

ANNEXURE-19

Scheme of Compensatory to be Afforestation

Details Scheme of Compansatory Afforestation to be carried out in lieu of **Diversion of 0.0412 ha Protected Forest land for Non-forest purpose for construction of approach road for factory of Troikaa Pharmaceuticals Ltd. Abhutting on SH-17 at Km.43.300. left side at Survey No.2019, 2022 & 2023 at Village: Virochannagar, Taluka: Sanand, Dist: Ahmedabad, State of Gujarat.**

Additional Information

1. Details of degraded land

Village	Navagam (Karna)
Taluka	Dholera
Range	Dholera
District	Ahmedabad
Division	Social Forestry Ahmedabad
Reserved Forest Survey No..	Old S.No.61 Pt
Area to be afforested	1.00 Ha
Working circle	Degraded Area Improvement Working Circle

2. Description of Area.

Soil type	Sandy Saline
Topography	Plain
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Searce


Details of Year Wise Break-Up requirement of fund is as under

Year	Daily / Wages-Rs.310.40	
	Area (ha)	Rate /ha
0 Year (70%)	1.00	89300
-30%	1.00	38250
Current Year (30%) (Gypsum & With Watering L.S.	1.00	181400
2nd Year With Watering	1.00	145400
3rd Year With Watering	1.00	124700
4th Year	1.00	15300
5th Year	1.00	7000
6th Year	1.00	7000
7th Year	1.00	6500
8th Year	1.00	6500
9th Year	1.00	6500
10th Year	1.00	6000
	1.00	633850
Supervision Charge 20 %	1.00	126770
Total	1.00	760620


Compensatory Afforestation will be done in 1.00 ha. Area. The total afforestation cost will be Rs.7,60,620/-

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 S.F.Ahmedabad Division as Soon 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.7,60,620/- Troikaa Pharmaceuticals Ltd ,Village: Virochannagar, Taluka: Sanand, Dist: Ahmedabad 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 Plantation will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The daily Wage rate is calculated at 304.20/-.		
b	Spacement	3 X 3 mtr.& 3 X 6 , 1666 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Salvadora Persica (Pilu)	1100	Minimum planting height 100 cm.& girth at collar above 5 c.m. at the time of planting. However it will vary for different species.
		Suaeda nudiflpra (Ut morad)	516	
		Thespesia Populnea(Paras Pipal)	50	
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) Sapar trenches 0.45 x 0.45 x 21.00 mNo. 60 /ha. will be dug along the contour line. (ii) Van Talavadi/ Percolation tank (iii) Earthen bund towards seaside to restrict seawater during high tide		
h	Protection Trench	Tranch fencing 120x60x60Cm, Seed sowing on the heaped soil		
i	Silvicultural Operations	1styear 20 % Casuality replcement and Watering,Maintance of three weeding soil working, Support watering will be provided five times. 2nd year two weeding soil working.10 % Casuality replcement Support watering will be provided four times. 3rdyear one weeding soil working. Support watering will be provided three times.		
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 style="padding-left: 40px;">Forester – 100%</p> <p style="padding-left: 40px;">RFO – 100%</p> <p style="padding-left: 40px;">ACF – 20%</p> <p style="padding-left: 40px;">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 Suaeda nudi flora.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4th year.</p> <p>(vii) Third party monitoring mechanism as is vauge in the State.</p>
m	Regeneration cleaning	Only cleaning.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.


 (Dr. T. Karuppasamy)
Deputy Conservator of Forest
Social Forestry Division
Ahmedabd

The Compensatory Afforestation scheme at the cost of **Rs. 7,60,620** /- is technically and administrative approved by the undersigned.


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Deputy Conservator of Forest
Social Forestry Division
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		Daily wages Rs.310.40		
Spacements = 3 m x 3 m for tree species & 6 m x 3 m for (quinquintial)shrub Species				
1666 seedling / Ha				
1st year replacement 20 % = 1999 seedling /ha				
2nd year replacement 20 % = 1666+333 seedling /ha				
Total Seedlings = 2000 seedling /ha				
Polypot size : 15 cm x 25 cm x 200				
Item of work	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Raising of seedlings in 15×25×200 size polypors up tp March, cost of containers, Soil, Manure, Seeds, Water, Fertilizer, insecticide, implementation rent of land etc.	1999	2886	6094	8980
(b) Filling & arranging of bags preparation of beds, sowing of seeds, watering, shifting weeding etc.	1999	6922	0	6922
(c) Purchase of seeds grass herbs and preparation of grass fellets.	1999	193	257	450
Total		10001	6351	16352
2. Area Development (Land Preparation)				
length Saper trench(21x21 Rmt) 42x42 & 44x44 Rmt Double Time @ 21.60 width 45x 30 cm depth	1800 Rmt	38880	0	38880
van Talavadi	35000/ha.	35000	0	35000
Digging of pits @ 5.15	1666	8580	0	8580
45 cm x 30 cm x 42 m Seed Sowing on Saper rench	2000/ha.	800	1200	2000
Contingency	965/ha.	970	0	970
Total		84230	1200	85430
(a) Gipsam fertilizer	2000/ha.	500	1500	2000
Total		500	1500	2000
3. Protection				
(a) trench fencing (120x60x100 C.M.) @ 77.45	300 Rmt/ha.	23235	0	23235
(b) Seed sowing	500 ha	200	300	500
Total		23435	300	23735
Sub Total of 0 year		118166	9351	127517
1st Year				
(a) 30 × Maintenance of seedlings from April- June	1999	700	200	900
(b) Transport of seedling for plantation	1999	5595	4000	9595
(c) Planting with khamna of Min 1 m dia	1666	6414	0	6414
(d)Transport of seediling for casualty replacement	333	1098	500	1598
(e) 3 weeding cum soil working	1666	7130	0	7130
(f) Support watering 5 times		90000	60000	150000
(g) Protection / tending operation		4612	0	4612
(h) Contingency		0	1150	1150
Total for 1st year		115549	65850	181399

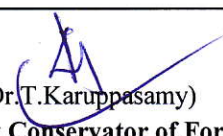
2nd Year				
(a) 2 weeding & soil working		12567	0	12567
(b) 20 % Casually replcement, transport and planting	333	209	1041	1250
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11620	11620
(d) Support watering 4 times		72000	48000	120000
(e) Protection / tending operation				
Total for 2nd year		84776	60661	145437
3rd Year				
(a) 2 weeding & soil working		13264	0	13264
(b) 10 % Casually replcement, transport and planting	111	112	561	673
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12735	12735
(d) Support watering 3 times		54000	36000	90000
(e) Protection & maintenance of fencing / tending operation	L.S.	8000	0	8000
Total for 3rd year		75376	49296	124672
4thYear				
(a) 1 weeding & soil working		7325	0	7325
(b)Protection& Maintenance of fencing/tending operation	L.S.	8000	0	8000
Total for 4th year		15325	0	15325
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	7000	0	7000
Total for 5th year		7000	0	7000
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	7000	0	7000
Total for 6th year		7000	0	7000
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	6500	0	6500
Total for 7th year		6500	0	6500
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	6500	0	6500
Total for 8th year		6500	0	6500
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	6500	0	6500
Total for 9th year		6500	0	6500
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	6000	0	6000
Total for 10th year		6000	0	6000
SUB TOTAL :		537423	194209	633850
The Cost of Supervision/subsequent silvicultural Operations	20%	107485	38842	126770
		644908	233051	760620

Note :- (1) Seed sowing along Trench fencing towards the inner side, and also in the Saper Trench& Boundry trench

(2) Compensatory afforestation will be done in 1.00 ha. Area.

(3) The Total afforestation cost will be Rs. 7,60,620/-

Total Cost Rs. :7,60,620/-


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