# Compensary Afforestation Scheme for double degraded area

Proposal for Diversion of 0.0575 ha. Protected Forest land for the Project of construting approach road to connect karunasagar petroleum on SH-175 (Valia-Zankhvav) Raod near rundha village of Valia-taluka dist. Bharuch in Gujarat State.

Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. to be arrived out in lieu of 0.0575 ha. of Protected forest land to be diverted in Bharuch district.

## 1. Details of degraded land.

Village	Pada
Taluka	Zaghadia
Range	Zaghadia
District	Bharuch
Division	Sub Division Bharuch
Block/ Survey No/Compartment No.	New 9 (old 126 )
Area to be afforested	1.00 Ha.

#### 2. Description of Area.

Soil type	Black & Storey
Topography	Plain
Slope	Medium & Gentle
Whether the area is bearing any root stock of	Yes
Vegetation	

#### 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 Bharuch Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs.4,54,200/- Executive Engineer, Bharuch Urban Development Authority, Bharuch has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

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## 5. Technical Details:-

Technical details of Compensatory Afforestation are as Follows:

Sr.	Details	6				
No.		Specifications				
а	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.4 per				
b	Spacement	day. 3 X 3 mtr., 1111 plants per ha.				
С	Species to be planted	mo mai, 1111 plants per na.				
	(No. of plants per ha.)	Khair	200	Minimum		
	ŕ	Teak	300	planting height		
		Bamboo	100	will be 100 cm. at		
		Bahedo, Herde, Aritha	100	the time of		
		Haldu, Sadad, Arjun Sadad	100	planting. However it will		
		Bhilamo, Kadayo, Sadad, Tandol etc.	100	vary for different		
		Albizzia, Ficus, Jamun, Anjan, Neem,	100	species.		
		etc.				
		Bordi, Karanj, Khakhro & others	111			
d	Nursery Technique	Total	1111			
е	Site Preparation	of monsoon.  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 du	uring mo	nsoon.		
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, 300 Nos/ha. will be dug along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging &amp; Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plantsetc. will be planted during monsoon in the upper side of nala as per suitability.</li> </ul>				
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomeas/ Glarcidia along the fence				

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$\neg \top$		3rdyear one weeding soil working.			
j	Maintenance	It is proposed to maintain the Plantation up to ten years.			
	Subsequent silvicualtural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.			
	Proposed monitoring mechanism	<ul> <li>(i) A plantation register is to be maintained.</li> <li>(ii) Monitoring is to be done as per the following norms.  Forester - 100%  RFO - 100%  ACF - 20%  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 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 between the state and for this purpose.</li> </ul>			
m	Regeneration cleaning	the third party selected for this purpose.  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.			

Asstt. Conservator of Forest Normal Forest Sub Division Bharuch

The Compensatory Afforestation scheme at the cost of Rs.4,54,200/- is technically and administrative approved by the undersigned.

Asstt. Conservator of Forest Normal Forest Sub Division Bharuch

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### Annexure-19

Compensatory Afforestration Scheme for double degraded area under FCA proposal Proposal for grant of Compensatory

Co permission for all the process of the permission 0.0575 Ha.)

## Model No - 3

Compensatory Afforestration Scheme for double degradation area & Non Forest area acquired Under FCA

Daily wages Rs.310.40

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				
0 year	2	3	4	5
Nursery				
(a) Cost of Soil, manure, seeds, wtaer, Fertilizer, insecticides, iplements, rent of lands, shade, etc. (includung 10% for casuality replacement)	1222	0	1830	1830
(b) labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4478	232	4710
(c) Seedling cost for casuality replacement in one year old (20%)	222	1415	422	1837
(d) Seedling cost for casuality replacement in two year old (10%)	111	709	211	920
Total		6602	2695	9297
2. Area Development ( Land Preparation )				
(a) Survey, cutback and promotion of root suckers		3364	0	3364
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	9715	0	9715
Tota		13079	0	13079
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	9910	9910
Tota		0	9910	9910
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	11952	23726	35678
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9097	0	
Tota	1	21049	23726	4477
4. Protection				
(a) Barbed wire fencing	L.S.	3568	35678	3924
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1110	477	
Tota	1	4678	3615	4083

Sub Total of 0 year				
1st Year		45408	72486	117894
a) Maintenance of nursery (April to June)		75700		
Transport of seeding for plantation	1222	3435	343	3778
planting with kharrina of with 1 m dia	1111	18594	389	18983
Transport of seediling for casualty soul	1111	5791	0	5791
a moding cum soil working	111	201	44	245
cupport watering 5 times @ 3.25	1111	23583	0	23583
protection / tending operation		14430	20706	35136
g/ Fanding to natural vegetation		4649	0	4649
11/		1167	0	1167
i) Contigency		0	1167	1167
Total for 1st year		71850	22649	94499
and Year		71830		
a) 2 weeding & soil working		12669	0	12669
b) 20 % Casually replecement, transport and planting	111+111		1049	1260
c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	211	11711	11711
d) Support watering 3 times @ 3.25			13459	22836
Protection / tending operation		9377	0	5060
Total for 2nd year		5060	26219	53536
3rd Year		27317	20213	
(a) 2 weeding & soil working		12272	0	13372
(b) 10 % Casually replecement, transport and planting	111	13372	566	679
16 dilinara paga ada ata	Rs.5/ plant	113	12838	12838
(c). Natural fertilizer, neem cake etc		0	4831	8198
(e) Protection & maintenance of fencing / tending operation	L.S.	3367	0	8743
(e) Protection & Maintenance of Fernandy Fernandy operation.  Total for 3rd year		8743	18235	43830
		25595	18233	
4thYear		7304	0	7384
(a) 1 weeding & soil working	L.S.	7384	0	7298
(b) Protection & Maintenance of fencing/ Tending operation		7298	0	14682
Total for 4th year		14682	0	14002
5thYear	L.S.			7785
(a) Protection & maintenance of fencing/ tending operation		7785	0	7785
Total for 5th year		7785	0	778.
6thYear	1.0			027
(a) Protection & maintenance of fencing/ tending operation	L.S.	8271	0	827
Total for 6th year		8271	0	827
7thYear	1.6			277
(a) Distriction & maintenance of fencing/ tending operation	L.S.	8758	0	875
Total for 7th year		8758	0	875

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TOTAL with 20% Charge		286627	167507	454134
(a) The Cost of Supervision/subsequental silvicultureal Operations	20%	47771	27918	75689
SUB TOTAL	7192 377	238856	139589	378445
Total for 10th year	r	10217	0	10217
(a) Protection & maintenance of fencing/ tending operation	L.S.	10217	0	10217
10thYear				
Total for 9th year		9730	0	9730
(a) Protection & maintenance of fencing/ tending operation	L.S.	9730	0	9730
9th Year				
Total for 8th year		9243	0	9243
a) Protection & maintenance of fencing/ tending operation	L.S.	9243	0	9243
BthYear				

## 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.

Asstt. Conservator of Forest Normal Forest Sub Division Bharuch