


Checklist No :-19 A					
Scheme of Compensatory Afforestation					
Proposal for diversion of 0.9450 Ha. of Forest land for Construction of 220 KV Transmission line for wind farm Project in Village: Lakhivavro of Taluka: Nakhatrana of District-Kutch, Gujarat. by Srijan Energy Systems Private Limited, (Corporate office-102, EL Tara, Hiranandani Garden, Powai, Mumbai-400076).					
Detailed scheme for compensatory afforestation on identified non-forest area/ degraded forest area at prevalent wage rates duly signed by DCF and counter signed by the CCF/CF concerned. The CA scheme must include all the technical details, details of work schedule & total financial outlay.					
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 :- Sudadhro moti Taluka :- Abdasa Forest Division :Kutch West Range :-Naliya (N) Block / Compartment / Survey No. :-545/Pt 39/pt 2/pt 2. Area to be afforestation:- 01-00-00 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:					
Details of Year wise break-up of requirement of fund is as under :					
	Manday : Rs.		297.60		
	Sr. No.	Year	Area	Rate/Ha.	Total Amount
	1	0 Year	1.00	106759.72	106759.720
	2	1st Year	1.00	56805.22	56805.220
	3	2nd Year	1.00	7119.08	7119.080
	4	3rd Year	1.00	8147.77	8147.770
	5	4th Year	1.00	7463.32	7463.320
	6	5th Year	1.00	7960.88	7960.880
	7	6th Year	1.00	8458.43	8458.430
	8	7th Year	1.00	8955.99	8955.990
	9	8th Year	1.00	9453.54	9453.540
	10	9th Year	1.00	9951.10	9951.100
	11	10th Year	1.00	10448.65	10448.650
	12	Total	1.00	241524	241523.700
	13	Service charge 20%	1.00	48304.74	48304.740
	14	Grant Total	1.00	289828.44	289828.440

Date :- 29/01/2018
 Place:- Kutch-Bhuj


 (B.J. Asari)

Dy.Conservator of Forest
 West Division Kutch-Bhuj

technically sanctioned for
Rs. 289828.44/- per ha.

24/1/18


 Dy. Conservator of Forest
 Kachchh West Division, Bhuj

Annexure - II								
(Specially designed model for GIB for Bhachunda & Kunathiya, Ta. Abadasa-Kutch)								
Compensatory Afforestation Model For habitat development for Great Indian Bustard								
	Daily wages Rs.297.6						297.6	
Sr No	Item of Work	Unit	Qty	Unit rate (Rs.)	Labour (Rs.)	Material (Rs.)	Total	
1	2	3.00	4.00	5.00	6.00	7.00	8.00	
1	0 Year							
a	Uprooting of invasive species (P. juliflora etc)	Ha	1.00	4664.58	4664.58	0.00	4664.58	
b	Selective ploughing of the area having poor quality of grass growth (50% of the total area)	Ha	0.50	3716.11	0.00	0.00	3716.11	
c	Digging of pits size 30x30x30 cm at 5 x 5m shrub Plantation in 50% area	Ha	0.5 Ha. (200 nos)	513.10	513.10	0.00	513.10	
d	Raising of Nursery	Ha	1.00	1088.40	816.30	272.10	1088.40	
e	Chainlink fencing with Iron angle (70%)	Ha	56 rmt	1000/rmt	34828.84	52243.26	87072.10	*
	Total (0 year)				40822.82	52515.36	97054.29	
	1st Year							
a	Chainlink fencing with Iron angle (30%)	Ha	24 rmt	1000/rmt	14926.65	22389.97	37316.61	*
b	Maintenance of nursery	Ha	1.00	466.46	349.84	116.61	466.46	
c	Preparation of pellets of grass seeds including cost of seed, soil, manure, storage, packing and transportation				831.85	505.33	1337.18	
d	Sowing of grass seed pellets in ploughed area or in gaps just before monsoon				831.85	0.00	831.85	***
e	Planting of shrub (including transporting & 1 weeding soil working)	Ha	0.5 Ha. (200 nos)	2410.03	2332.29	77.74	2410.03	
f	Fire line			310.97	310.97	0.00	310.97	
g	Protection / tending operation	Ha	1.00	3731.66	3731.66	0.00	3731.66	
h	Contingency				932.92	0.00	932.92	
	Total (1st year)				24248.03	23089.66	47337.68	
	2nd year							
a	Preparation of pellets of grass seeds including cost of seed soil, manure, storage, packing and transportation				163.26	101.07	264.33	
b	Sowing of grass seed pellets in ploughed area or in gaps just before monsoon				163.26	0.00	163.26	
c	Causality replacement & 1 weeding soil working			1005.99	1005.99	0.00	1005.99	**
d	Fire line	Rmt	100.00	310.97	310.97	0.00	310.97	
e	Protection / tending operation	Ha	1.00	3731.66	3731.66	0.00	3731.66	
	Total (2nd year)				5375.15	101.07	5476.21	
	3rd Year							
a	1 weeding & soil working	Ha	1.00	844.29	844.29	0.00	844.29	
b	Fire line	Rmt	100.00	310.97	310.97	0.00	310.97	
c	Protection, maintenance of fencing/ tending operation	Ha	1.00	4664.58	4664.58	0.00	4664.58	
	Total (3rd year)				5819.84	0.00	5819.84	
	4th Year							
a	Fire line	Rmt	100.00	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/tending operation	Ha	1.00	4664.58	4664.58	0.00	4664.58	
	Total (4th year)				4975.55	0.00	4975.55	

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.

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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	3.00	4.00	5.00	6.00	7.00	8.00	
	5th Year							
a	Fire line	Rmt	100.00	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/ tending operation	Ha	1.00	4664.58	4664.58	0.00	4664.58	
	Total (5th year)				4975.55	0.00	4975.55	
	6th Year							
a	Fire line	Rmt	100	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.58	4664.58	0.00	4664.58	
	Total (6th Year)				4975.55	0.00	4975.55	
	7th Year							
a	Fire line	Rmt	100	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.58	4664.58	0.00	4664.58	
	Total (7th year)				4975.55	0.00	4975.55	
	8th Year							
a	Fire line	Rmt	100	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.58	4664.58	0.00	4664.58	
	Total (8th year)				4975.55	0.00	4975.55	
	9th Year							
a	Fire line	Rmt	100	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.58	4664.58	0.00	4664.58	
	Total (9th Year)				4975.55	0.00	4975.55	
	10th Year							
a	Fire line	Rmt	100	310.97	310.97	0.00	310.97	
b	Protection, maintenance of fencing/ tending operation	Ha	1	4664.58	4664.58	0.00	4664.58	
	Total (10th Year)			4975.55	4975.55	0.00	4975.55	
	Grand Total				111094.67	75706.08	190516.87	

(B.J.Asari)

Dy.Conservator of Forests
Kachchh West Division,BHuj

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

Checklist No. 19 B
Technical Detail of Compensatory Afforestation are as follow
Proposal for diversion of 0.9450 Ha. of Forest land for Construction of 220 KV Transmission line for wind farm Project in Village: Lakhiyaviro of Taluka: Nakhatrana of District-Kutch, Gujarat. by Srijan Energy Systems Private Limited, (Corporate office-102, EL Tara, Hiranandani Garden, Powai, Mumbai-400076).
<i>Scheme of Compensatory Afforestation</i> <i>Eco-Restoration Plan for wintering/foraging ground 1.00 hectare of Sudadhro moti Village</i> <i>(Wintering/foraging ground of GIB should have some Shrubland, Scrubland and Grassland)</i> <i>Ta-Abdasa, Dist-Kutch, West Division of 0.9450 hectare of area</i>
1. Shrubland : 0.25 ha. (Plantation of <i>Salvadora</i> sp. 25% , <i>Zizyphus mauritiana</i> 25%, Scrubland : 0.25 ha. <i>Capparis</i> 25%, <i>Euphorbia</i> 25%. at the distance of 10 ft x 10ft)
2. Grassland : 0.25 ha. Short heighted grass like <i>Cymbopogon</i> , <i>cressa</i> , <i>lamp</i> will be raised.
3. Open patch : 0.25 ha (In this patch, whatever natural growth is occurring should be left as it is but invasive species like <i>P. juliflora</i> 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 <i>Cymbopogon</i> sp., <i>Crysopogan</i> sp. and <i>Aristida</i> sp in the Respective ratio of 6:2:2.
Area development:-
1. Removal of unwanted species like <i>P.juliflora</i> etc.
2. Ploughing (max.15 cm deep) will be done prior to monsoon.
3. A 15 mtr broad belt of <i>Cymbopogon</i> sp followed by a 5 mtr broad belt of <i>Arista</i> 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 :- 29/01/2018

place:- Bhuj

(B.J.Asari)

Dy.Conservator of Forest
West Division Kutch-Bhuj

24/9/18



Checklist No :-19 C

Proposal for diversion of 0.9450 Ha. of Forest land for Construction of 220 KV Transmission line for wind farm Project in Village: Lakhiyaviro of Taluka: Nakhtrana of District-Kutch, Gujarat. by Srijan Energy Systems Private Limited, (Corporate office-102, EL Tara, Hiranandani Garden, Powai, Mumbai-400076).

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	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18
1	Kutch GIB Model	A	Normal Rate	97054.29	47337.68	5476.21	5819.84	4975.55	4975.55	4975.55	4975.55	4975.55	4975.55	4975.55	190516.87	38103.37	228620.24
2		B	Increased by 10% / yr	106759.72	56805.22	7119.08	8147.77	7463.32	7960.88	8458.43	8955.99	9453.54	9951.10	10448.65	241523.70	48304.74	289828.44

Date :- 29/01/2018
Place:- Kutch-Bhuj

(B.J.Asari)
Dy. Conservator of Forest
West Division Kutch-Bhuj

[Signature]
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29/1/18