Compensary Afforestation Scheme for Double DegradedArea

Diversion of 2.35 protected forest land for construction of dedicated freight corridor the land is being acquired by Ministry of Railway in village Jodanapura-Palanpur (ROB 12-PCL)

Detailed scheme of Compensatory Afforestation for Double degraded Area 5.00 ha. to be carried out in lieu of 2.35 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	5.00 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 5.00 ha. area. The total afforestation cost will be about Rs. 29,37,162 /- 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:

b c	Spacement Species to be planted (No. of plants per ha.)	The C.A. will be taken ur degraded area. The preva 3 X 3 mtr., 1111 plants possible. Speaces Khair Kanji Boradi Salai Gunda Bael	ailing wage rate		Minimum planting collar growth (in cm.) Minimum
С	Species to be planted (No. of	Speaces Khair Kanji Boradi Salai Gunda Bael	Number of Tree 25 250 150 25	planting height (in cm.) 65 75	planting collar growth (in cm.) Minimum
	planted (No. of	Khair Kanji Boradi Salai Gunda Bael	25 250 150 25	planting height (in cm.) 65 75	planting collar growth (in cm.) Minimum
	planted (No. of	Khair Kanji Boradi Salai Gunda Bael	25 250 150 25	planting height (in cm.) 65 75	planting collar growth (in cm.) Minimum
		Kanji Boradi Salai Gunda Bael	250 150 25	75	
		Boradi Salai Gunda Bael	150 25		1 (* 11.
		Boradi Salai Gunda Bael	150 25	65	planting collar
		Gunda Bael	25		growth 1c.m.
		Gunda Bael		75	diameter at the
		Bael		75	time of planting.
	*		50	50	
	8.7	Bamboo	100	65	
	_	Ardusa	100	90	
		Ragat Royado	25	50	1
		Garmalo	200	65	
	¥	Khakhro (Butea	161	50	-
		monosperma), Dudh kudi (Wrightia), Aval (Cassia auriculata)	1111		
d	Nursery	Nine months old polyp	ot raised plan	its will be plante	ed at the onset of
	Technique	monsoon.	\	•	
e	Site Preparation	The malformed rootstock	nresent in the	e area will be cuth	pack & the site will
	one i reparation	be cleaned in the month	of Nov-Dec. A	lignment & pit di	
		cms. will be carried out in			
	Plantation Method	Polypot raised plants will	be planted dur	ring monsoon.	*
g	Soil & Moisture	(i) Pucca structure lik	ke Check dam,	check wall, retain	ing wall
	Conservation	(ii) Contour trenches	$2.00 \times 0.45 \times 0$.30, 300 Nos/ha.w	rill be dug along the
	Works	6.50 85%	dug out soil w	ill be heaped on th	ne down ward side.
	ar i			-	will be carried out
2			_	•	antsetc. will be
		1. The state of th			
		planted during mo			
10000	Protection Trench	Barbed wire fencing, Ipomea/Glarcidia along the		g And planting	g of cuttings of
i	Silvicultural	1 st year three weeding so	oil working, S	upport watering v	will be provided if
	Operations	needed.	<i>3,</i>		1
	A 1000	2 nd year two weeding soil	working		
	e.	3 rd year one weeding soil			
j	Maintenance	It is proposed to maintain	the Plantation	up to ten years.	a

k	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.
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. (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. 29,37,162 /- 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 wages Rs.324.50

Spacements = 3 m x 3 m			Daily wage:	s Rs.324.5
1,111 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
0 year	2	3	4	5
Nursery				
(a) Cost of soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0	1913	191
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4681	242	492:
(c) Seedling cost for casuality replacement in one year old (20%)	222	1478	442	1920
(d) Seedling cost for casuality replacement in two year old (10%) Total	111	740	220	960
		6899	2817	9716
Area Development (Land Preparation) (a) Survey, cutback and promotion of root suckers				
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 0 0 0 0	3518	- 0	3518
	1111 @ 6.00	10156	0	10156
Total		13674	0	13674
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10360	10360
Total		0	10360	10360
3. SMC Works	1			
(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.	310 rmt.	62335	93502	155837
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1161	498	1659
Total		63496	94000	157496
Total for 0 year		106076	131981	238057
1st Year			101001	200007
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	4883
h) Tending to natural vegetation		1220	0	1220
i) Contigency		0	1220	1220
otal for 1st year		56613		
		50013	23679	80292

2nd Year	Qty.	Labour	Material	Total
(a) 2 weeding & soil working		10100		
(b) 20 % Casually replecement, transport and planting	111+111	13108		
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	221	1097	131
(d) Support watering 3 times @ 3.25	113.37 plant	0	12243	sunder substitutions
(e) Protection / tending operation		9803	14070	2387
Total for 2nd year		5290	0	5290
3rd Year		28422	27410	55832
(a) 2 weeding & soil working		14116		
(b) 10 % Casually replecement, transport and planting	111		0	14116
(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	119	591	710
(c) Support watering 1 times @ 3.25	13.57 plant	0	13185	13185
(d) Protection & maintenance of fencing / tending operation	L.S.	3520	5051	8571
Total for 3rd year	L.S.	7120	0	7120
1thYear		24875	18827	43702
a) 1 weeding & soil working		7500		
b) Protection & Maintenance of fencing/ Tending operation	L.S.	7560	0	7560
otal for 4th year	L.S.	7629	0	7629
thYear		15189	0	15189
Protection & maintenance of fencing/ tending operation	1.0			
otal for 5th year	L.S.	8138	0	8138
thYear		8138	0	8138
rotection & maintenance of fencing/ tending operation				
otal for 6th year	L.S.	8646	0	8646
thYear		8646	0	8646
rotection & maintenance of fencing/ tending operation	· \			
otal for 7th year	L.S.	9155	0	9155
hYear		9155	0	9155
otection & maintenance of fencing/ tending operation				
otal for 8th year	L.S.	9663	0	9663
hYear		9663	0	9663
otection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
tal for 9th year thYear		10172	0	10172
				-
otection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
tal for 10th year		10681	0	10681
bTotal		287630	201897	489527
tal cost of supervision/subsequentalsilvicultureal operations	20%	57526	40379	97905
and Total		345156	242276	507400
te:-		040100	242276	587432

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

Dy. Conservator of Forests Banaskantha, Palanpur Model-3-1111 Final @310.40 (2)

Rate Structure for Compensatory Afforestation Scheme

1	Daily Wages: Rs. 324.50		477758	587432	2388792	2937162
	Daily Wag 20% Add	-	77	97905	398132	489527
	Total	40	398132	489527	1990660	2447635
	6th Year 7th Year 8th Year 9th Year 10th Year	7	5086	10681	25430	53405
	9th Year	14	5086	10172	25430	20860
	8th Year	13	5086	9663	25430	48315
	7th Year	12	5086	9155	25430	45775
	6th Year	11	5086	8646	25430	43230
	5th Year	10	5086	8138	25430	40690
	4th Year	6	10126	15189	50630	75945
	3rd Year	8	31216	43702	156080	218510
	1st Year 2nd Year	7	42948	55832	214740	279160
	1st Year	9	66911	80292	334555	401460
	0 Year	2	216415	238057	1082075	1190285
	Hactor	4	1.00	1.00	5.0000	5.0000
Model-3 1111 Pt/Ha.	Rate	က	Normal Rate par 1.00 Ha.	Increased Rate par 1.00 Ha .by 10% Year	A Normal Rate	Increased by 10% Year
Model	. 0	1 2	4	В	N A	Δ

NB:(1)	:(1)	
	For Different Years the rate	For Different Years the rate shown for B has been denied
	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
	4 Year-B=A +50% of A	10 Year-B=A +110% of A
	5 Year-B=A +60% of A	
NB:	NB:(2)-	
In C	In column 17 the additional 20% is lowards the cost of	is lowards the cost of
sup	supervision/subsequentalsilvicultureal operations	ureal operations



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Total Cost Rs.

Model: 3 S.0000 238037 1190285 O Year Std Year 4th Year 6th Year 6th Year 7th Year 8th Year 10th Year	Name of works	Model No.	Area	Rate per							Amount				1		
Model-3 S.0000 238057 1190285 1190285 0 0 0 0 0 0 0 0 0			H.A.	Нас.	0 Year	1st Year	2nd Year		4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Voor	900	Total Rs.
Columbia Soc 292	0 Year 70 % Adv.work. Ist Year Operation.	Model-3	5.0000	238057	1190285	0			0		0	0				20%	
ce 55832 0 279160 0 <th< td=""><td>Ist Year 30 % Advance work Current year plantation</td><td>1</td><td></td><td>80292</td><td>0</td><td>401460</td><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td><td>238057</td><td>1428342</td></th<>	Ist Year 30 % Advance work Current year plantation	1		80292	0	401460			0	0	0	0				238057	1428342
ce 43702 0 0 218510 0 75945 0	2nd Year operation Maintanance of one year old plantation.		2-77.51	55832	0	0			0	0	0	0	0			26709	481752
15189	3rd Year operation Maintanance of 2 years old plantation.			43702	0	0	0		0	0	0	0				25832	334992
8138 0 0 0 40690 0<	4th year operation Maint.of 3 years old plantation.			15189	0	0	0	0	75945	0	0	0		0	0	43702	262212
8646 0 0 0 43230 43230 0 <t< td=""><td>5th year operation Maint.of 4 years old plantation.</td><td></td><td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>8138</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>40690</td><td>C</td><td></td><td></td><td></td><td></td><td>15189</td><td>91134</td></t<>	5th year operation Maint.of 4 years old plantation.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8138	0	0	0	0	0	40690	C					15189	91134
9155 0	6th year operation Maint.of 5 years old plantation.			8646	0	0	0	0	0		43220			0	0	8138	48828
9663 0	7th year operation Maint.of 6 years old plantation.			9155	0	C	6				10704		0	0	0	8646	51876
10172 0 <td>8th year operation Maint.of 7 years old plantation.</td> <td></td> <td></td> <td>9663</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0 0</td> <td>45775</td> <td>0</td> <td>0</td> <td>0</td> <td>9155</td> <td>54930</td>	8th year operation Maint.of 7 years old plantation.			9663	0	0	0	0	0	0	0 0	45775	0	0	0	9155	54930
10681 0 <td>9th year operation Maint.of 8 years old plantation.</td> <td></td> <td></td> <td>10172</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>CTC0#</td> <td>0 09805</td> <td>0 (</td> <td>9663</td> <td>57978</td>	9th year operation Maint.of 8 years old plantation.			10172	0	0	0	0	0	0	0		CTC0#	0 09805	0 (9663	57978
489527 1190285 401460 279160 218510 75945 40690 43230 45775 48315 50860	10th year operation Maint of 9 years old plantation.			10681	0	0	0	0	0	0	0	0	0		23400	7/101	61032
	Total			489527	1190285	401460	279160	218510	75945	40690	43230	45775	48315	20860	53405	489527	2937162



Dy. Conservator of Forests Banaskantha, Palanpur

CERTIFICATE

This is to certify that the compensatory afforestation scheme attached herewith for 5.00 ha in Rampuravadala Village, Ta. Palanpur, Survey No. 5pt. in lieu 2.35 ha. Diversion of protected forest land for construction of dedicated freight corridor the land is being acquired by Ministry of Railway in village Jodanapura-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