

**Compensatory Afforestation Scheme for double degraded area**

Diversion of 1.1509 Ha. Protected forest land (Road Side) for laying of 20 LPG pipeline across/parallel various road from Mundra port to GAIL receiving station at Mithi Rohar 1.1509 under Forest Conservation Act-1980 in Adani Port & SEZ Ltd.area in Kutch dist. of Gujarat State.

Detailed scheme of Compensatory Afforestation for degraded area 3.00 ha.to be carried out in lieu of 1.1509 ha.of Protected forest land to be diverted in Kutch district.

**1. Details of degraded land.**

|                               |            |
|-------------------------------|------------|
| Village                       | Khedoi     |
| Taluka                        | Anjar      |
| Range                         | Anjar      |
| District                      | Kutch      |
| Division                      | Kutch East |
| Block/ Patal, Compartment No. | 718/p.     |
| Area to be afforested         | 3.00 Ha.   |
| Working circle                |            |

**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 Kutch East Division as early as possible after the proposal is formally approved.   |
| (ii) | Compensatory Afforestation will be done in 3.00 ha.area. The total afforestation cost will be about <b>Rs.14, 24,268</b> /-Adani Port & SEZ ltd.has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges). |



**Technical Details:-**

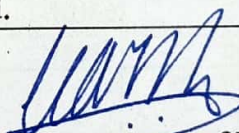
Technical details of Compensatory Afforestation are as Follows:

| 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 324.50 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>Gundi</td><td>211</td><td>65 cm</td><td rowspan="7">Minimum planting height will be 75 cm. at the time of planting. However it will vary for different species.</td></tr><tr><td>Neem</td><td>250</td><td>75 cm</td></tr><tr><td>Pilu</td><td>225</td><td>50 cm</td></tr><tr><td>Khijado</td><td>150</td><td>65 cm</td></tr><tr><td>DeshiBaval</td><td>225</td><td>65 cm</td></tr><tr><td>Chhini Lai<br/>(Tamarixaphylla)</td><td>50</td><td>65 cm</td></tr><tr><td><b>Total</b></td><td><b>1111</b></td><td></td></tr></table> | Gundi   | 211 | 65 cm | Minimum planting height will be 75 cm. at the time of planting. However it will vary for different species. | Neem | 250 | 75 cm | Pilu | 225 | 50 cm | Khijado | 150 | 65 cm | DeshiBaval | 225 | 65 cm | Chhini Lai<br>(Tamarixaphylla) | 50 | 65 cm | <b>Total</b> | <b>1111</b> |  |
| Gundi                          | 211  | 65 cm  | Minimum planting height will be 75 cm. at the time of planting. However it will vary for different species. |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| Neem                           | 250  | 75 cm  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| Pilu                           | 225  | 50 cm  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| Khijado                        | 150  | 65 cm  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| DeshiBaval                     | 225  | 65 cm  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| Chhini Lai<br>(Tamarixaphylla) | 50   | 65 cm  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| <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               | (i) Pucca structure like Check dam, check wall, retaining wall<br>Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha.will be dug along the contour line. The dug out soil will be heaped on the down ward side. Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| h                              | Protection Trench                                | Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/Glarcidia along the fence  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |
| i                              | Silvicultural Operations                         | 1 <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.  |   |     |       |   |      |     |       |      |     |       |         |     |       |            |     |       |                                |    |       |              |             |  |

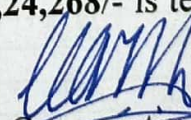
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|   |                                    |  |
|---|------------------------------------|--|
|   |                                    | 3 <sup>rd</sup> year one weeding soil working.   |
|   | Maintenance                        | It is proposed to maintain 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.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>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> |
| 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  
 Kachchh East Division, Bhuj.

The Compensatory Afforestation scheme at the cost of **Rs.14,24,268/-** is technically and administrative approved by the undersigned.

  
 Dy Conservator of Forest  
 Kachchh East Division, Bhuj.

  
 Deputy Conservator to Forests  
 Extension Division Kachchh-Bhuj