

## ANNEXURE - XIII - G2

## INTEGRATED FORESTRY DEVELOPMENT PROJECT

## ( SOCIAL FORESTRY ) GUJARAT

## REFORESTATION OF DEGRADED AREA - R2

|   |                 |  |       | Model - R2 |       |         |
|---|-----------------|--|-------|------------|-------|---------|
| Polypot size - 15 cms x 25 cms x 200g   |                 |  |       |            |       |         |
| DAILY WAGES - Rs. 297.60 / day  |                 | 2000 PLANTS + 10% CASUALITY + 10% CASUALITY = 2400 PLANT PER HA. |       |            |       |         |
| Item of works   | Qty.            | Rate in Rs.  | L Rs. | M Rs.      | T Rs. | Remarks |
| <b>NURSERY :</b>  |                 |  |       |            |       |         |
| Raising of seedlings in 15 x 25 x 200 size polypots up to March, cost of containers, Soil, Manure, Seeds, Water, Fertilizer, insecticide, implementation of land etc. | 2400 Seedlings  | Lump   | 3069  | 6196       | 9265  |         |
| Sorting & arranging of bagspreparation of beds, sowing of seeds, watering, shifting weeding etc.  | --              | Lump   | 7359  | 0          | 7359  |         |
| Purchase of seeds of grass herbs and preparation of grass fellets.  | --              | Lump   | 205   | 274        | 479   |         |
| Maintenance of seedlings from April - June  | --              | Lump   | 1104  | 1534       | 2638  |         |
|   |                 |  | 11737 | 8004       | 19741 |         |
|   |                 |  |       |            |       |         |
| <b>LAND PREPARATION</b>   |                 |  |       |            |       |         |
| Contour trench 2 rmt length 45 cm width x 30 cm depth   | 400/RMT per ha. |  | 7443  | 0          | 7443  |         |
| Gully plugging  | 1 ha.           |  | 933   | 0          | 933   |         |
| Nala Bunding  | 20cmt/ha        |  | 3715  | 0          | 3715  |         |
| Van Talavadi  | 5000/ha         |  | 38851 | 0          | 38851 |         |
| Digging of pits 30 cm x 30 cm x 30 cm   | 1666            |  | 8516  | 0          | 8516  |         |
| Seed Sowing on contour bunds  | 400/ha          |  | 661   | 86         | 747   |         |
| Contingency   |                 |  | 600   | 0          | 600   |         |
|   |                 |  | 60719 | 86         | 60805 |         |
|   |                 |  |       |            |       |         |

| Item of works  | Qty.           | Rate in Rs. | L Rs.        | M Rs.       | T Rs.        | Remarks |
|--|----------------|-------------|--------------|-------------|--------------|---------|
| <b>PROTECTION</b>  |                |             |              |             |              |         |
| Stone wall fencing 1mt x 1 mt x 60 cm                            | 100RMT/ ha     |             | 18602        | 0           | 18602        |         |
| Trench 120 cm x 60 cm x 60 cm including Ipomea/ Planting         | 100RMT/ ha.    |             | 6978         | 0           | 6978         |         |
| Sowing of seeds on contour trenches and inner side of stone wall | 100RMT/ ha     |             | 140          | 86          | 226          |         |
|  |                |             | <b>25720</b> | <b>86</b>   | <b>25806</b> |         |
| <b>First YEAR OPERATIONS :</b>                                   |                |             |              |             |              |         |
| <b>PLANTING :</b>  |                |             |              |             |              |         |
| Transport of seedlings   | 2000 Seedlings |             | 1073         | 1709        | 2782         |         |
| Planting   | 2000 Seedlings |             | 4576         | 0           | 4576         |         |
| 3 weeding cum soil working                                       | Lump           |             | 18595        | 0           | 18595        |         |
| Application of DAP 10 gm./ plant one                             | 1666           |             | 2167         | 5128        | 7295         |         |
| Preparation of 10000 pellets and sowing etc.                     | Lump/sum       |             | 653          | 257         | 910          |         |
| 1st year - 9 Months for 25 ha.                                   | 1 ha.          |             | 2253         | 0           | 2253         |         |
|  |                |             | <b>29317</b> | <b>7094</b> | <b>36411</b> |         |
| <b>SECOND YEAR OPERATIONS :</b>                                  |                |             |              |             |              |         |
| 10 % OF Nursery stock for casualty replacement                   |                |             | 466          | 0           | 466          |         |
| Transport & Planting   |                |             | 109          | 0           | 109          |         |
| Two weeding cum soil working                                     | 1666           |             | 15494        | 0           | 15494        |         |
| Protection   |                |             | 3178         | 0           | 3178         |         |
|  |                |             | <b>19247</b> | <b>0</b>    | <b>19247</b> |         |
| <b>THIRD YEAR OPERATION :</b>                                    |                |             |              |             |              |         |
| 10 % OF Nursery stock for casualty replacement                   |                |             | 466          | 0           | 466          |         |
| Transport & Planting   |                |             | 109          | 0           | 109          |         |
| One weeding cum soil working                                     | 1666           |             | 7746         | 0           | 7746         |         |
| Protection   |                |             | 3178         | 0           | 3178         |         |
|  |                |             | <b>11499</b> | <b>0</b>    | <b>11499</b> |         |
| <b>4th YEAR OPERATIONS :</b>                                     |                |             |              |             |              |         |
| Weeding & Soil working   |                |             | 7746         | 0           | 7746         |         |
| Protection   |                |             | 3178         | 0           | 3178         |         |
|  |                |             | <b>10924</b> | <b>0</b>    | <b>10924</b> |         |



| Item of works                               | Qty. | Rate<br>in Rs.     | L<br>Rs.      | M<br>Rs.     | T<br>Rs.      | Remarks |
|---|------|--------------------|---------------|--------------|---------------|---------|
| <b>5th YEAR OPERATIONS :</b>                |      |                    |               |              |               |         |
| Weeding & Soil working                      |      |                    | 7746          | 0            | 7746          |         |
| Protection                                  |      |                    | 3178          | 0            | 3178          |         |
|   |      |                    | <b>10924</b>  | <b>0</b>     | <b>10924</b>  |         |
| <b>6th YEAR OPERATIONS :</b>                |      |                    |               |              |               |         |
| Fencing repair                              |      |                    | 3847          | 0            | 3847          |         |
| Tending of natural seedling (200 seedlings) |      |                    | 1555          | 0            | 1555          |         |
| Protection                                  |      |                    | 3178          | 0            | 3178          |         |
|   |      |                    | <b>8580</b>   | <b>0</b>     | <b>8580</b>   |         |
| <b>7th YEAR OPERATIONS :</b>                |      |                    |               |              |               |         |
| Protection                                  |      |                    | <b>3178</b>   | <b>0</b>     | <b>3178</b>   |         |
|   |      |                    |               |              |               |         |
| <b>8th YEAR OPERATIONS :</b>                |      |                    |               |              |               |         |
| Protection                                  |      |                    | <b>3178</b>   | <b>0</b>     | <b>3178</b>   |         |
|   |      |                    |               |              |               |         |
| <b>9th YEAR OPERATIONS :</b>                |      |                    |               |              |               |         |
| Protection                                  |      |                    | <b>3178</b>   | <b>0</b>     | <b>3178</b>   |         |
|   |      |                    |               |              |               |         |
| <b>10th YEAR OPERATIONS :</b>               |      |                    |               |              |               |         |
| Protection                                  |      |                    | <b>3178</b>   | <b>0</b>     | <b>3178</b>   |         |
|   |      |                    |               |              |               |         |
|   |      |                    | <b>3178</b>   | <b>0</b>     | <b>3178</b>   |         |
|   |      | <b>Grand Total</b> | <b>201379</b> | <b>15270</b> | <b>216649</b> |         |

  
**Deputy Conservator of Forest**  
**Marine National Park**  
**Jamnagar**

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**Annexure-15**  
**Scheme for Compensatory Afforestation**

Detailed scheme for Compensatory Afforestation forest Department on equivalent non forest area.

(1) Details of non-forest land

District :- **Devbhumi Dwarka** Village :- **Vasai** Taluka :- **Dwarka**

Name of Forest Division :- **Marine National Park, Jamnagar** Range :- **MNP Dwarka**

Block / Compartment / Survey no. :- **114/p (Old S.n.70/1P)**

Area to be afforested :- **11.26 Ha.**

(2) Description of Area

Soil type :- **Soft**

Topography :- **Plain**

Slope :- **Medium**

Whether the area is bearing any root stock or Vegetation:- **Vad,Gugad, Thor,Babool etc.**

(3) Name of Plantation Programme :- **Compensatory Afforestation R-2 Model**

(4) Schedule of Plantation programme

The Compensatory/Afforestation on non-forest degraded forest land would be started by **Dy. Conservator of Forests, Marine National Park, Jamnagar** as early as possible after the proposal is formally approved.

Details of Year wise break-up of requirement of fund is as under:-

**Calculation of Daily wage rate Rs. 297.60**

| Year                          | Area in Ha. | Rate/Ha.      | Total Amt.     |
|-------------------------------|-------------|---------------|----------------|
| 0 Year                        | 11.26       | 106352        | 1197524        |
| 1 <sup>st</sup> Year          | 11.26       | 36411         | 409988         |
| 2 <sup>nd</sup> Year          | 11.26       | 19247         | 216721         |
| 3 <sup>rd</sup> Year          | 11.26       | 11499         | 129479         |
| 4 <sup>th</sup> Year          | 11.26       | 10924         | 123004         |
| 5 <sup>th</sup> Year          | 11.26       | 10924         | 123004         |
| 6 <sup>th</sup> Year          | 11.26       | 8580          | 96611          |
| 7 <sup>th</sup> Year          | 11.26       | 3178          | 35784          |
| 8 <sup>th</sup> Year          | 11.26       | 3178          | 35784          |
| 9 <sup>th</sup> Year          | 11.26       | 3178          | 35784          |
| 10 <sup>th</sup> Year         | 11.26       | 3178          | 35784          |
| Total of work                 |             | 216649        | 2439468        |
| <b>Supervision Charge 20%</b> |             | <b>43330</b>  | <b>487896</b>  |
| <b>Grand Total :-</b>         |             | <b>259979</b> | <b>2927364</b> |

The user agency has given an undertaking to pay the cost of Compensatory afforestation as per the prevailing wages (including the price escalation and supervision charges)

  
**Dy. Conservator of Forests**  
**Marine National Park**  
**Jamnagar.**

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**Technical Detail (R-2 Model)**

**Technical details of Compensatory Afforestation are as follow:-**

- |    |   |    |  |
|----|---|----|--|
| a) | General Details   | :- | 2400 plants/ha will be planted or deep ploughing   |
| b) | Spacing   | :- | 3mtx2mt/for Tree species and 6mtx3mt shrub species   |
| c) | Species   | :- | Pilu, Dehi baval, untmarod, Gundi, etc.  |
| d) | Nursery technique   | :- | Nursery will be raised in polybags of 15cmx20cmx200mg of size 10x1mt nursery beds will be dug.                                   |
| e) | Site preparation  | :- | Deep ploughing or pits will be dug.  |
| f) | Plantation method<br>(Size of Pit, ploughing etc.)  | :- | 30cmx30cmx30cm pits to be dug before monsoon 2000 plants per ha. will be planted in pits already dug or in a furrow if ploughed. |
| g) | SMC works   | :- | Check dam and contour bunds or Van Talavadi as per site requirement.   |
| h) | Protection  | :- | Trench fencing 120cmx60cm to be dug around the boundary  |
| i) | Silvicultural operations  |    | Three soil working in current years followed by two soil working in one year and one soil working in Third years                 |
| j) | Maintenance   | :- | By casual labour of 10 years.  |
| k) | Subsequent silvicultural operations proposed such as cleaning, cutbacks, thinning etc. ( as per species specific requirement) | :- | Whenever required  |
| l) | Arrangement for people participation (if any) for long term sustenance of the plantation                                      | :- | Departmental staff   |
| m) | Proposed monitoring mechanism   | :- | Monitoring will be done by monitoring wing of forest department  |

  
**Dy. Conservator of Forest  
Marine National Park  
Jamnagar**

**Technically Sanctioned for Rs. 2927364 ( Twenty Nine lacs Twenty Seven Thousands Three hundred Sixty Four only)**

  
**Chief Conservator of Forest  
Marine National Park  
Jamnagar**