

## Compensary Afforestation Scheme for double degraded area

Diversion of 2.0074 ha. PF & RF land for laying of Underground drinking water supply pipeline parallel to roads. Under Pranchi Group Water Supply Scheme for supply of drinking water to 77 village & 1 town of Talala, Veraval and Sutrapada taluka, Gir Somnath District

Detailed scheme of Compensatory Afforestation for degraded area Diversion of 2.0074 ha. PF & RF land for laying of Underground drinking water supply pipeline parallel to roads. Under Pranchi Group Water Supply Scheme for supply of drinking water to 77 village & 1 town of Talala, Veraval and Sutrapada taluka, Gir Somnath District

### 1. Details of degraded land.

Village	Hadmatiya
Taluka	Talala
Range	Talala
District	Gir Somnath
Division	Gir West Division, Junagadh
Block/Patal, Compartment No	Survey No. 134
Area to be afforested	5.00 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 5.00 ha. area. The total afforestation cost will be about <b>Rs.14.35.320/- (Fourteen Lakh Thirty Five Thousand Three Hundred Twenty Only.)</b> Executive Engineer, P.H.W. Division, Guj.W/S. & S. Bord Veraval 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:

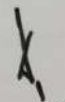
Sr. No.	Details	Specifications		
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.		
b	Spacement	3 X 3 mtr., 1111 plants per ha.		
c	Species to be planted (No. of plants per ha.)	Khair	1000	65 cm
		Kadaya	500	75 cm
		Bael	500	65 cm
		Sadad	500	90 cm
		Salai	350	75 cm
		Baheda	250	90 cm
		Kanji	750	75 cm
		Arjun Sadad	350	90 cm
		Aonla	500	75 cm
		Bamboo	505	65 cm
		Safed Khakhro (Butea monosperma var, lutea), Anjan (Hardwickia binata), Dhauro (Anogeissus sericea var.nummularia)	350	50 cm
Total		5555		
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, <b>Agave</b> 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 <sup>st</sup> year three weeding soil working, Support watering will be Provided if needed. 2 <sup>d</sup> year two weeding soil working. 3 <sup>d</sup> year one weeding soil working.		



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	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <table><tr><td>Forester</td><td>— 100%</td></tr><tr><td>RFO</td><td>— 100%</td></tr><tr><td>ACF</td><td>--- 20%</td></tr><tr><td>DCF</td><td>— 10%</td></tr></table> <p>(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.</p> <p>(iv) The collar girth is also to be recorded 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 bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4<sup>th</sup> year.</p> <p>(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.</p>	Forester	— 100%	RFO	— 100%	ACF	--- 20%	DCF	— 10%
Forester	— 100%									
RFO	— 100%									
ACF	--- 20%									
DCF	— 10%									
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.14,35,320/- is technically and administrative approved by the undersigned.

  
Deputy Conservator of Forest  
Gir West Division, Junagadh

Compensatory Afforestation Scheme for double degraded area under FCA proposal Diversion of 2.0074 ha. PF & RF land for laying of Underground drinking water supply pipeline parallel to roads. Under Pranchi Group Water Supply Scheme for supply of drinking water to 77 village & 1 town of Talala, Veraval and Sutrapada taluka, Gir Somnath District

Daily wages Rs.310.40

Spacemnts = 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
<b>0 year</b>				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	6110	0	9151	9151
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	6110	22388	1159	23547
(c) Seedling cost for casualty replacement in one year old (20%)	1110	7073	2114	9187
(d) Seedling cost for casualty replacement in two year old (10%)	555	3541	1053	4594
<b>Total</b>		<b>33002</b>	<b>13477</b>	<b>46479</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers		16822	0	16822
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	5555 @ 6.00	48576	0	48576
<b>Total</b>		<b>65398</b>	<b>0</b>	<b>65398</b>
(a) Natural fertilizer (Neem cake/ Castor cake)	5555 @ 6.00	0	49548	49548
<b>Total</b>		<b>0</b>	<b>49548</b>	<b>49548</b>
<b>3. SMC Works</b>				
(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.	45489	0	45489
<b>Total</b>		<b>45489</b>	<b>0</b>	<b>45489</b>
<b>4. Protection</b>				
(a) Barbred wire fencing	1000 RMT	176000	264000	440000
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		5548	2382	7930
<b>Total</b>		<b>181548</b>	<b>266382</b>	<b>447930</b>
<b>Total for 0 year</b>		<b>325437</b>	<b>329407</b>	<b>654844</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	6110	17171	1717	18888
(b) Transport of seedling for plantation	5555	9422	1946	11368
(c) Planting with khamna of Min 1 m dia	5555	28961	0	28961
(d)Transport & planting of seediling for casualty replacement	555	1007	221	1228
(e) 3 weeding cum soil working	5555	112874	0	112874
(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



Item of work	Qty.	Labour	Material	Total
(i) Contingency		0	1168	1168
<b>Total for 1st year</b>		<b>193109</b>	<b>25758</b>	<b>218867</b>
<b>2nd Year</b>				
(a) 2 weeding & soil working		12537	0	12537
(b) 20 % Casually replcement, transport and planting	555+555	1054	5249	6303
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0	58557	58557
(d ) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		9624	0	9624
<b>Total for 2nd year</b>		<b>32592</b>	<b>77265</b>	<b>109857</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		13502	0	13502
(b) 10 % Casually replcement, transport and planting	555	567	2827	3394
(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
<b>Total for 3rd year</b>		<b>28838</b>	<b>20271</b>	<b>49109</b>
<b>4thYear</b>				
(a) 1 weeding & soil working		7232	0	7232
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	13437	0	13437
<b>Total for 4th year</b>		<b>20669</b>	<b>0</b>	<b>20669</b>
<b>5thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	15766	0	15766
<b>Total for 5th year</b>		<b>15766</b>	<b>0</b>	<b>15766</b>
<b>6thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	18426	0	18426
<b>Total for 6th year</b>		<b>18426</b>	<b>0</b>	<b>18426</b>
<b>7thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	21461	0	21461
<b>Total for 7th year</b>		<b>21461</b>	<b>0</b>	<b>21461</b>
<b>8thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	24919	0	24919
<b>Total for 8th year</b>		<b>24919</b>	<b>0</b>	<b>24919</b>
<b>9thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	28854	0	28854
<b>Total for 9th year</b>		<b>28854</b>	<b>0</b>	<b>28854</b>
<b>10thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	33325	0	33325
<b>Total for 10th year</b>		<b>33325</b>	<b>0</b>	<b>33325</b>
<b>SubTotal</b>		<b>743396</b>	<b>452701</b>	<b>1196097</b>
<b>Total cost of supervision/subsequent silvicultureal operations</b>	20%	148679	90540	239219
<b>Grand Total</b>		<b>892075</b>	<b>543241</b>	<b>1435316</b>
<b>Say Amount Rs.</b>				<b>1435320</b>

Note :-


- (1) Seed sowing along fencing towards the inner side.
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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	

  
Deputy Conservator of Forests  
Gir (West) Division, Junagadh

Date:     /     /2020  
Place: Junagadh



### Schedule -3

Compensatory Afforestation Scheme for double degraded area under FCA proposal Diversion of 2.0074 ha. PF & RF land for laying of Underground drinking water supply pipeline parallel to roads. Under Pranchi Group Water Supply Scheme for supply of drinking water to 77 village & 1 town of Talala, Veraval and Sutrapada taluka, Gir Somnath District

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Protection & maintenance of fencing/ tending operation	L.S.	15766	0	15766
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Protection & maintenance of fencing/ tending operation	L.S.	21461	0	21461
<b>Total for 7th year</b>		<b>21461</b>	<b>0</b>	<b>21461</b>
<b>8thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	24919	0	24919
<b>Total for 8th year</b>		<b>24919</b>	<b>0</b>	<b>24919</b>
<b>9thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	28854	0	28854
<b>Total for 9th year</b>		<b>28854</b>	<b>0</b>	<b>28854</b>
<b>10thYear</b>				
Protection & maintenance of fencing/ tending operation	L.S.	33325	0	33325
<b>Total for 10th year</b>		<b>33325</b>	<b>0</b>	<b>33325</b>
<b>SubTotal</b>		<b>743396</b>	<b>452701</b>	<b>1196097</b>
<b>Total cost of supervision/subsequent silviculture operations</b>	20%	148679	90540	239219
<b>Grand Total</b>		<b>892075</b>	<b>543241</b>	<b>1435316</b>
<b>Say Amount Rs.</b>				<b>1435320</b>

Note :-

- (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  
Gir West Division, Junagadh



# Rate Structure for Compensatory Afforestation Scheme

Daily Wages : Rs. 310.40

Model-3 1111 Pt/Ha.

Model-3 1111 Pt/Ha.																	
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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	A	Normal Rate par 1.00 Ha.	1.00	595314	182389	84506	35077	13779	9854	10839	11923	13115	14427	15869	987092	197418	1184510
	B	Increased Rate par 1.00 Ha. by 10% Year	1.00	654844	218867	109857	49109	20669	15766	18426	21461	24919	28854	33325	1196097	239219	1435316
2	A	Normal Rate	1.00	595314	182389	84506	35077	13779	9854	10839	11923	13115	14427	15869	987092	197418	1184510
	B	Increased by 10% Year	1.00	654844	218867	109857	49109	20669	15766	18426	21461	24919	28854	33325	1196097	239219	1435316
Total Cost Rs.														1435320			


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 silvicultural operations

  
Dv. Conservator of Forests  
Gir West Division, Junagadh

Name of works	Model No.	Area	Rate per Hac.	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	654844	654844	0	0	0	0	0	0	0	0	0	0	0	130969	785813
1st Year 30 % Advance work Current year plantation			218867	0	218867	0	0	0	0	0	0	0	0	0	0	43773	262640
2nd Year operation Maintenance of one year old plantation.			109857	0	0	109857	0	0	0	0	0	0	0	0	0	21971	131828
3rd Year operation Maintenance of 2 years old plantation.			49109	0	0	0	49109	0	0	0	0	0	0	0	0	9822	58931
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	39990
10th year operation Maint.of 9 years old plantation.			33325	0	0	0	0	0	0	0	0	0	0	33325	6665	239219	1435316
Total			1196097	654844	218867	109857	49109	20669	15766	18426	21461	24919	28854	33325	239219	1435320	

  
Dy. Conservator of Forests  
Gir West Division, Junagadh