

**ANNEXURE – NO. 19**

Detailed scheme of Compensatory Afforestation to be carried out in Non-Forest land to be diverted for Proposal for :-  
 Diversion of 188. Ha Forest Land of Village Hazira & Suvali of Ta.Choryasi Dist.Surat for Development of Port back up Facility  
 At.Adani Hazira port Ltd.

**C.A. Area 188.00 Ha**

**Details of Non-forest land.**

Village	:	Antarnesh
Taluka	:	Santalpur
Range	:	Radhanpur Normal
District	:	Patan
Division	:	Patan
Block/Patal. Compartment No.	:	322/P,208,246,162,175,177/P,4,85/P,173/1,291,339,157/1/1,349,17/P,35 0,223,204,220,215,215,269,17/1/1p,230,227,172,151/70,151/1p2,151/23, 151/55,151/77,230/2,43,43/p1,43/p2,4/p1,227p,151/81,156,221,221/p1,2 24,225,231,242,269/p2,270,270/P1,271,278,151/51,151/47,151/43,151/7 9,151/74 and 34
Area to be afforested	:	188.00 ha. (Land Sutiblity is already given to 229.1350 ha. Out of that 188.00 ha area with above indiwted survey no is to be afforested)
Working Circle	:	-

**Description of Area.**

Soil type	:	Black cotton with Murom
Topography	:	Plain
Whether the area is bearing any root stock or Vegetation	:	Yes

**Name of Plantation Programmed**

Compensatory Afforestation Scheme for Non-Forest land

**Schedule of plantation programme**

(i) The Compensatory Afforestation on Non- forest land would be started by Dy. Conservator of Forest, Patan Division, Patan (Gujarat) as early as possible after the proposal is formally approved.

(ii) Compensatory Afforestation will be done in 188.00 ha The total afforestation cost will be about Rs.14,24,46,593/- Detailed scheme of Compensatory Afforestation to be carried out in Non-Forest land to be diverted for Proposal for :- Diversion of 188. Ha Forest Land of Village Hazira & Suvali of Ta.Choryasi Dist.Surat for Development of Port back up Facility At.Adani Hazira port Ltd. in Gujarat state Under Forest Conservation Act-1980. Erection given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

**Technical Details :**

Sr.No.	Details	Specification											
a	General Details	The C.A. will be taken under Compensatory Afforestation for Non-Forest Area, The prevailing wage rate is 462.00 per day.											
b	Spacement	3.00 x 3.00 Mtr 1111 Plants per ha.											
c	Species to be planted (No. of plants per Ha)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Pilu</td> <td>700</td> <td>Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.</td> </tr> <tr> <td>Untmarod</td> <td>411</td> <td></td> </tr> <tr> <td><b>Total..</b></td> <td><b>1111</b></td> <td></td> </tr> </table>			Pilu	700	Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.	Untmarod	411		<b>Total..</b>	<b>1111</b>	
Pilu	700	Minimum Planting height will be 100 cm. at the time of planting. However it will vary for different species.											
Untmarod	411												
<b>Total..</b>	<b>1111</b>												
d	Nersery Technique	Nine months old polypot raised plants will be planted at the onest 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 & pitdigging 45x45x45 cms. will be carried out in the month of Dec-Jan.											
f	Plantation Method	Plypot raised plants will be planted during monsoon.											
g	Soil & Moisture Conservation Works	(i) Van Talav. (ii) Contour trenches 2.00x0.45x0.30.300 Nos/ha. Will be dug along the contour line. the dug out soil will be heaped on the down ward side. Seeds of Acacia nilotica, Prosopis juliflora plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.											
h	Protection Trench	Barbed wire fencing Protection Trench. Seed sowing and planting of Prosopis along the fence.											
i	Weeding & Watering	1st year three weeding soil working, Support watering will be provided if needed. 2nd year two weeding soil working. 3rd year one weeding soil working.											
j	Maintenance	It is proposed maintain the Plantation up to ten years											
k	Subsequent silvicultural Operations	Cleaning cutbacks. thinning etc. (as per species specific requерment) will be carried out at the age as per prescribed in the working plan.											

I	Proposed monitoring mechanism	<ul style="list-style-type: none"> <li>(i) A Plantation register is to be maintained.</li> <li>(ii) Monitoring is to be done as per following norms.           <table style="margin-left: 20px; border-collapse: collapse;"> <tr><td>Forester</td><td>100%</td></tr> <tr><td>RFO</td><td>100%</td></tr> <tr><td>ACF</td><td>20%</td></tr> <tr><td>DCF</td><td>10%</td></tr> </table> </li> <li>(iii) The result 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.</li> <li>(iv) The collar girth is also to be recorded at the end of each year.</li> <li>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species. except bamboo.</li> <li>(vi) Bamboo would be of the harvestable size by the end of 4th year.</li> <li>(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.</li> </ul>	Forester	100%	RFO	100%	ACF	20%	DCF	10%
Forester	100%									
RFO	100%									
ACF	20%									
DCF	10%									
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 degrader forest land.								

Place :- Patan

Date :- 25/06/ 2024

  
 Deputy Conservator of Forest  
 Patan Forest Division Patan

The Compensatory Afforestation scheme at the cost of Rs.14,24,46,593/- is technically and administratively approved by undersigned

Place :- Patan

Date :- 25/06/ 2024

  
 Deputy Conservator of Forest  
 Patan Forest Division Patan

## **Compensatory Afforestation Scheme for Non-Forest areas**

Detailed scheme of Compensatory Afforestation to be carried out in Non-Forest land to be diverted for Proposal for :-  
 Diversion of 188. Ha Forest Land of Village Hazira & Suvali of Ta.Choryasi Dist.Surat for Development of Port back up Facility At.Adani Hazira port Ltd.

Spacemnts = 3m x 3m

Total diversion area : 188.00 (Land Sutiblity is already given to 229.1350 ha. Out of that 188.00 ha area with above indiwted survey no is to be afforested)

1st Year replacement 10% = 111 seedlings/ha

2nd Year replacement 20% = 111+111 seedlings/ha

3rd Year replacement 10% = 111 seedlings/ha

Total Seedlings = 1333 seedling/ha

Polypot size: 15 cm x 25 cm x 200

	Item of Work	Qty	Daily wages Rate Rs. 462.00/-		
			Labour	Material	Total
<b>0 Year</b>					
<b>Nursery</b>					
(a)	Cost of soil, manure, seeds, water, fartilizer, insecticides, implements, rent of lands. Shade, etc (including 10% for casualty replacement)	1222	0	2723	2723
(b)	Labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering, shifting, weeding etc.	1222	6365	345	6710
(c)	Seedling cost for casualty replacement in one year old (20%)	222	2107	629	2735
(d)	Seedling cost for casualty replacement in one year old (10%)	111	1055	314	1368
	<b>Total</b>		<b>9527</b>	<b>4011</b>	<b>13538</b>
<b>2. Area Development (Land Preparation)</b>					
(a)	Survey, cutback and promotion of root suckers		4707	0	4707
(b)	Alignment and digging of pits 0.45x0.45x0.45	1111 @6.00	13710	0	13710
	<b>Total</b>		<b>18417</b>	<b>0</b>	<b>18417</b>
(a)	Natural fertilizer (Neen cake/ Castor cake)	1111 @5.00	0	13699	13699
	<b>Total</b>		<b>0</b>	<b>13699</b>	<b>13699</b>
<b>3.SMC Works</b>					
(a)	Check wall/ retaining wall/ checkdam (all pucca only)	Compensatory	16589	32313	48902
(b)	Contour trench 2Mx45Cmx30Cm as per Rs.17.00/ rmt (300 trench)	600 rmt	13540	0	13540
	<b>Total</b>		<b>30129</b>	<b>32313</b>	<b>62442</b>

Section					
	Barbed wire fencing/Protection Treanch	L.S	4710	53104	57814
	Seed sowing and planting of Prosopis along the fence		1502	710	2212
		<b>Total</b>	<b>6212</b>	<b>53814</b>	<b>60026</b>
		<b>Sub total of 0 year</b>	<b>64285</b>	<b>103837</b>	<b>168122</b>
<b>1st Year</b>					
(a)	Maintenance of nursery (April to june)	1222	5112	510	5622
(b)	Transport of seedling of plantation	1111	27675	579	28254
(c)	Planting with khamna of Min 1m dia	1111	8619	0	8619
(d)	Transport of seedling of casualty replacement	111	299	66	365
(e)	3 weeding cum soil working	1111	35101	0	35101
(f)	Support watering 5 times @ 3.25		16977	30819	47795
(g)	Protection/ tending operation		6320	0	6320
(h)	Tending to natural vegetation		1738	0	1738
(i)	Contigency		0	1738	1738
	<b>Total for 1st Year</b>	<b>101841</b>	<b>33712</b>	<b>135552</b>	
<b>2nd Year</b>					
(a)	2 Weeding & soild working		15856	0	15856
(b)	20% Casualty replacement, transport and planting	111+111	314	1562	1876
(c)	Natural fertilizer (neem cake/ caster cake) etc	Rs.5/ plant	0	15931	15931
(d)	Support watering 3 times @ 3.25		12155	17032	29187
(e)	Protection/ tending operation		6030	0	6030
	<b>Total for 2nd Year</b>	<b>34355</b>	<b>34525</b>	<b>68880</b>	
<b>3rd Year</b>					
(a)	2 Weeding & soild working		18402	0	18402
(b)	10% Casualty replacement, transport and planting	111	168	767	935
(c)	Natural fertilizer (neem cake/ caster cake) etc	Rs.5/ plant	0	19109	19109
(d)	Support watering 3 times @ 3.25		4561	6740	11302
(e)	Protection & maintenance of fencing/ tending operation	L.S	8512	0	8512
	<b>Total for 3rd year</b>	<b>31643</b>	<b>26616</b>	<b>58260</b>	
<b>4th year</b>					
(a)	1 Weeding & soil working		6790	0	6790
(b)	Protection & Maintenance of fencing/ Tending operation	L.S	6060	0	6060
	<b>Total for 4th year</b>	<b>12850</b>	<b>0</b>	<b>12850</b>	
<b>5th Year</b>					
	Protection & maintenance of fencing/ tending operation	L.S	8286	0	8286
	<b>Total for 5th year</b>	<b>8286</b>	<b>0</b>	<b>8286</b>	
<b>6th Year</b>					
Date	Protection & maintenance of fencing/ tending operation	L.S	9759	0	9759

		<b>Total for 6th year</b>	<b>9759</b>	<b>0</b>	<b>9759</b>
Year					
	Protection & maintenance of fencing/ tending operation	L.S	8931	0	8931
		<b>Total for 7th year</b>	<b>8931</b>	<b>0</b>	<b>8931</b>
8th Year					
	Protection & maintenance of fencing/ tending operation	L.S	8331	0	8331
		<b>Total for 8th year</b>	<b>8331</b>	<b>0</b>	<b>8331</b>
9th Year					
	Protection & maintenance of fencing/ tending operation	L.S	7881	0	7881
		<b>Total for 9th year</b>	<b>7881</b>	<b>0</b>	<b>7881</b>
10th Year					
	Protection & maintenance of fencing/ tending operation	L.S	7580	0	7580
		<b>Total for 10th year</b>	<b>7580</b>	<b>0</b>	<b>7580</b>
		<b>TOTAL</b>	<b>295742</b>	<b>198690</b>	<b>494432</b>

Note:-

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

Place :- Patan

Date :- 25/06/ 2024

  
**Deputy Conservator of Forest**  
**Patan Forest Division Patan**

Detailed scheme of Compensatory Afforestation to be carried out in Non-Forest land to be diverted for  
 Proposal for :- Diversion of 188. Ha Forest Land of Village Hazira & Suvali of Ta.Choryasi Dist.Surat for  
 Development of Port back up Facility At.Adani Hazira port Ltd.

CA Area 188.00 Ha

Daily wages Rate Rs. 462.00/-

Year	Hectare	Rate (Rs.)	Amount (Rs.)
0 Year	188.00	184934	34767630
1 <sup>st</sup> Year	188.00	162662	30580531
2 <sup>nd</sup> Year	188.00	89544	16834272
3 <sup>rd</sup> Year	188.00	81564	15334032
4 <sup>th</sup> Year	188.00	19275	3623700
5 <sup>th</sup> Year	188.00	13258	2492429
6 <sup>th</sup> Year	188.00	16590	3118976
7 <sup>th</sup> Year	188.00	16076	3022250
8 <sup>th</sup> Year	188.00	15829	2975833
9 <sup>th</sup> Year	188.00	15762	2963256
10 <sup>th</sup> Year	188.00	15918	2992584
Total		631412	118705494
Supervision Charges 20 %	20%	126282	23741099
Grand Total		757694	142446593

Place :- Patan

Date :- 25/06/ 2024

  
 Deputy Conservator of Forest  
 Patan Forest Division Patan