

Compensary Afforestation Scheme for Non forest area

Detailed scheme of Compensatory Afforestation to be carried out in lieu of 3.4134 ha. protected Forest land for laying of Drinking water pipeline from Sindhrot intekwell to Kalali junction by Vadodara Municipal Corporation, Vadodara in Vadodara dostrict in S.F.Division, Vadodara in Gujarat

Detailed scheme of Compensatory Afforestation for non forest area 3.4134 ha. To be carried out in lieu of 3.4134 ha. of Non forest land to be diverted in Vadodara district.

1. Details of non forest area.

Village	Rayantalavadi
Taluka	Waghodia
Range	Waghodia
District	Vadodara
Division	Social Forestry Division Vadodara
Block/ Patal, Compartment No.	246 old 96.
Area to be afforested	3.4134 Ha.
Working circle	

2. Description of Area.

Soil type	Moderately plain porous
Topography	Plain
Slope	Medium & Gentle
Whether the area is bearing any root stock of Vegetation	Yes

3. Name of Plantation Programme:-
Compensatory Afforestation Scheme for Non forest area.**4. Schedule of Plantation Programme:-**

- | | |
|------|--|
| (i) | The Compensatory Afforestation on Non forest area would be started by Dy.Conservator of Forest Social Forestry Division,Vadodara as early as possible after the proposal is formally approved. |
| (ii) | Compensatory Afforestation will be done in 4.00 ha. Area. The total afforestation cost will be about Rs.1812000/- (Rupees Eighteen Lacs Twelve thousand Only) Executive Engineer, Water Supply (projects) Vadodara Municipal Corporation 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:-

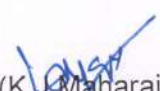
Technical details of Compensatory Afforestation are as Follows:

Sr. No.	Details	Specifications																		
a	General Details	The C.A. will be taken under Compensatory Afforestation for Non forest land 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>Amiyar (Acacia Tomentosa)</td><td>150</td><td rowspan="7">Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Nilgiri (Eucalptus sp.)</td><td>150</td></tr> <tr> <td>Desi baval (Acacia Arabica)</td><td>150</td></tr> <tr> <td>Bordi (Zizyphus jujube)</td><td>250</td></tr> <tr> <td>Arjun Sadad (Terminalia arjuna)</td><td>150</td></tr> <tr> <td>Aritha (Sapindus laurifolius)</td><td>150</td></tr> <tr> <td>Goras Ambali (Pithecellobium dulce)</td><td>111</td></tr> <tr> <td colspan="2">Total</td><td>1111</td></tr> </table>	Amiyar (Acacia Tomentosa)	150	Minimum planting height will be 100 cm. at the time of planting. However it will vary for different species.	Nilgiri (Eucalptus sp.)	150	Desi baval (Acacia Arabica)	150	Bordi (Zizyphus jujube)	250	Arjun Sadad (Terminalia arjuna)	150	Aritha (Sapindus laurifolius)	150	Goras Ambali (Pithecellobium dulce)	111	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-Jan.																		
f	Plantation Method	Polypot raised plants will be planted during monsoon.																		
g	Soil & Moisture Conservation Works	Pucca structure like Check dam, check wall, retaining wall, Vantalavadi																		
h	Protection Trench	Barbed wire fencing, and Trench fencing																		
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed. 2 nd year two weeding soil working. 3 rd year one weeding soil working.																		
j	Maintenance	It is proposed to maintain the Plantation up to ten years.																		
k	Subsequent silvicultural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.																		

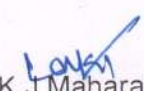
l	Proposed monitoring mechanism	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>DCF – 10%</p> <p>(iii) The results of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of September and March each year.</p> <p>(iv) The collar girth is also to be reordered 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) 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>
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. Non

Place : Vadodara

Date : 27/02/2020


 (K.J. Maharaja)
 Deputy Conservator of Forest,
 Social Forstry Division, Vadodara

The Compensatory Afforestation scheme at the cost of **Rs.1812000/- (Rupees Eighteen Lacs Twelve thousand Only)** is technically and administrative approved by the undersigned.


 (K.J. Maharaja)
 Deputy Conservator of Forest,
 Social Forstry Division, Vadodara

Compensatory Afforestation Scheme for to be carried out in lieu of 3.4134 ha. protected Forest land for laying of Drinking water pipeline from Sindhrot intekwell to Kalali junction by Vadodara Municipal Corporation, Vadodara in Vadodara dostrict in S.F.Division, Vadodara in Gujarat

Daily wages Rs.310.40

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						
1	A	Cost of soil, ,manure, seeds, water, fartillizer, 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	709	211	920
	Total-1 (A to D)			6602	2695	9297
2	Area Development (Land Preparation)					
	A	Survey, cutback and promotion of root suckers		3364	0	3364
	B	Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	9715	0	9715
	Total			13079	0	13079
	2(A)	Natural fertilizer (Neem cake/ Castor cake)	1111@ 5.00	0	9910	9910
Total-2 (A to B and 2(A))			0	9910	9910	
3	3. SMC Works					
	A	Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12049	23915	35964
	B	Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9171	0	9171
	Total-3 (A to B)			21220	23915	45135

4	Protection					
	A	Barbed wire fencing	L.S.	3597	35968	39565
	B	Seed sowing and planting of cuttings of Ipomea/ Glarcidia along the fence		1119	481	1600
	Total-4 (A to B)			4716	36449	41165
Sub Total of 0 year (1 to 4)				45617	72969	118586
1st Year						
5	a	Maintenance of nursery (April to June)	1222	3435	343	3778
	b	Transport of seedling for plantation	1111	18594	389	18983
	c	Planting with khamna of Min 1 m dia	1111	5791	0	5791
	d	Transport of seediling for casualty replacement	111	201	44	245
	e	3 weeding cum soil working	1111	23583	0	23583
	f	Support watering 5 times @ 3.25		14430	20706	35136
	g	Protection / tending operation		4649	0	4649
	h	Tending to natural vegetation		1167	0	1167
	i	Contingency		0	1167	1167
Total for 1st year (a to i)				71850	22649	94499
2nd Year						
6	a	2 weeding & soil working		12669	0	12669
	b	20 % Casually replcement, transport and planting	111+111	211	1049	1260
	c	Natural fertilizer (neem cake / caster cake) etc.	Rs.5/	0	11711	11711
	d	Support watering 3 times @ 3.25		9376	11443	20819
	e	Protection / tending operation		5059	0	5059
Total for 2nd year (a to e)				27315	24203	51518
3rd Year						
7	a	2 weeding & soil working		13372	0	13372
	b	10% Casually replcement, transport and planting	111	113	566	679
	c	Natural fertilizer, neem cake etc.	Rs.5/	0	12838	12838
	d	Support watering 1 times @ 3.25		3367	4830	8197
	e	Protection & maintenance of fencing / tending operation	L.S.	8743	0	8743
Total for 3rd year (a to e)				25595	18234	43829
4thYear						
8	a	1 weeding & soil working		7384	0	7384
	b	Protection & Maintenance of fencing/ Tending operation	L.S.	7389	0	7389
Total for 4th year (a to b)				14773	0	14773

5thYear						
9	a	Protection & maintenance of fencing/ tending operation	L.S.	7785	0	7785
Total for 5th year				7785	0	7785
6thYear						
10	a	Protection & maintenance of fencing/ tending operation	L.S.	8271	0	8271
Tótal for 6th year				8271	0	8271
7thYear						
11	a	Protection & maintenance of fencing/ tending operation	L.S.	8758	0	8758
Total for 7th year				8758	0	8758
8thYear						
12	a	Protection & maintenance of fencing/ tending operation	L.S.	9243	0	9243
Total for 8th year				9243	0	9243
9thYear						
13	a	Protection & maintenance of fencing/ tending operation	L.S.	9730	0	9730
Total for 9th year				9730	0	9730
10thYear						
14	a	Protection & maintenance of fencing/ tending operation	L.S.	10217	0	10217
Total for 10th year				10217	0	10217
SUB TOTAL (1 to 14)				239154	138055	377209
The Cost of Supervision/subsequential silvicultureal Operations			20%	47831	27611	75442
Grand Total				286985	165666	452651

Note :-

- (1) Seed sowing along fencing towards the inner side, and also in the plot.
- (2) Planting of cutting of ipomea//Glarcidia along the fencing towards outer side.

Compensatory afforestation will be done in 1.00 ha. Area.

Total Cost Rs. : 453000/-

(K. J. Maharaja)
Deputy Conservator of Forests,
Social Forestry Divison, Vadodara.