

Compensary Afforestation Scheme for double degraded area

A Proposal for the approval of Forest land Proposed to be diverted for non forest purposes for Construction of Surface Parking in Sector-21 of Gandhinagar City.

Detailed scheme of Compensatory Afforestation for degraded area **2.00 ha.** to be carried out in lieu of **0.660 ha.** of Protected forest land to be diverted in Gandhinagar district.

1. Details of degraded land.

Village	Mahudi
Taluka	Mansa
Range	Mansa
District	Gandhinagar
Division	Gandhinagar
Block/ Patal, Compartment No.	1 Paiki
Area to be afforested	2.00 Ha.
Working circle	

2. Description of Area.

Soil type	Murrumy
Topography	Plain/Revines
Slope	Medium & Gentle
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 Dy.Conservator of Forest Gandhinagar Division as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 2.00 ha. area. The total afforestation cost will be about Rs.8,99,348/- Gandhinagar Smart City Development Ltd. Gandhinagar 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 324.50 per day.																					
b	Spacement	3 X 3 mtr., 1111 plants per ha.																					
c	Species to be planted (No. of plants per ha.)	<table border="1"> <thead> <tr> <th>Species to be Plants</th><th>Nos.</th><th>Plants Hights</th></tr> </thead> <tbody> <tr> <td>Neem</td><td>300</td><td>75 cm</td></tr> <tr> <td>Babool</td><td>400</td><td>65 cm</td></tr> <tr> <td>Bamboo</td><td>100</td><td>65 cm</td></tr> <tr> <td>Kanji</td><td>200</td><td>75 cm</td></tr> <tr> <td>Arjun Sadad</td><td>100</td><td>90 cm</td></tr> <tr> <td>Total</td><td>1111</td><td></td></tr> </tbody> </table>	Species to be Plants	Nos.	Plants Hights	Neem	300	75 cm	Babool	400	65 cm	Bamboo	100	65 cm	Kanji	200	75 cm	Arjun Sadad	100	90 cm	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	(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 Banding using 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 Trench	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 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.																					

1	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. Forester – 100% RFO – 100% ACF – 20% 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) Bamboo would be of the harvestable size by the end of 4th 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>
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
 Gandhinagar Division
 Gandhinagar

The Compensatory Afforestation scheme at the cost of **Rs.8,99,348/-** is technically and administrative approved by the undersigned.


 Dy. Conservator of Forest
 Gandhinagar Division
 Gandhinagar

Sub :- A Proposal for the approval of Forest land Proposed to be diverted for non forest purposes for Construction of Surface Parking in Sector-21 of Gandhinagar City. Detailed scheme of Compensatory Afforestation for degraded area 2.00 ha. to be carried out in lieu of 0.660 ha. of Protected forest land to be diverted in Gandhinagar district.

Name of works	Model No.	Area	Rate per	Amount (Daily wage: Rs.324.50)											
		H.A.	Hac.	Zero Year Rs.	Ist Year Rs.	IInd Year Rs.	III rd Year Rs.	IVth Year Rs.	Vth Year Rs.	VIth Year Rs.	VIIth Year Rs.	VIIIth Year Rs.	IXth Year Rs.	Xth Year Rs.	Total Rs.
0 Year 70 % Adv.work. 1st Year Operation.	SMC	2.00	123252	246504	0	0	0	0	0	0	0	0	0	0	246504
1st Year 30 % Advance work Current year plantation			80294	0	160588	0	0	0	0	0	0	0	0	0	160588
2nd Year operation Maintenance of one year old plantation.			55831	0	0	111662	0	0	0	0	0	0	0	0	111662
3rd Year operation Maintenance of 2 years old plantation.			43702	0	0	0	87404	0	0	0	0	0	0	0	87404
4th year operation Maint.Of 3 years old plantation.			15191	0	0	0	0	30382	0	0	0	0	0	0	30382
5th year operation Maint.Of 4 years old plantation.			8138	0	0	0	0	0	16276	0	0	0	0	0	16276
6th year operation Maint.Of 5 years old plantation.			8647	0	0	0	0	0	0	17294	0	0	0	0	17294
7th year operation Maint.Of 6 years old plantation.			9155	0	0	0	0	0	0	0	18310	0	0	0	18310
8th year operation Maint.Of 7 years old plantation.			9664	0	0	0	0	0	0	0	0	19328	0	0	19328
9th year operation Maint.Of 8 years old plantation.			10173	0	0	0	0	0	0	0	0	0	20346	0	20346
10th year operation Maint.Of 9 years old plantation.			10681	0	0	0	0	0	0	0	0	0	0	21362	21362
SUB Total (+/- 2)			374728	246504	160588	111662	87404	30382	16276	17294	18310	19328	20346	21362	749457
The Cost of Supervision/Subsequential/Silvi cultural operation (20%)			74946	-	-	-	-	-	-	-	-	-	-	-	149891
GRAND Total			449674	246504	160588	111662	87404	30382	16276	17294	18310	19328	20346	21362	899348


Dy. Conservator of Forest
Gandhinagar Division
Gandhinagar