silvicultural operations

Dv. Conservator of Forests  
Banaskantha, Palanpur



| Name of works                                                 | Model No. | Area   | Rate per | 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.<br>1st Year Operation.                  | Model-3   | 1.0000 | 300148   | 300148 | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        | 60030     | 360178 |
| 1st Year 30 % Advance work<br>Current year plantation         |           |        | 86926    | 0      | 86926    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        | 17385     | 104311 |
| 2nd Year operation Maintanance<br>of one year old plantation. |           |        | 60444    | 0      | 0        | 60444    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        | 12089     | 72533  |
| 3rd Year operation Maintanance<br>of 2 years old plantation.  |           |        | 47311    | 0      | 0        | 0        | 47311    | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 0        | 9462      | 56773  |
| 4th year operation Maint.of 3<br>years old plantation.        |           |        | 16445    | 0      | 0        | 0        | 0        | 16445    | 0        | 0        | 0        | 0        | 0        | 0         | 0        | 3289      | 19734  |
| 5th year operation Maint.of 4<br>years old plantation.        |           |        | 8810     | 0      | 0        | 0        | 0        | 0        | 8810     | 0        | 0        | 0        | 0        | 0         | 0        | 1762      | 10572  |
| 6th year operation Maint.of 5<br>years old plantation.        |           |        | 9360     | 0      | 0        | 0        | 0        | 0        | 0        | 9360     | 0        | 0        | 0        | 0         | 0        | 1872      | 11232  |
| 7th year operation Maint.of 6<br>years old plantation.        |           |        | 9911     | 0      | 0        | 0        | 0        | 0        | 0        | 0        | 9911     | 0        | 0        | 0         | 0        | 1982      | 11893  |
| 8th year operation Maint.of 7<br>years old plantation.        |           |        | 10461    | 0      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 10461    | 0        | 0         | 0        | 2092      | 12553  |
| 9th year operation Maint.of 8<br>years old plantation.        |           |        | 11012    | 0      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 11012    | 0         | 0        | 2202      | 13214  |
| 10th year operation Maint.of 9<br>years old plantation.       |           |        | 11563    | 0      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 11563     | 0        | 2313      | 13876  |
| Total                                                         |           |        | 572391   | 300148 | 86926    | 60444    | 47311    | 16445    | 8810     | 9360     | 9911     | 10461    | 11012    | 11563     | 114478.2 | 686869    |        |



(P.J. Chaudhari)  
Dy. Conservator of Forests  
Banaskantha, Palanpur



## ***CERTIFICATE***

This is to certify that the compensatory afforestation scheme attached herewith for 1.00 ha in Malana Village, Ta. Palanpur, Survey No. 453pt. in lieu Diversion of .....0.0306 ha. Protected forest land for 66 KV transmission line in District; Banaskantha with the guidelines issued vide additional Principal Chief Conservator of Forests, Land Gujarat State Gandhinagar Letter No. land/31/b/147-216/2016-17, Dated.06/04/2016 and same is here by approved technically.

Palanpur

Date: 20/6/2022

(P.J. Chaudhari)  
Dy.Conservator of Forests,  
Banaskantha-Palanpur