Compensary Afforestation Scheme for double degraded area

Diversion of 0.1540 ha. Protected forest land for Erection of 11 KV overhead electric line in forest area for electrification of 1 nos of AG connections At Karsangadh village of Mendarda Taluka, District Junagadh.

Detailed scheme of Compensatory Afforestation for degraded area 01.00 ha. to be carried out in lieu of 0.1540 ha. of PF forest land to be diverted in Gir Somnath district.

1. Details of degraded land.

Village	Karsangadh
Taluka	Mendarda
Range	Devaliya
District	Junagadh
Division	Gir West Division, Junagadh
Block/Patal, Compartment No	Survey No. 87 PF
Area to be afforested	1.00 Ha.
Working circle	

2. Description of Area.

Description of Area.	
Soil type	Black & Red Sandy
Topography	Plain
	Predominantly Flat
Slope : Leaving any root stock of Vegetation	Yes
Whether the area is bearing any root stock of Vegetation	100

- .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 starred by as Dy.Conservator of Forest Gir West Division, Junagadh as early 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.6,96,440/- (Six Lakh Ninety Six Thousand Four Hundred Fourty Only.) Deputy Engineer (O & M) PGVCL Mendarda Sub Divison. 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:

Si No	Details	Spe	ecification	ns
a	Details	The C.A. will be taken under double land on degraded For 310.40 per day.	Compensa est Areas.	atory Afforestation for The prevailing wage rate is
b	- p. coment	3 X 3 mtr., 1111 plants per ha		
C	- Franco to oc planted	Khair	200	65 cm
	(No. of plants per ha.)	Kadaya	100	75 cm
		Bael	100	65 cm
		Sadad	100	90 cm
		Salai	70	75 cm
		Baheda	50	90 cm
		Kanji	150	75 cm
		Arjun Sadad	70	90 cm
		Aonla	100	75 cm
		Bamboo	101	65 cm
		Safed Khakhro (Butea	70	50 cm
		monsoperma var, lutea),Anjan (Hardwickia binata), Dhauro (Anogeissus sericea var.nummularia) Total	1111	
d	Nursery Technique	Nine months old polypot raised	plants wi	Il be planted at the onset of
e	Site Preparation	The malformed rootstock presen	at in the e	
C	Site i reparation	site will be cleaned in the month digging 45 x 45 x 45 cms. will	n of Nov-I	Dec. Alignment & pit
f	Plantation Method	Polypot raised plants will be p	lanted du	iring monsoon.
g	Soil & Moisture Conservation Works	(i) Pucca structure like Che (ii) Contour trenches 2.00 x (along the contour line. th down ward side. Gully pl loose stone available in requirement. Seeds of Ja planted during monsoon suitability.	ck dam, ch 0.45 x 0.30 e dug out lugging & the area v atropha, A n in the u	neck wall, retaining wall 0. 300 Nos/ha. will be dug soil will be heaped on the Nala handing using "I"he will be carried out as per agave plants. etc. will be pper side of nala as per
h	Protection "French	Barbed wire fencing, Seed sow		lanting of cuttings of
i	Silvicultural Operations	Ipomea/ Glarcidia along the fer lstyear three weeding soil word Provided if needed.	rking, Su	pport watering will be
		2'd year two weeding soil working	_	
		3' ^d year one weeding soil working		

		Les maintain the Plantation up to ten ears.
j	Maintenance	It is proposed to maintain the Plantation up to ten ears. Cleanings, cutbacks, thinning etc. (as per species specific requirement)
k	Subsequent	Cleanings, cutbacks, thinning etc. (as per species species species appearance).
	silvicualttiral Operation	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%t (iii) The recruits of survival etc. are maintained in the plantation register on it periodical basis, which is updated at the end the September and March each Year. (iv) The collar girth is also to be recorded 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 4th year. (vii) Third party monitoring mechanism is also in the State and if the plantation is in the sample selected. it will also be monitored by
		the third party selected for this purpose.
in	Regeneration cleaning	Cut-back and promotion of root suckers.
n	Silvicrilture & other activities	Only afforastation aimed plantation will be taken up, as the area falls under degrated forest land.

Deputy Conservator of Forest Gir West Division, Junagadh

The Compensatory Afforastation scheme at the cost th Rs.6,96,440/- is technically and administrative approved by the undersigned.

Compensatory Afforestration Scheme for double degraded area under FCA proposal Diversion of 0.1647 ha. Protected forest land for Erection of 11 KV overhead electric line in forest area for electrification of 1 nos of AG connections At Karsangadh village of Mendarda

Taluka, District Junagadh.

Daily wages Rs.310.40

Spacomonto - 2 2			Daily wages	5 KS.31U.
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	2	3	4	5
0 year				
Nursery	1000		1830	183
(a) Cost of soil, ,manure, seeds, water,	1222	0	1630	103
fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)				
(b) labour: Preparation of beds, filling and arranging of	1222	4478	232	471
bags, showing of seeds, watering shifting, weeding etc.			100	4.00
(c) Seedling cost for casuality replacement in one year old (20%)	222	1415	422	183
(d) Seedling cost for casuality replacement in two year old (10%)	111	708	210	918
Total		6601	2694	929
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1222@6.00	9715	0	9715
Total	-	13080	0	13080
(a) Natural fertilizer (Neem cake/ Castor cake)	1111@ 5.00	0	9910	9910
Total		0	9910	9910
3. SMC Works				
(a) forest pond	L.S.	0	0	0
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt	600 rmt.	9098	0	9098
(300 trench)	-	9098	0	9098
Total	-	9090		
4. Protection	1 0 420	75000	112520	189200
(a) Barbed wire fencing	L.S. 430	75680	113520	
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the		1110	476	1586
fence (c) Brush Wood	CMt	0	0	0
~		76790	113996	190786
Total	-	105569	126600	232169
Total for 0 year		100000	12000	
1st Year	1,000		0.40	0777
(a) Maintenance of nursery (April to June)	1222	3434	343	3777
(b) Transport of seedling for plantation	1111	1884	389	2273
(c) Planting with khamna of Min 1 m dia	1111	5792	0	5792
(d)Transport & planting of seediling for casualty replacement	111	402	44	446
(e) 3 weeding cum soil working	1111	22574	0	22574
(f) Support watering 5 times @ 3.25		14430	20706	35136
(g) Protection / tending operation		8076	0	8076
(h) Tending to natural vegetation		1168	0	1168
(i) Contigency		0	1168	1168
Total for 1st year		57760	22650	80410

2nd Year	Qty.	Labour	Material	Total
(a) 2 weeding & soil working		1050=		1055
(b) 20 % Casually replecement, transport and planting	444.444	12537	0	12537
(c) Natural fertilizer (neem cake / caster cake) etc.	111+111	211	1050	1261
(d) Support watering 3 times @ 3.25	Rs.5/ plant	0	11712	11712
(e) Protection / tending operation		9377	13459	22836
Total for 2nd year		9624	0	9624
3rd Year		31749	26221	57970
(a) 2 weeding & soil working		10500		10500
(b) 10 % Casually replecement, transport and planting		13502	0	13502
(b) Natural fertilizer, neem cake etc.	222	113	566	679
(c) Support watering 1 times @ 3.25	Rs.5/ plant	0	12613	12613
		3367	4831	8198
(d) Protection & maintenance of fencing / tending operation	L.S.	11402	0	11402
Total for 3rd year		28384	18010	46394
4thYear				
(a) 1 weeding & soil working		7232	0	7232
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	13437	0	13437
Total for 4th year		20669	0	20669
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	15766	0	15766
Total for 5th year		15766	0	15766
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	18426	0	18426
Total for 6th year		18426	0	18426
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	21461	0	21461
Total for 7th year		21461	0	21461
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	24919	0	24919
Total for 8th year		24919	0	24919
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	28854	0	28854
Total for 9th year		28854	0	28854
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	33325	0	33325
Total for 10th year		33325	0	33325
SubTotal		386882	193481	580363
Total cost of supervision/subsequentalsilvicultureal operations	20%	77376	38696	116073
Grand Total		464258	232177	696436
Say Amount Rs.				696440

Note:-

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

Annexure - 1

Proposed area for double degradation afforestation as well as for CAMPA (CA) projects for barren degraded forest areas

S.No.	Name of FCA proposal Division	Proposed territorial divisions for double degradation afforestation	Remarks
1	2	3	4
1	Gir (West) Division, Junagadh	Gir (West) Division, Junagadh	
			,

Date: 24 /09/2020 Place: Junagadh

Patrak-3

Compensatory Afforestration Scheme for double degraded area under FCA proposal Diversion of 0.1647 ha. Protected forest land for Erection of 11 KV overhead electric line in forest area for electrification of 1 nos of AG connections At Karsangadh village of Mendarda Taluka, District Junagadh.

Spacements = 3 m x 3 m			Daily wage:	s Rs.310.4
1111 seedling / ha				
1st year replacement 10 % = 111 seedling / ha				
2nd year replacement 10 % = 111 seedling / ha				
2nd year replacement 20 % = 111+111 seedling / ha				<u> </u>
3rd year replacement 10 % = 111 seedling / ha				
Total Seedlings = 1333 seedling / ha				
Polypot size: 15 cm X 25 cm X 200				
ltem 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	1830	1830
(b) labour : Preparation of beds, filling and arranging of	1222	4478	232	4710
bags, showing of seeds, watering shifting, weeding etc. (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 (20%)		708	210	918
Total	111			
		6601	2694	9295
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1222@6.00	9715	0	9715
Total		13080	0	13080
(a) Natural fertilizer (Neem cake/ Castor cake)	1111@ 5.00	0	9910	9910
Total		0	9910	9910
3. SMC Works				
(a) forest pond	L.S.	0	0	0
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9098	0	9098
Total		9098	0	9098
4. Protection			,	
(a) Barbed wire fencing	L.S. 430	75680	113520	189200
(b) Seed sowing and planting of cuttings of Ipomeal Glaricidia along the		1110	476	1586
fence (c) Brush Wood	CMt	0	0	0
Total		76790	113996	190786
Total for 0 year		105569	126600	232169
1st Year	-			
(a) Maintenance of nursery (April to June)	1222	3434	343	3777
(b) Transport of seedling for plantation	1111	1884	389	2273
	1111	5792	0	5792
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(e) 3 weeding cum soil working	1111		0	22574
(f) Support watering 5 times @ 3.25		14430	20706	35136
(g) Protection / tending operation		8076	0	8076
(h) Tending to natural vegetation		1168	0	1168
(i) Contigency		57760	1168	1168
Total for 1st year		37700	22650	80410

Item of work 2nd Year (a) 2 weeding & soil working (b) 20 % Casually replecement, transport and planting	Qty. 111+111 Rs.5/ plant	12537 211	0	12537
(b) 20 % Casually replecement, transport and planting			0	12537
(b) 20 % Casually replecement, transport and planting		211		1004
(a) Making Landille (Rs.5/ plant		1050	1261
(c) Natural fertilizer (neem cake / caster cake) etc.		0	11712	11712
(d) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		9624	0	9624
Total for 2nd year		31749	26221	57970
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(a) 2 weeding & soil working		13502	0	13502
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(b) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12613	12613
(c) Support watering 1 times @ 3.25		3367	4831	8198
(d) Protection & maintenance of fencing / tending operation	L.S.	11402	0	11402
Total for 3rd year		28384	18010	46394
4thYear				
(a) 1 weeding & soil working		7232	0	7232
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	13437	0	13437
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5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	15766	0	15766
Total for 5th year		15766	0	15766
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	18426	0	18426
Total for 6th year		18426	0	18426
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	21461	0	21461
Total for 7th year		21461	0	21461
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	24919	0	24919
Total for 8th year		24919	0	24919
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	28854	0	28854
Total for 9th year		28854	0	28854
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	33325	0	33325
Total for 10th year		33325	0	33325
SubTotal		386882	193481	580363
Total cost of supervision/subsequentalsilvicultureal operations	20%	77376	38696	116073
Grand Total		464258	232177	696436
Say Amount Rs.				696440

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. 310.40	r 7th Year 8th Year 9th Year 10th Year Total 20% Add Grand Total	12 13 14 15 16 17 18	39 11923 13115 14427 15869 445609 89122 534731	26 21461 24919 28854 33325 580363 116073 696436	39 11923 13115 14427 15869 445609 89122 534731	26 21461 24919 28854 33325 580363 116073 696436
Dail						30363 1
	ar 10th Y	15				
	r 9th Yea	14				
	8th Yea	13				
	7th Year	12		ģ		
	6th Year	11	10839	18426	10839	18426
	5th Year	10	9854	15766	9854	15766
	4th Year	6	13779	20669	13779	50669
	3rd Year	8	33138	46394	33138	46394
	2nd Year	7	44592	57970	44592	57970
	1st Year	9	62009	80410	62009	80410
	0 Year	2	211064	232169	211064	232169
	Hactor	4	1.00	1.00	1.00	1.00
Model-3 1111 Pt/Ha.	Rate	3	Normal Rate par 1.00 Ha.	Increased Rate par 1.00 Ha .by 10% Year	Normal Rate	Increased by 10% Year
del-		2	∢	ω	4	ω
<u>م</u> ا م	Sr.	-		-	X	7

	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
		4 Year-B=A +50% of A	10 Year-B=A +110% of A
		5 Year-B=A +60% of A	
	NB:(2)-	(2)-	
	20 1	In column 17 the additional 20% is lowards the cost of	6 is lowards the cost of
	Supe	supervision/subsequentalsilvicultureal operations	Iltureal operations
-	-		

Name of works	Model No.	Area	Rate per							Amount						
		H.A.	Нас.	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	20%	Total Rs.
0 Year 70 % Adv.work. Ist Year Operation.	Model-3	1.00	232169	232169	0	0	0	0	0	0	0	0	0	0	46434	278603
Ist Year 30 % Advance work Current year plantation			80410	0	80410	0	0	0	0	0	0	0	0	0	16082	96492
2nd Year operation Maintanance of one year old plantation.			57970	0	0	57970	0	0	0	0	0	0	0	0	11594	69564
3rd Year operation Maintanance of 2 years old plantation.			46394	0	0	0	46394	0	0	0	0	0	0	0	9279	55673
4th year operation Maint.of 3 years old plantation.			20669	0	0	0	0	20669	0	0	0	0	0	0	4134	24803
5th year operation Maint.of 4 years old plantation.			15766	0	0	0	0	0	15766	0	0	0	0	0	3153	18919
6th year operation Maint.of 5 years old plantation.			18426	0	0	0	0	0	0	18426	0	0	0	0	3685	22111
7th year operation Maint.of 6 years old plantation.			21461	0	0	0	0	0	0	0	21461	0	0	0	4292	25753
8th year operation Maint.of 7 years old plantation.			24919	0	0	0	0	0	0	0	0	24919	0	0	4984	29903
9th year operation Maint.of 8 years old plantation.			28854	0	0	0	0	0	0	0	0	0	28854	0	5771	34625
10th year operation Maint of 9 years old plantation.			33325	0	0	0	0	0	0	0	0	0	0	33325	9999	39990
Total			580363	232169	80410	57970	46394	20669	15766	18426	21461	24919	28854	33325	116073	696436
	_														Total	696440

