

Checklist No :-19 A
Scheme of Compensatory Afforestation

Diversion of 632.24.00 Ha. of forest land in village Hirasar of Dist.:Rajkot of Gujarat State for Construction of Airport by Civil Aviation, Government of Gujarat.

Detailed scheme for compensatory afforestation forest Deptt. On equivalent non forest area /degraded forest area.

(1) Details of degraded forest land / non-forest land.
 District :-Kutch Village :- Bhachunda & Kunathiya
 Taluka : - Abdasa
 Forest Division :Kutch West Forest Division Range :-Naliya (S)
 Block / Compartment / Survey No. :- Attached Sheet Here With
 Area to be afforestation **632-24-00 ha**


(2) Description of Area.
 Soil type :_murmi
 Topography :-_Berrar
 Slope :-_Plain
 Whether the area is bearing any root stock or Vegetation :-_yes


(3) Name of Plantation Program me : Compensatory Aforestation -Specially Designed model for GIB Eco-Sensitive Zone attach with.

(4) Schedule of Plantation Program me :
 The Compensatory/A forestation on non-forest degraded forest land would be started by Dy. Conservator of Forest Normal Division Kutch West as early as possible after the proposal is formally approved. Details of Year wise break-up of requirement of fund is as under:

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		Man day-	297.60	
Sr. No.	Year	Area	Rate/Ha.	Total Amount
1	0 Year	632.24	122942.00	77728850.080
2	1st Year	632.24	64369.00	40696656.560
3	2nd Year	632.24	7120.00	4501548.800
4	3rd Year	632.24	8229.00	5202702.960
5	4th Year	632.24	7464.00	4719039.360
6	5th Year	632.24	7962.00	5033894.880
7	6th Year	632.24	8459.00	5348118.160
8	7th Year	632.24	8957.00	5662973.680
9	8th Year	632.24	9454.00	5977196.960
10	9th Year	632.24	9952.00	6292052.480
11	10th Year	632.24	10450.00	6606908.000
12	Total	632.24	265358.00	167769941.920
13	Service charge 20%	632.24	53072.00	33554241.280
	Grant Total	632.24	318430.00	201324183.200

Date :- 22/06/2017
 Place:- Kutch-Bhuj


(Dr. B . Suchindra)
 Dy.Conservator of Forest
 West Division Kutch-Bhuj


(M. M. Muni)
 Dy. Conservator of Forests
 Rajkot Forest Division, Rajkot
 27/6/17

Checklist No. 19 B
Technical Detail of Compensatory Afforestation are as follow
Diversions of 632.24.00 Ha. of forest land in village Hirasar of Dist.:Rajkot of Gujarat State for Construction of Airport by Civil Aviation, Government of Gujarat.
<i>Scheme of Compensatory Afforestation Eco-Restoration Plan for wintering/foraging ground 632.24.00 hectare of Bhachunda & Kunathiya Village (Wintering/foraging ground of GIB should have some Shrubland, Scrubland and Grassland) Ta-Abdasa, Dist-Kutch, West Division of 632.24.00 hectare of area</i>
1. Shrubland : . 157-50-00 ha. (Plantation of Salvadora sp. 25% , Zizyphus mauritiana 25%, Scrubland : . 157-50-00 ha. Capparis 25%, Euphorbia 25%. at the distance of 10 ft x 10ft)
2. Grassland :. 157-50-00 ha. Short heighted grass like Cymbopogon, cressa, lamp will be raised.
3. Open patch : .159-74-00 ha (In this patch, whatever natural growth is occurring should be left as it is but invasive species like P. juliflora etc. should be . removed regularly)
Type : - Rain fed.
Design & technique 1. Detailed Survey Of the area will be conducted. 2. Flora & fauna of the area will be noted down. 3. Depending on the existing diversity/elevation/location; bustard friendly floral species will be selected 4. Depending on the site, bustard friendly grass patch or other vegetation will be kept in as it is condition.
Species composition :- A mixture of Non-palatable grass species like Cymbopogon sp.,Crysopogan sp. and Aristida sp in the Respective ratio of 6:2:2.
Area development:- 1. Removal of unwanted species like P.juliflora etc. 2. Ploughing (max.15 cm deep) will be done prior to monsoon. 3. A 15 mtr broad belt of Cymbopogon sp followed by a 5 mtr broad belt of Arista sp. and 10 And if required fresh water should be supplied for a year to ensure the growth.
Providing water hole :- No waterhole, tall trees / perch for prey birds is required in the breeding area as it may attract the Predators that can increase the chance of predation of nest/chicks/adult birds.
Seed Sowing :- Seed sowing of bustard friendly grass species which can be easily germinated will be done prior to monsoon. Soeing will be done by loosening the soil by ploughing it.
Planting :- Seed sowing will be done at the distance of 50 cm x 50 cm. No other Plant/trees/shrub will be cultivated in the area.
Up keep of the area :- Every year after monsoon, newly germinated invasive specive species of weeds will be removed
Protection :- Chainlink fencing with iron angle.

Date :- 22/06/2017

Place:- Kutch-Bhuj

(Dr. B. Suchindra)

Dy.Conservator of Forest
West Division Kutch-Bhuj

technically sanctioned for Rs. 2013241831/-

Chief Conservator of Forest
Kachchh Circle-BHUJ

(M. M. Muni) 2716127
Dy. Conservator of Forests
Rajkot Forest Division, Rajkot

Checklist No :-19 C

Division of 632.24.00 Ha. of forest land in village Hirasar of Dist.:Rajkot of Gujarat State for Construction of Airport by Civil Aviation, Government of Gujarat.

Rate Structure for Compensatory Afforestation for the Year 2017-18

Daily Wage : Rs.

297.6

Sr. No.	R-2 MODEL	Rate/ha.	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	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18
1	MODEL No-3 Annexure-4(1)	A	111765	53641	5477	5878	4976	4976	4976	4976	4976	4976	4976	211593	42319	253912
2		B	122942	64369	7120	8229	7464	7962	8459	8957	9454	9952	10450	265358	53072	318430

Date :- 22/06/2017

Place:- Kutch-Bhuj

(M. J. Muni)
Dy. Conservator of Forests
Rajkot Forest Division, Rajkot
27/6/17

(Dr. B. Suchindra)
Dy. Conservator of Forest
West Division Kutch-Bhuj

Annexure - II

(Specially designed model for GIB)

Compensatory Afforestation Model For Wintering Ground for Great Indian Bustard

Daily wages Rs.297.60							
Sr No	Item of Work	Unit	Qty	Unit rate (Rs.)	Labour (Rs.)	Material (Rs.)	Total
1	2	3	4	5	6	7	8
0 Year							
a	Uprooting of invasive species (P. juliflora etc)	Ha	1	4665	4665	0	4665
b	Selective ploughing of the area having poor quality of grass growth (50% of the total area)	Ha	0.50		0	3716	3716
c	Digging of pits size 30x30x30 cm at 5 x 5m shrub Plantation in 50% area	Ha	0.5 Ha. (200 nos)	513.1	513.1	0	513.1
d	Raising of Nursery	Ha	1	1088.6	815.91	272.68	1088.6
e	Chainlink fencing with Iron angle (70%)	Ha	56 rmt	1250/rmt	40713.5	61068.75	101782
Total (0 year)					46707.5	65057	111765
1st Year							
a	Chainlink fencing with Iron angle (30%)	Ha	24 rmt	1250/rmt	17447.5	26172.5	43620.00
b	Maintenance of nursery	Ha	1	467.30	350.74	116.55	467
c	Preperation of pellets of grass seeds including cost of seed, soil, manure, storage, packing and transportation				831.95	505.80	1338
d	Sowing of grass seed pellets in ploughed area or in gaps just before monsoon				831.95	0	831.95
e	Planting of shrub (including transporting & 1 weeding soil working)	Ha	0.5 Ha. (200 nos)	2410.51	2332.48	77.976	2410.456
f	Fire line			310.0695	310.0695	0	310.0695
g	Protection / tending operation	Ha	1	3731.763	3731.76	0	3731.763
h	Contingency				932.13	0	932.13
Total (1st year)					26769	26873	53641
2nd year							
a	Preperation of pellets of grass seeds including cost of seed soil, manure, storage, packing and transportation				163.61	101.58	265
b	Sowing of grass seed pellets in ploughed area or in gaps just before monsoon				163.61	0	164
c	Causality replacement & 1 weeding soil working			1006.25	1006.25	0	1006.25
d	Fire line	Rmt	100	311.069	311.069	0	311.069
e	Protection / tending operation	Ha	1	3730.69	3730.69	0	3730.69
Total (2nd year)					5375	102	5477
3rd Year							
a	1 weeding & soil working	Ha	1	901.90	901.90	0	901.9
b	Fire line	Rmt	100	311.0631	311.063	0	311.0631
c	Protection, maintenance of fencing/ tending operation	Ha	1	4664.96	4664.96	0	4664.96
Total (3rd year)					5878	0	5878
4th Year							
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/tending operation	Ha	1	4664.50	4664.50	0	4664.50
Total (4th year)					4976	0	4976

Note:

For the plantation a minimum of 25 ha. plot has to be taken up in a year


* As per actual RMT length of chainlink fencing & as per sanctioned Plan / Estimates.

** only 1 weeding / soil working at the end of monsoon season

*** Grass species suitable to Great Indian Bustard habitat

Sr No	Item of Work	Unit	Qty	Unit rate (Rs.)	Labour (Rs.)	Material (Rs.)	Total
1	2	3	4	5	6	7	8
	5th Year						
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.50	4664.50	0	4664.50
	Total (5th year)				4976	0	4976
	6th Year						
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.50	4664.50	0	4664.50
	Total (6th Year)				4976	0	4976
	7th Year						
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.50	4664.50	0	4664.50
	Total (7th year)				4976	0	4976
	8th Year						
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.50	4664.50	0	4664.50
	Total (8th year)				4976	0	4976
	9th Year						
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.50	4664.50	0	4664.50
	Total (9th Year)				4976	0	4976
	10th Year						
a	Fire line	Rmt	100	311.18	311.18	0	311.18
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.50	4664.50	0	4664.50
	Total (10th Year)				4976	0	4976
	Grand Total				119559	92031.84	211593

Date- -06-2017
Place-Bhuj


(Dr.B.Suchindra)
Dy.Conservator of Forests
Kachchh West Division,BHuj

New Scheme for KUTCH-GIB as per APccf Land Letter No-jmn/31/B/4156-58/Dt-20-11-2013


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