

Compensary Afforestation Scheme for double degraded area

Diversion of 0.4590 ha.RF of Forest land for RCC/Black tarred Road in forest area for connecting to Rampara-Mandorana Road At Hadmatiya Gir Village of Talala Taluka Gir Somnath District.

Detailed scheme of Compensatory Afforestation for degraded area 01.00 ha. to be carried out in lieu of 0.4590 ha. of RF, forest land to be diverted in Gir Somnath district.

1. Details of degraded land,

Village	Jasapur
Taluka	Talala
Range	Talala
District	Gir Somnath
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.

Soil type	Black & Red Sandy
Topography	Plain
Slope	Predominantly Flat
Whether the area is bearing any root stock of Vegetation	Yes

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 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.4,69,400/- (Four Lakh Sixty Nine Thousand Four Hundred Only.) Pravinbhai Gokalbhai Banderi R/O Village Hadmatiya Gir. 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 C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.																									
b	Spacement	3 X 3 mtr., 1111 plants per ha.																									
c	Species to be planted (No. of plants per ha.)	<table> <tr> <td>Khair</td><td>200</td><td rowspan="12">Minimum planting Height will be 100 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Kadaya</td><td>100</td></tr> <tr> <td>Bael</td><td>100</td></tr> <tr> <td>Sadad</td><td>100</td></tr> <tr> <td>Salai</td><td>70</td></tr> <tr> <td>Baheda</td><td>50</td></tr> <tr> <td>Kanji</td><td>150</td></tr> <tr> <td>Arjun Sadad</td><td>70</td></tr> <tr> <td>Aonla</td><td>100</td></tr> <tr> <td>Bamboo</td><td>101</td></tr> <tr> <td>Safed Khakhro (Butea monosperma var, lutea), Anjan (Hardwickia binata), Dhauro (Anogeissus sericea var. nummularia)</td><td>70</td></tr> <tr> <td>Total</td><td>1111</td></tr> </table>	Khair	200	Minimum planting Height will be 100 cm. at the time of planting. However it will vary for different species.	Kadaya	100	Bael	100	Sadad	100	Salai	70	Baheda	50	Kanji	150	Arjun Sadad	70	Aonla	100	Bamboo	101	Safed Khakhro (Butea monosperma var, lutea), Anjan (Hardwickia binata), Dhauro (Anogeissus sericea var. nummularia)	70	Total	1111
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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-																									
f	Plantation Method	Polypot raised plants will be planted during monsoon.																									
g	Soil & Moisture Conservation Works	(i) Pucca structure like Check dam, check wall, retaining wall (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 & Nala handing using "I" the loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plants. etc. will be planted during monsoon in the upper side of nala as per suitability.																									
h	Protection "French	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence																									
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be Provided if needed. 2 ^d year two weeding soil working. 3 ^d year one weeding soil working.																									

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j	Maintenance	It is proposed to maintain the Plantation up to ten ears.
k	Subsequent silvicultural Operation	Cleanings, 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	(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 recruits of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of 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 4 th 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.
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.


Deputy Conservator of Forest
Gir West Division, Junagadh

The Compensatory Afforestation scheme at the cost of Rs.4,69,400/- is technically and administratively approved by the undersigned.


Deputy Conservator of Forest
Gir West Division, Junagadh


Compensatory Afforestation Scheme for double degraded area under FCA proposal Diversion of 0.4590 ha.RF of Forest land for RCC/Black tarred Road in forest area for connecting to Rampara-Mandorana Road At Hadmatiya Gir Village of Talala Taluka Gir Somnath District.

Spacemnts = 3 m x 3 m		Daily wages Rs.310.40		
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				
1	Qty.	Labour	Material	Total
0 year	2	3	4	5
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty 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 casualty replacement in one year old (20%)				
	222	1415	422	1837
(d) Seedling cost for casualty replacement in two year old (10%)				
	111	708	210	918
Total				
		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.	0	0	0
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence				
		1110	476	1586
(c) Brush Wood				
	CMt	0	0	0
Total				
		1110	476	1586
Total for 0 year				
		29889	13080	42969
1st Year				
(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) Contingency				
		0	1168	1168
Total for 1st year				
		57760	22650	80410
2nd Year				

Item of work	Qty.	Labour	Material	Total
(a) 2 weeding & soil working		12537	0	12537
(b) 20 % Casually replcement, transport and planting	111+111	211	1050	1261
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	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
3rd Year				
(a) 2 weeding & soil working		13502	0	13502
(b) 10 % Casually replcement, transport and planting	222	113	566	679
(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
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		311202	79961	391163
Total cost of supervision/subsequent silvicultural operations	20%	62240	15992	78233
Grand Total		373442	95953	469396
Say Amount Rs.				469400

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of Ipomea//Gliricidia along the fencing towards outer side


Dy. Conservator of Forests
Gir West Division, Junagadh

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: / /2020
Place: Junagadh


Deputy Conservator of Forests
Gir (west) Division, Junagadh

Patrak-3

Compensatory Afforestation Scheme for double degraded area under FCA proposal Diversion of 0.4590 ha RF of Forest land for RCC/Black tarred Road in forest area for connecting to Rampara-Mandorana Road At Hadmatiya Gir Village of Taluka Taluka Gir Somnath District.

Daily wages Rs.310.40

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Total Seedlings = 1333 seedling / ha

Polypot size : 15 cm X 25 cm X 200


Item of work	Qty.	Labour	Material	Total
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Nursery				
(a) Cost of soil, manure, seeds, water, fertilizer, insecticides, implements, rent of lands, Shade, etc. (including 10 % for casualty replacement)	1222	0	1830	1830
(b) labour : Preparation of beds, filling and arranging of bags, sowing of seeds, watering shifting, weeding etc.	1222	4478	232	4710
(c) Seedling cost for casualty replacement in one year old (20%)	222	1415	422	1837
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Total		6601	2694	9295
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(a) Survey, cutback and promotion of root suckers		3365	0	3365
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1222@5.00	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				
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(c) Brush Wood	CMt	0	0	0
Total		1110	476	1586
Total for 0 year		29889	13080	42969
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(g) Protection / tending operation		8076	0	8076
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Total for 1st year		57760	22650	80410
2nd Year				

Model-S-1111 Final @310.40 (2)

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7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	21461	0	21461
Total for 7th year		21461	0	21461
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Protection & maintenance of fencing/ tending operation	L.S.	24919	0	24919
Total for 8th year		24919	0	24919
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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		311202	79961	391163
Total cost of supervision/subsequent silviculture operations	20%	62240	15992	78233
Grand Total		373442	95953	469396
Say Amount Rs.				469400

Note :-

- (1) Seed sowing along fencing towards the inner side.
- (2) Planting of cutting of Ipomea//Gliricidia along the fencing towards outer side


 Dy. Conservator of Forests
 Gir West Division, Junagadh

Rate Structure for Compensatory Afforestation Scheme

Model-3 1111 Pt/Ha.

Daily Wages : Rs. 310.40

Sr. No.	Rate	Hactor	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	Normal Rate par 1.00 Ha.	1.00	39064	67009	44592	33138	13779	9854	10839	11923	13115	14427	15869	273609	54722	328331
B	Increased Rate par 1.00 Ha. by 10% Year	1.00	42969	80410	57970	46394	20669	15766	18426	21461	24919	28854	33325	391163	78233	469396
2	A Normal Rate	1.00	39064	67009	44592	33138	13779	9854	10839	11923	13115	14427	15869	273609	54722	328331
B	Increased by 10% Year	1.00	42969	80410	57970	46394	20669	15766	18426	21461	24919	28854	33325	391163	78233	469396
Total Cost Rs.															469400	

NB:(1)

For Different Years the rate shown for B has been derived 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)-

In column 17 the additional 20% is towards the cost of supervision/subsequent agricultural operations

Dy. Conservator of Forests
Gir West Division, Junagadh

Name of works	Model No.	Area	Rate per	Amount										Total Rs.			
				0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year		10th Year	20%	
0 Year 70 % Adv.work. 1st Year Operation.	Model-3	1.00	42969	42969	0	0	0	0	0	0	0	0	0	0	0	8594	51563
1st Year 30 % Advance work Current year plantation			80410	0	80410	0	0	0	0	0	0	0	0	0	0	16082	96492
2nd Year operation Maintenance of one year old plantation.			57970	0	0	57970	0	0	0	0	0	0	0	0	0	11594	69564
3rd Year operation Maintenance of 2 years old plantation.			46394	0	0	0	46394	0	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	0	4134	24803
5th year operation Maint.of 4 years old plantation.			15766	0	0	0	0	0	15766	0	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	0	3685	22111
7th year operation Maint.of 6 years old plantation.			21461	0	0	0	0	0	0	0	21461	0	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	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	6665	39990	
Total			391163	42969	80410	57970	46394	20669	15766	18426	21461	24919	28854	33325	78233	469396	
															Total	469400	

Dy. Conservator of Forests
Gir West Division, Junagadh