## Annexure -19

# Compensatory Afforestation Scheme for Double Degraded Forest Area under FCA Proposals

Diversion of Forest Land of 20.5812 Hac. for forest clearance for Erection of 66KV Tower line form exist 66KV Uchchhal substation to Proposed Kukarmunda Pumping station. (Vyara Division 20.5812 ha)

Detailed scheme of Compensatory Afforestation for Double Degraded Forest area 42.00 ha. To be carried out in lieu of 20.5812 ha. of Forest land to be diverted in Tapi District.

1. Details of Degraded Forest Land.

District	Taluka	Range	Division	Village	Survey No.	Compartment No.	Coupe No.	Compensato Afforestatio Area (Ha.)
Tapi	Uchachhal	Nesueast	Vyara	*Gavan	70	155, 154	6Pt, 13Pt, 17Pt	
,,	"	>>	>>	Fulumaran	11	195	16Pt	42.00
>>	,,	Nesuwest	"	Bhitkhurd		208	15Pt	

2. Description of Area.

Soil type	Black Clay
Topography	More or less flat, Hilly
Slope	Plain
Whether the area is bearing any root stock of Vegetation	Yes / No

3. Name of Plantation Programme: Compensatory Afforestation Scheme for Double Degraded Forest Areas acquired under FCA proposals for as also for CAMPA & NPV project plantations.

# 4. Schedule of Plantation Programme:

- (i) The Compensatory Afforestation on Double degraded forest land area would be started by Deputy Conservator of Forest Tapi Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforesatation will be done in 42.00 ha. Area. The total afforestation cost will be about Rs.2,19,10,560/- Executive Engineer, (Const.) GETCO, Navsari, Dist. Navsari 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:

Sr. No.	Details	ompensatory Afforesatation are as Follows :  Specification				
a	General Details	The C.A. will be taken under Compensatory Afforesatation for double degraded forest Areas. The prevailing wages rate is 441.00 per day.				
b	Spacement	3 x 3 mtr., 1111 plants per ha.				
С	Species to be planted (No.	Species	Plants	Plants Height		
	of Plants per ha.)	Khair	200	65 cm		
		Teak	300	Stump of minimum 6 cm girth		
		Bamboo	100	65 mc		
		Behedo, Biyo, Arduso	100	90 mc		
		Sadad, Arjun Sadad, Kilai	100	90 cm		
		Aashitro, Sitafal, Karmda, Ragat-rohano	100	50 cm		
		etc. Sisam, Garmalo, Billi, Asan, Sargvo etc	100	65 cm		
		Tans, Kusum, Kalam, Amla, Karanj & Others		75 cm		
		Total	1111			
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.				
е	Site Preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the mont of Nov-Dec. Alignment & pit digging 45 x 45 x 4 cms. will be carried out in the month of Dec-Jan.				
f	Plantation Method	Polypot raised plants will be planted durin monsoon.				
g	Soil & Moisture Conservation Works	<ul> <li>(i) Pucca structure like Check dam, check wall retaining wall</li> <li>(ii) Contour trenches 2.00 x 0.45 x 0.30, 30 Nos/ha. will be dug along the contour line. The dug out soil will be heaped on the down</li> </ul>				
ward side. Gully plugging & Nala Busing the loose stone available in the						

will be carried out as per requirement. Seeds of Acacia and thorny Etc. will be planted during monsoon in the upper side of nala as

		per suitability.			
h	Protection Trench				
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be 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, Cutkacks, thinning etc. (as per specie specific requirement) will be carried out at the again as per prescribed in the working plan.			
1	Proposed monitoring mechanism	<ul> <li>(i) A plantation register to be maintained.</li> <li>(ii) Monitoring is to be done as per the following norms.</li> <li>Forester – 100%</li> <li>RFO – 100%</li> <li>ACF – 20%</li> <li>DCF – 10%</li> <li>(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.</li> <li>(iv) The collar girth is also to be reordered 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 4<sup>th</sup> year.</li> <li>(vii) Third party monitoring mechanism is also in the State and if the plantation in the sample selected, it will also be monitored by the third party selected for this purpose.</li> </ul>			
m	Regeneration cleaning	Promotion of root suckers.			
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.			

(Puncet Nayyar,IFS)
Dy. Conservator of Forest
Vyara

The Compensatory Afforestation scheme at the cost of Rs.2,19,10,560/- is technically and administrative approved by the undersigned.

(Puncet Nayyar,IFS)
Dy. Conservator of Forest
Vyara

#### Annexure-3(1)

Compensatory Afforestration Scheme of Non Forest land Village Kapadbandh, Ta.Songadh.

Daily wages Rs:-462.00

Diversion of Forest Land of 20.5812 Hac. for forest clearance for Erection of 66KV Tower line form exist 66KV Uchchhal substation to Proposed Kukarmunda Pumping station. (Vyara Division 20.5812 ha)

Spacements= 3m x 3m

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 Seedling = 1333 seedling/ ha

Polypot size:-15cm x 25cm x200

Item of Work	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery		-		
(a) Cost of soil, manure, seeds,water,fartillizer, insecticides, impements,rent of lands. Shade etc (including 10 % for casuality replacement)	1222	0	2194	2194
(b) Labour:- Preparation of beds, filling and arringing of bags, showing of seeds, watering shifting, weeding etc.	1222	4933	0	4933
© Seedling cost for casuality replacement in one year old (20%)	222	2632	658	3290
(d) seedling cost for casuality replacement in two vear old (10%)	111	. 0	548	548
Total.		7565	3400	10965
2. Area Development (Land Preparation)				
(a) Survey,cutback and promotion of root suckers		260	21	281
(b) Aligment and digging of pits 0.45 x 0.45 x 0.45	1111 @ 11.90	14009	0	14009
Total		14269	21	14290
(a) Natural fertilizer (neem cake/castor cake)	1111 @ 11.90	0	14009	14009
3. SMC Works				1
(a) Check wall/ retaining wall / checkdem (all puccaonly)	L.S.	13872	27537	41409
(b) Counter trech 2M x 45 Cm x 30Cm as per Rs.17.00/rmt (300 trench)	600 rmt	10558	0	10558
Total		24430	27537	51967

4. Protection		I		
(a) Barbed wire fencing	L.S.	6353	57181	63534
(b) seed sowing and planting of cuttings of Ipomea / Glaricidia along the fence		1288	554	1842
Total		7641	57735	65376
Sub Total of 0 Year		53905	102702	156607
1st year				
(a) Maintenance of nursery (April to June)	1222	3987	397	4384
(b) Transport of seedling for plantation	1111	2187	453	2640
© Planting with Khamna of Min 1 m dia	1111	6720	0	6720
(d) Transport of seedling for casually replacement	111	234	53	287
(e) 3 weeding cum soil working	1111	26200	0	26200
(f) Supoort watering 5 times @ 3.25		16748	24031	40779
(g) Protection / tending operation		5420	0	5420
(h) Tending to natural vegetation		1356	0	1356
(i) Contigency		0	1356	1356
Total for 1st year		62852	26290	89142
2nd year			20200	00142
(a) 2 weeding & soil working		14550	0	14550
(b) 20 % Casually rplecement, transport and planting	111+111	245	1217	1462
© Natural fertilizer (neem cake / caster cake) etc	Rs.5/ Plant	0	13593	13593
(d) Support watering 3 times @ 3.25		10883	15620	26503
(e) protection / tendingn operation		5873	0	5873
Total for 2nd Year	20"	31551	30430	61981
3rd year				390000000000000000000000000000000000000
(a) 2 weeding & soil working		15670	0	15670
(b) 10 % Casually replacement, transport and planting	111	131	657	788
© Natural fertilizer , neem cake etc.	Rs.5/ plant	0	14637	14637
(d) Support watering 3 times @ 3.25		2848	5607	8455
(e) Protection & maintenance of fencing / tending operation	L.S.	7905	0	7905
Total for 3rd year		26554	20901	47455
4th Year				
a) 1 weeding & soil working		8394	0	8394
b) Protection & maintenance of fencing / Tending operation	L.S.	8469	0	8469
Total for 4th year		16863	0	16863

5th Year	-			
Protection & maintenance of fencing/Tending operation	L.S.	9045	0	9045
Total for 5th year		9045	0	9045
6th Year		5545	0	9045
Protection & maintenance of fencing/Tending operation	L.S.	9599	0	9599
Total for 6th year		9599	0	9599
7th Year		-	-	9599
Protection & maintenance of fencing/Tending operation	L.S.	10163	0	10163
Total for 7th year		10163	0	10163
8th Year		10.00	-	10163
Protection & maintenance of fencing/Tending operation	L.S.	10728	0	10728
Total for 8th year		10728		1
9th Year		10726	0	10728
Protection & maintenance of fencing/Tending	L.S.	11293	0	11293
Total for 9th year		11293	0	
0th Year		11293	0	11293
Protection & maintenance of fencing/Tending peration	L.S.	11857	0	11857
otal for 10th year		11857	0	44057
5. Total		254410	180323	11857
he Cost of Supervision / subsequental lvicultureal Operations.	20 %	50882	36065	<b>434733</b> 86947
		305292	216388	521680
			5000	02100

(1) Seed sowimg along fencing towarde the inner side, and also in the plot.

(2) Planting of cutting of ipomea/ Glaricidiathe fencing towards outer side.

1 Ha.cost, Rs.521680 X 42.00 Ha. = Total Cost Rs.2,19,10,560/-

(Puneer Nayyar, IFS)

Dy.Conservator of Forest

Vyara





