

**Compensary Afforestation Scheme for Non Forest area**

Diversion of 3.0684 ha. Protected Forest Land psrallel Kosmba-Velachha-Mos Jhankhvav Road (SH-166) for the project of Mining Opration of Lignite project in TA-Mang Dist-Surat.

Detailed scheme of Compensatory Afforestation for Non Forest area 3.0684 ha. to carried out in

lieu of 3.0684 ha. of Protected forest land to be diverted in Surat district.

**1. Details of degraded land.**

Village	Shah
Taluka	Mangrol
Range	Vankal
District	Surat
Division	Surat
Block/ Survey No.	196,198 Pt.
Area to be afforested	3.0684 Ha.

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

- |      |  |
|------|--|
| (i)  | The Compensatory Afforestation on Non Forest 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 3.0684 ha. area. The total afforestation cost will be about Rs.17,65,974/- Gujarat Industries Power Company Ltd. Mnagrol 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 (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>	
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<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 (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 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																											

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**Model No - 3****Annexure-4 (1)****Compensatory Afforestation Scheme for double degradation areas & Non Forest****Daily wages Rs.324.50**

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	Qty.	Labour	Material	Total
1	2	3	4	5
<b>0 year</b>				
<b>Nursery</b>				
Cost of soil, ,manure, seeds, water, fertilizier, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	1913	1913
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4681	242	4923
(c ) Seedling cost for casualty replacement in one year old (20%)	222	1480	442	1922
(d) Seedling cost for casualty replacement in two year old (10%)	111	741	220	961
<b>Total</b>		<b>6902</b>	<b>2817</b>	<b>9719</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers		3517	0	3517
Alignment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10157	0	10157
<b>Total</b>		<b>13674</b>	<b>0</b>	<b>12974</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10360	10360
<b>Total</b>		<b>0</b>	<b>10360</b>	<b>10360</b>
<b>3. SMC Works</b>				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12495	24804	37299
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9511	0	9511
<b>Total</b>		<b>22006</b>	<b>24804</b>	<b>46810</b>

<b>4. Protection</b>				
(a) Barbed wire fencing	L.S.	3730	37299	41029
(b) Seed sowing and planting of cuttings of Ipomea/ Gliricidia along the fence		1160	499	1659
<b>Total</b>		<b>4890</b>	<b>37798</b>	<b>42688</b>
<b>Sub Total of 0 year</b>		<b>47472</b>	<b>75779</b>	<b>123251</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	1222	3519	358	3877
(b) Transport of seedling for plantation	1111	19438	407	19845
(c) Planting with khamna of Min 1 m dia	1111	6054	0	6054
(d) Transport of seedling for casualty replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	24654	0	24654
(f) Support watering 5 times @ 3.25		15086	21646	36732
(g) Protection / tending operation		4861	0	4861
(h) Tending to natural vegetation		1220	0	1220
(i) Contingency		0	1220	1220
(j) Barbed Wire fencing (410/- Per Meter)	205 RM	33620	50430	84050
<b>Total for 1st year</b>		<b>108662</b>	<b>74107</b>	<b>182769</b>
<b>2nd Year</b>				
(a) 2 weeding & soil working		13245	0	13245
(b) 20 % Casually replacement, transport and planting	111+111	220	1097	1317
(c) Natural fertilizer (neem cake / castor cake ) etc.	Rs.5/ plant	0	12243	12243
(d) Support watering 3 times @ 3.25		9802	14071	23873
(e) Protection / tending operation		5290	0	5290
<b>Total for 2nd year</b>		<b>28557</b>	<b>27411</b>	<b>55968</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		13979	0	13979
(b) 10 % Casually replacement, transport and planting	111	118	591	709
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13422	13422
(d) Support watering 1 times @ 3.25		3520	5050	8570
(e) Protection & maintenance of fencing / tending operation	L.S.	9141	0	9141
<b>Total for 3rd year</b>		<b>26758</b>	<b>19063</b>	<b>45821</b>

<b>4thYear</b>				
(a) 1 weeding & soil working		7720	0	7720
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7629	0	7629
<b>Total for 4th year</b>		<b>15349</b>	<b>0</b>	<b>15349</b>
<b>5thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8138	0	8138
<b>Total for 5th year</b>		<b>8138</b>	<b>0</b>	<b>8138</b>
<b>6thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	8646	0	8646
<b>Total for 6th year</b>		<b>8646</b>	<b>0</b>	<b>8646</b>
<b>7thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9155	0	9155
<b>Total for 7th year</b>		<b>9155</b>	<b>0</b>	<b>9155</b>
<b>8thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	9663	0	9663
<b>Total for 8th year</b>		<b>9663</b>	<b>0</b>	<b>9663</b>
<b>9thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
<b>Total for 9th year</b>		<b>10172</b>	<b>0</b>	<b>10172</b>
<b>10thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
<b>Total for 10th year</b>		<b>10681</b>	<b>0</b>	<b>10681</b>
<b>SUB TOTAL :</b>		<b>283253</b>	<b>196360</b>	<b>479613</b>
The Cost of Supervision/subsequential silvicultural operations	20%	56651	39272	95923
		<b>339904</b>	<b>235632</b>	<b>575536</b>
		<b>SAY</b>		<b>5,75,536</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 3.0684 ha. Area.  
The Total afforestation cost will be Rs. 17,65,974/-

**Total Cost Rs. :17,65,974/-**

  
Dy. Conservator of Forests  
Surat.

		provided if needed. 2 <sup>nd</sup> year two weeding soil working. 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.</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> <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.

  
Dy. Conservator of Forest  
Surat

The Compensatory Afforestation scheme at the cost of **Rs. 17,65,974/-** is technically and administrative approved by the undersigned.

  
Dy. Conservator of Forest  
Surat



**CERTIFICATE**

This is to Certify that the Compensatory Afforestation Scheme of 3.0684 ha. (Non-Forest area of diverted area 3.0684 ha ) received from the **The Gujarat Industries Power Company Ltd. Mangrol** has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

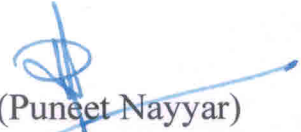
The Scheme in Question has been checked and found correct as per the prevailing wage rate structure and approved Model No-3 of plantation.

The Compensatory Afforestation has to be carried out in **Non Foest. Survey No- 196, 198 Pt. of Village- Shah, Taluka- Mangrol, Range : Vankal of Surat division at the cost of Rs. 17,65,974/- (In words Seventeen lakh Sixty Five thousand Nine hundred Seventy Four rupees Only).**

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

Date: /07/2020

Place: Surat

  
(Puneet Nayyar)  
Dy. Conservator of Forests  
Surat.

**ANNEXURE – 21**

**“SUITABILITY CERTIFICATE FROM DY.C.F. THAT THE LAND  
IDENTIFIED FOR COMPENSATORY AFFORESTATION IS  
SUITABLE FOR RAISING PLANTATION”**


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(Diversion of 3.0684 ha. P.F. Land for Non Forest Purpose for Mining in Road side on SH 166 in  
Favour of GIPCL Ltd Ta: Mangrol Dist. Surat)

This is to certify that I have visited Total 3.0684 ha. Area of non forest Village: Shah, Ta. Mangrol, Dist. Surat Non Forest Survey No. 196,198 Pt, on 30/06/2020. 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 3.0684 ha. of Protected forest land to be diverted in Charetha, Shah & Mosali Ta. Mangrol, Dist: Surat in Surat Social Forest Division of forest land and the said area is suitable for compensatory afforestation. It is also certified that the compensatory afforestation scheme suggested in the non forest area. and land is compact blocks and suitable from the management and protection point of view.

Date : 29/01/2021

Place: Surat

  
(Puneet Nayyar)  
Dy. Conservator of Forest  
Surat