Compensary Afforestation Scheme for Double DegradedArea

Diversion of 1.308 protected forest land for construction of dedicated freight corridor the land is being acquired by Ministry of Railway in village Chadotra-Palanpur (ROB 6-PCL)

Detailed scheme of Compensatory Afforestation for Double degraded Area 3.00 ha. to be carried out in lieu of 1.308 ha. of forest land to be diverted in Social Forestry Division, Banaskantha-Palanpur.

1. Details of degraded land.

Village	Rampurvadala
Taluka	Palanpur
Range	Palanpur
District	Banaskantha
Division	Banaskantha
Block/ Patal, Compartment No.,Survey No	5/ pt
Areato be afforested	3.00 Ha.
Working circle	Reboishment and watershed development working circle.

2. Description of Area.

Soil type	Hard Murram
Topography	Medium
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Yes

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Double degraded area

4. Schedule of Plantation Programme:-

- (i) The Compensatory Afforestation on Double degraded Areawould be started by Dy.Conservator of Forest Banaskantha Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 3.00 ha. area. The total afforestation cost will be about **Rs. 16,57,336** /- Dedicated Freight Corridor Corporation of India Ltd., 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.			Specific	cations	
a	General Details	The C.A. will be taken u degraded area. The prev	nder Compensa	atory Afforestation es 324.50 per day.	for Double
b	Spacement	3 X 3 mtr., 1111 plants p		r r r r r r r r r r r r r r r r r r r	
С	Species to be				
	planted (No. of plants per ha.)	Speaces	Number of Tree	Minimum planting height (in cm.)	Minimum planting collar growth (in cm.)
		Khair	25	65	Minimum
	= =	Kanji	250	75	planting collar
		Boradi	150	65	growth 1c.m.
	E E	Salai	25	75	diameter at the
	ja .	Gunda	25	75	time of planting.
		Bael	50	50	time or planting.
		Bamboo	100	65	
		Ardusa	100	90	
		Ragat Royado	25	50	
		Garmalo	200	65	
		Khakhro (Butea monosperma), Dudh kudi (Wrightia), Aval (Cassia auriculata)	161	50	
		Total	1111		
d e	Nursery Technique Site Preparation	Nine months old polypomonsoon. The malformed rootstock be cleaned in the month of	present in the of Nov-Dec. Al	area will be cutba	ack & the site wil
		cms. will be carried out in			
f	Plantation Method	Polypot raised plants will			
g	Soil & Moisture Conservation Works	(i) Pucca structure lik (ii) Contour trenches 2 contour line. the d Gully plugging, N as per requiremen planted during more	2.00 x 0.45 x 0 ug out soil wil ala Banding & t. Seeds of Jat	30, 300 Nos/ha.will be heaped on the percolation tank stropha, Agave pla	Il be dug along the e down ward side will be carried ou ntsetc. will be
h	Protection	Rarbad wing faming	Sood - '	per side of nata as	per suitability.
	Trench	Barbed wire fencing, Ipomea/Glarcidia along th	e fence		
i	Silvicultural Operations	1 st year three weeding soin needed. 2 nd year two weeding soil was 3 rd year one weeding s	working.	pport watering w	ill be provided in
j	Maintenance	It is proposed to maintain	the Plantation u	p to ten years.	

k	Subsequent silvicualtural	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.
t	Operation	
1	Proposed monitoring mechanism	 (i) A plantation register is to be maintained. (ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% DCF – 10%
		(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.
		(iv) The collar girth is also to be reordered at the end of each year.
		(v) At the end of maintenance period, the area is aimed at full stocking and
	*	pole crop girth for all the species, except bamboo.
	, e	(vi) Bamboo would be of the harvestable size by the end of 4 th year.
		(vii)Third party monitoring mechanism is also in the State and if the plantationis in the sample selected, it will also be monitored by the third party selected for this purpose.
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 Banaskantha, Palanpur

The Compensatory Afforestation scheme at the cost of Rs. 16,57,336 /- is technically and administrative approved by the undersigned.

Dy. Conservator of Forest Banaskantha, Palanpur

Model No - 3

Compensatory Afforestration Scheme for Duble dgraded area

			Daily wage	Do 224 F
Spacements = 3 m x 3 m			Daily wages	S RS.324.50
1111 seedling / ha				
1st year replacement 10 % = 111 seedling / ha				
2nd year replacement 20 % = 111+111 seedling / ha		elica sensity years		
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	N/Indanial	
1	2	Labour 3	Material 4	Total 5
0 year Nursery				
(a) Cost of soil, ,manure, seeds, water,				
fartillizer, insecticides, implements, rent of lands	1222	0	1913	1913
Shade, etc. (including 10 % for casuality replacement)				
(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 casuality replacement in one year old (20%)	222	4.470		ana suussa sii
(d) Seedling cost for casuality replacement in two year old (10%)	222	1478	442	1920
Total	111	740	220	960
2. Area Development (Land Preparation)		6899	2817	9716
(a) Survey, cutback and promotion of root suckers				
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45		3518	0	3518
Total	1111 @ 6.00	10156	0	10156
		13674	0	13674
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10360	10360
Total		0	10360	10360
3. SMC Works				
(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.	9512	0	9512
Total		22007	24804	46811
4. Protection				
(a) Barbed wire fencing per 1 rmt. 457/- Rs.	252 rmt.	50673	76008	126681
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the	ne	1161	498	1659
fence Total				1000
Total for 0 year		51834	76506	128340
		94414	114487	208901
1st Year				
(a) Maintenance of nursery (April to June)	1222	3590	359	3949
(b) Transport of seedling for plantation	1111	1970	407	2377
(c) Planting with khamna of Min 1 m dia	1111	6055	0	. 6055
(d)Transport & planting of seediling for casualty replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	23600	0	23600
(f) Support watering 5 times @ 3.25		15085	21647	36732
(g) Protection / tending operation		4883	0	
(h) Tending to natural vegetation		1220	0	4883
(i) Contigency			1000	1220
Total for 1st year		0	1220	1220
,		56613	23679	80292

Item of work 2nd Year	Qty.	Labour	Material	Total
(a) 2 weeding & soil working		13108	0	12100
(b) 20 % Casually replecement, transport and planting	111+111	221	1097	13108
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	12243	12243
(d) Support watering 3 times @ 3.25	110.07 plant	9803	14070	23873
(e) Protection / tending operation		5290	0	5290
Total for 2nd year		28422	27410	55832
3rd Year		20422	27410	55652
(a) 2 weeding & soil working		14116	0	14116
(b) 10 % Casually replecement, transport and planting	111	119	591	710
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13185	13185
(c) Support watering 1 times @ 3.25	Trois plant	3520	5051	8571
(d) Protection & maintenance of fencing / tending operation	L.S.	7120	0	7120
Total for 3rd year	1.0.	24875	18827	43702
4thYear		24075	10027	43/02
(a) 1 weeding & soil working		7560	0	7500
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7629		7560
Total for 4th year	L.O.		0	7629
5thYear		15189	0	15189
Protection & maintenance of fencing/ tending operation	L.S.	0100		0.100
Total for 5th year	L.O.	8138	0	8138
SthYear		8138	0	8138
Protection & maintenance of fencing/ tending operation	L.S.	20.40		
otal for 6th year	L.S.	8646	0	8646
'thYear		8646	0	8646
Protection & maintenance of fencing/ tending operation	1.0	0.155		
otal for 7th year	L.S.	9155	0	9155
thYear		9155	0	9155
Protection & maintenance of fencing/ tending operation				
otal for 8th year	L.S.	9663	0	9663
thYear		9663	0	9663
rotection & maintenance of fencing/ tending operation				
otal for 9th year	L.S.	10172	0	10172
OthYear		10172	0	10172
rotection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
otal for 10th year	yer waters are more than the	10681	0	10681
ubTotal		275968	184403	460371
otal cost of supervision/subsequentalsilvicultureal operations	20%	55194	36881	92074
rand Total		331162	221284	552445
ote:-				302440

Note:-

(1) Seed sowing along fencing towards the inner side.(2) Planting of cutting of ipomea//Glaricidia along the fencing towards outer side

Rate Structure for Compensatory Afforestation Scheme

,	Daily Wages: Rs. 324.50	Grand Total		18	445951		552445			1337854		1657336
¥	Daily Wag	20% Add		17	74325		92074			222976		276223
		Total		16	371626		460371			1114878		1381113
		7th Year 8th Year 9th Year 10th Year		15	5086		10681			15258		32043
		9th Year	;	14	5086		10172	And to the standard of the sta		15258		30516
		8th Year	2	2	5086		9663			15258		28989
		7th Year	4.0	7.	5086		9155	The state of the s		15258		27465
		6th Year	14	=	5086		8646			15258		25938
		5th Year	10	2	5086		8138			15258		24414
		4th Year	6		10126		15189			30378		45567
		3rd Year	00		31216		43702			93648		131106
		2nd Year	7		42948		55832			128844		167496
		1st Year	9		66911		80292			200733		240876
		0 Year	5		189909		208901		pwa.	569727	Y.	626703
		Hactor	4		1.00		1.00			3.0000		3.0000
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NB:(1)	(1)	
	For Different Years the rate	For Different Years the rate shown for B has been dervied
	from A as Follows.	
	0 Year-B=A +10% of A	6 Year-B=A +70% of A
	1 Year-B=A +20% of A	7 Year-B=A +80% of A
	2 Year-B=A +30% of A	8 Year-B=A +90% of A
.,	3 Year-B=A +40% of A	9 Year-B=A +100% of A
1	4 Year-B=A +50% of A	10 Year-B=A +110% of A
	5 Year-B=A +60% of A	
NB:(2)-	2)-	
In co	In column 17 the additional 20% is lowards the cost of	is lowards the cost of
supe	supervision/subsequentalsilvicultureal operations	ureal operations

Dv. Conservator of Forests Banaskantha, Palanpur

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Total Cost Rs.

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Dy. Conservator of Forests Banaskantha, Palanpur

CERTIFICATE

This is to certify that the compensatory afforestation scheme attached herewith for 3.00 ha in Rampuravadala Village, Ta. Palanpur, Survey No. 5pt. in lieu 1.308 ha. Diversion of protected forest land for construction of dedicated freight corridor the land is being acquired by Ministry of Railway in village Chadotra-Palanpur with the guidelines issued vide additional Principal Chief Conservator of Forests, Land Gujarat State Gandhinagar Letter No. land/31/b/147-216/2016-17, Dated.06/04/2016 and same is here by approved technically.

Palanpur

Date: 8/2/2021

Dy.Conservator of Forests, Banaskantha-Palanpur