Checklist No:-18

Detailed scheme of Compensatory Afforestation for Areas to be carried out in field of Non-forest land to be diversion of 4.04 Ha Forest land for Development SEZ utility and infrastructure crossing facilities in Mundra Ta. Mundra, Dist.Kutch in Gujarat.

Detail of Non-forest	land area identify fo	r Compensatory
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<u>Sr.</u> no.	<u>District</u>	<u>Taluka</u>	village	Survey no.	area (ha.)	Type of land
1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>5</u>	7
1	Kachchh	Rapar	Badargadh	380p	4.04	Non
						Forest
						area
Total a	Total area			4.04		
	Non-Forest area					

Place:-Bhuj-Kachchh.

Date:- 1/\/02/2020

(P.A.Vihol)

Dy Conservator of Forest Kachchh East Division, Bhuj.

Compensatory Afforestation Scheme for Non forest land area

Compensatory Afforestation Areas to be carried out in field of forest land to be diversion of 4.04 Ha Forest land for Development SEZ utility and infrastructure crossing facilities in Mundra Ta. Mundra, Dist.Kutch in Gujarat

Detailed scheme of Compensatory Afforestation for 4.04 ha Non-forest area. carried out demanded of 4.04 ha Reserved forest land in mundra Taluka of Kutch district.

1. Details of Non-forest land.

Village	Badargadh
Taluka	Rapar
Range	Rapar south
District	Kutch
Division	Kutch East
Block/ Patal, Compartment No.	380 p.
Area to be afforested	4.04 Ha.
Working circle	-

2. Description of Area.

Soil type	Black & Starey
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 Kutch East Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 4.04 ha.area. The total afforestation cost will be about **Rs. 18, 34,682** /- Adani Port and SEZ Ltd. 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.	Details	Specifications					
No.							
a	General Details	The C.A. will be taken under Compensatory Afforestation for					
		Non-Forest land. The prevailing wage rate is 310.40 per day.					
b	Spacement	3 X 3 mtr., 1111 plants per ha.					
С	Species to be planted	Gundi	211	M::			
	(No. of plants per ha.)	Gunai	211	Minimum planting height			
		Neem	250	will be 100 cm. at the time of planting. However it will vary for different species.			
		Pilu	225				
		Khijado	150				
	<i>x x x x x x x x</i>	DeshiBaval	225				
		Chhini Lai(Tamarixaphylla)	50				
		Total 1111					
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	(i) Pucca structure like Check dan	n, check v	vall, retaining wall			
	Conservation Works	Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha.will be dug					
	8 *	along the contour line. The dug	g out soil	will be heaped on the			
		down ward side. Gully pluggi		-			
		loose stone available in the a					
		requirement. Seeds of Jatropha, Agave plantsetc. will be					
	,	planted during monsoon in t		_			
	1	suitability.	11	1			
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of					
		Ipomea/Glarcidia along the fence					
i	Silvicultural	1 st year three weeding soil work	ing, Supp	oort watering will be			
	Operations	provided if needed.	- 11	• • • • • • • • • • • • • • • • • • •			
		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.					
1			1	•			

k	Subsequent	Cleaning, cutbacks, thinning etc. (as per species specific			
	silvicualtural	requirement) will be carried out at the age as per prescribed in			
,	Operation	the working plan.			
1	Proposed monitoring	(i) A plantation register is to be maintained.			
	mechanism	(ii) Monitoring is to be done as per the following norms.			
		Forester – 100%			
	5	RFO - 100%			
		ACF - 20%			
	9	DCF - 10%			
		 (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. (iv) The collar girth is also to be reordered 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 plantations in the sample selected, it will also be monitored by the third party selected for this purpose. 			
m	Regeneration	Cut-back and promotion of root suckers.			
	cleaning				
n	Silviculture & other	Only afforestation aimed plantation will be taken up, as the area			
	activities	falls under degraded forest land.			

(P.A.Vihol)

Dy Conservator of Forest Kachchh East Division, Bhuj.

The Compensatory Afforestation scheme at the cost of Rs. 18, 34, 682 /- is technically and administrative approved by the undersigned.

(P.A.Vihol)

Dy Conservator of Forest Kachchh East Division, Bhuj. Compensatory Afforestration Scheme for Non-Forest Areas to be carried out in field of forest land to be diversion of 4.04 Ha Forest land for Development SEZ utility and infrastructure crossing facilities in Mundra Ta. Mundra, Dist. Kutch in Gujarat Proposal Reg.

spacements = 3 m x 3 m 111 seedling / Ha st year replacement 10 % = 111 seedling /ha Ind year replacement 20 % = 111+111 seedling /ha Ind year replacement 10 % = 111 seedling /ha Ind year replacement 10 % = 111 seedling /ha Ind year replacement 10 % = 111 seedling /ha Ind year replacement 10 % = 111 seedling /ha Ind year replacement 10 % = 111 seedling /ha Ind year year Ind year Ind year Ind year year Ind	Labour 3 0 4478 1415 709 6602	Material 4 1830 232 422 211 2695	Total 5 1830 4710 1837 920 9297
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600 rmt.			
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s.17.00/rmt (300 trench) otal Protection) Barbed wire fencing) Seed sowing and planting of cuttings of Ipomea/ laricidia along the fence otal ub Total of 0 year st Year) Maintenance of nursery (April to June) 1222	9097	0	9097
Protection Description Descri	3037	"	9091
Protection (a) Barbed wire fencing (b) Seed sowing and planting of cuttings of Ipomea/ Idaricidia along the fence along the	21050	23726	44776
D) Barbed wire fencing L.S. D) Seed sowing and planting of cuttings of Ipomea/ laricidia along the fence Dotal Ub Total of 0 year St Year D) Maintenance of nursery (April to June) L.S. L.S. L.S. L.S. L.S. L.S. L.S. L.S	21030	23120	44776
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ub Total of 0 year st Year) Maintenance of nursery (April to June) 1222	4678	36155	40833
st Year) Maintenance of nursery (April to June) 1222	45409	72486	117895
) Maintenance of nursery (April to June) 1222	40400	72400	117000
	3435	343	3778
) Transport of seedling for plantation 1111		389	18983
Planting with khamna of Min 1 m dia 1111	19504	0	5791
Transport of seediling for casualty replacement 111	18594	44	245
) 3 weeding cum soil working 1111	5791	0	23583
Support watering 5 times @ 3.25	5791 201	20706	35136
) Protection / tending operation	5791 201 23583	20700	4644
) Tending to natural vegetation	5791 201 23583 14430	0	1167
Contigency	5791 201 23583 14430 4644		1167
otal for 1st year	5791 201 23583 14430 4644 1167		
nd Year	5791 201 23583 14430 4644 1167	1167	UZZZQZ
2 weeding & soil working	5791 201 23583 14430 4644 1167		94494
) 20 % Casually replecement, transport and planting 111+111	5791 201 23583 14430 4644 1167	1167	12669

(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	11711	11711
(d) Support watering 3 times @ 3.25		9377	13459	22836
(e) Protection / tending operation		5060	0	5060
Total for 2nd year		27317	26219	53536
3rd Year				
(a) 2 weeding & soil working		13372	0	13372
(b) 10 % Casually replecement, transport and planting	111	113	566	679
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	12838	12838
(d) Support watering 1 times @ 3.25		3367	4831	8198
(e) Protection & maintenance of fencing / tending operation	L.S.	8743	0	8743
Total for 3rd year		25595	18235	43830
4thYear				
(a) 1 weeding & soil working		7384	0	7384
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7298	0	7298
Total for 4th year		14682	0	14682
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	7785	0	7785
Total for 5th year	2 2 2	7785	0	7785
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8271	0	8271
Total for 6th year		8271	0	8271
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8758	0	8758
Total for 7th year		8758	0	8758
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9243	0	9243
Total for 8th year		9243	0	9243
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9730	0	9730
Total for 9th year		9730	0	9730
10thYear		. 1		
Protection & maintenance of fencing/ tending operation	L.S.	10217	0	10217
Total for 10th year		10217	0	10217
SUB TOTAL :		291379	139410	378441
The Cost of Supervision/subsequental silvicultureal Operations	20%	58276	27882	75688
. N		349655	167292	454129

Note:-

(1) Seed sowing along fencing towards the inner side, and also in the plot.

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

Compensatory afforestation will be done in 1.00 ha. Area.

Total Cost Rs. :4,54,129/-

(P.A.Vihol)

Dy Conservator of Forest
Kachchh East Division, Bhuj.

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