

Compensatory Afforestation Scheme for Degraded Forest area

Diversion of Section- 4 forest land for construction of 220 KV Double Circuit Overhead Transmission line from Nirona (PGCIL) SS to 220 KV Dayapar INOX Wind farm Substation, Dist.Kutch. (Diversion Area : 7.819 ha.)

Detailed scheme of Compensatory Afforestation for degraded area 16.00 ha. to be carried out in lieu of 7.819 ha. of Forest Land to be diverted in Kutch West Division, Bhuj.

Details :-

Village	Ulat
Taluka	Nakhatrana
Range	Nakhatrana (East)
District	Kutch
Division	Kutch (West)
Block/ Patal, Compartment No.	Survey.No.33/pt
Area to be afforested	16.00 ha.

Description of Area :-

Soil type	Black cotton with Murom
Topography	Undulating with Gentle slope
Whether the area is bearing any root stock of Vegetation	Yes

1. Name of Plantation Programme: -

Compensatory Afforestation Scheme for Degraded Forest Area.

2. Schedule of Plantation Programme: -

- (i) The Compensatory Afforestation on degraded area would be started by Dy. Conservator of Forest, Kutch West Division, Bhuj as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 16.00 ha. area. The total afforestation cost will be about Rs.73,18,157/- **Inox Wind Infrastructure services Ltd.** has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

3. 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.													
	Species to be planted (No. of plants per / ha.)	<table> <tr> <td>Desi Baval</td><td>222</td><td rowspan="6">Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Pilu</td><td>222</td></tr> <tr> <td>Gugal</td><td>223</td></tr> <tr> <td>Gundi (Liyar)</td><td>222</td></tr> <tr> <td>Gorad</td><td>222</td></tr> <tr> <td>Total</td><td>1111</td></tr> </table>	Desi Baval	222	Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.	Pilu	222	Gugal	223	Gundi (Liyar)	222	Gorad	222	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	Site cleaning of area and 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) SMC structure like Chek dam, Chek wall, retaining wall, Van talav, Earthen bund, and Loose boulder. (ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. as per site specific condition will be carried out of Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Pillu, Desi baval ...etc. will be planted during monsoon in the upper side of nala as per suitability.
h	Protection Trench	Protection trench, Barbed wire fencing Seed showing and planting of cuttings of Desi baval/ Pilu or any local species.
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	(i) A plantation register is to be maintained. (ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% 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 November and March each year. (iv) The collar girth is also to be reordered at the end of each year. (v) 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.
m	Regeneration cleaning	Soil working around natural regeneration.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

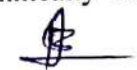


(Tushar B. Patel)

Dy. Conservator of Forests
Kutch West Division, Bhuj

The Compensatory Afforestation scheme at the cost of Rs.73,18,157/- is technically and administrative approved by the undersigned.

Date: /09/2020



(Tushar B. Patel)

Dy. Conservator of Forests
Kutch West Division, Bhuj

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**Diversion of Section- 4 forest land for construction of 220 KV Double Circuit Overhead Transmission line from Nirona (PGCIL) SS to 220 KV Dayapar INOX Wind farm Substation, Dist.Kutch.
(Diversion Area : 7.819 ha.)**

Increased 10% rate/ year with 20 % add Supervision charge of Rate Structure for Compensatory Afforestation scheme for the Year 2020-21

Daily Wages : Rs.324.50

Sr. No.	MODEL No.		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	MODEL No-3	A	Normal Rate	117890.92	66910.76	42947.92	31215.73	10126.62	5086.20	5086.20	5086.20	5086.20	5086.20	5086.20	299609.15	59921.83	359530.98
2	Annexure-4(1)	B	Increased 10% rate/ year	129680.01	80292.91	55832.30	43702.02	15189.93	8137.92	8646.54	9155.16	9663.78	10172.40	10681.02	381153.99	76230.80	457384.79

Date :- 11/09/2020


(Tushar B. Patel)
Dy. Conservator of Forests
Kutch West Division, Bhuj

MODEL No-3 Annexure-4(1)

**Diversion of Section- 4 forest land for construction of 220 KV Double Circuit Overhead Transmission line
from Nirona (PGCIL) SS to 220 KV Dayapar INOX Wind farm Substation, Dist.Kutch.
(Diversion Area : 7.819 ha.)**

Spacemnts = 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 1	Qty. 2	Labour 3	Material 4	Total 5
0 year				
Nursery				
(a) Cost of soil, manure, seeds, water, polythene bag fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0.00	1739.48	1739.48
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4255.45	220.40	4475.85
(c) Seedling cost for casualty replacement in one year old (20%)	222	1344.46	401.81	1746.27
(d) Seedling cost for casualty replacement in two year old (10%)	111	673.08	200.05	873.13
Total		6272.99	2561.74	8834.73
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers, site preparation.		3197.53	0.00	3197.53
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 10.95	12165.45	0.00	12165.45
Total		15362.98	0.00	15362.98
(a) Natural fertilizer (Neem cake/ Castor cake)/ Bio fertilizar	1111	0.00	9417.96	9417.96
Total		0.00	9417.96	9417.96
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only) van talav, earthen bund, loose boulder chekdam	L.S.	11359.19	22548.85	33908.04
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.27.00/rmt (300 trench) (according to the site condition)	600 rmt.	16200.00	0.00	16200.00
Total		27559.19	22548.85	50108.04
4. Protection				
(a) Protection trench (1.20m. Length x 0.60m. Width x 1m. Depth)	400 rmt @ 81.65	32660.00	0.00	32660.00
(b) Seed sowing desi baval, khijado, etc.. or any local species		1054.54	452.67	1507.21
Total		33714.54	452.67	34167.21
Total of 0 year		82909.70	34981.22	117890.92
1st Year				
(a) Maintenance of nursery (April to June)	1222	2992.38	298.40	3290.78
(b) Transport of seedling for plantation	1111	1641.15	339.08	1980.23
(c) Planting with khamna of Min 1 m dia	1111	5045.53	0.00	5045.53
(d) Transport of seedling for casualty replacement	111	174.63	38.99	213.62
(e) 3 weeding cum soil working	1111	19666.67	0.00	19666.67
(f) Support watering 5 times @ 3 25		12571.41	18039.08	30610.49
(g) Protection / tending operation		4068.96	0.00	4068.96
(h) Tending to natural vegetation		1017.24	0.00	1017.24
(i) Contingency		0.00	1017.24	1017.24
		47177.97	19732.99	66910.96

2nd Year				
(a) 2 weeding & soil working		10082.56	0.00	10082.56
(b) 20 % Casualty replacement, transport and planting	111+111	169.54	844.31	1013.85
(c) Natural fertilizer (neem cake / caster cake) etc. / Bio fertilizer	Rs.5/ plant	0.00	9417.96	9417.96
(d) Support watering 3 times @ 3.25		7541.15	10823.44	18364.59
(e) Protection / tending operation		4068.96	0.00	4068.96
		21862.21	21085.71	42947.92
3rd Year				
(a) 2 weeding & soil working		10082.56	0.00	10082.56
(b) 10 % Casualty replacement, transport and planting	111	84.77	422.15	506.92
(c) Natural fertilizer (neem cake / caster cake) etc. / Bio fertilizer	Rs.5/ plant	0.00	9417.96	9417.96
(d) Support watering 1 times @ 3.25		2514.28	3607.81	6122.09
(e) Protection & maintenance of fencing / tending operation	L.S.	5086.20	0.00	5086.20
		17767.61	13447.92	31215.53
4th Year				
(a) 1 weeding & soil working		5040.42	0.00	5040.42
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	5086.20	0.00	5086.20
		10126.62	0.00	10126.62
5th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5086.20	0.00	5086.20
		5086.20	0.00	5086.20
6th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5086.20	0.00	5086.20
		5086.20	0.00	5086.20
7th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5086.20	0.00	5086.20
		5086.20	0.00	5086.20
8th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5086.20	0.00	5086.20
		5086.20	0.00	5086.20
9th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5086.20	0.00	5086.20
		5086.20	0.00	5086.20
10th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5086.20	0.00	5086.20
		5086.20	0.00	5086.20
Grand Total :		210361.51	89247.64	299609.15

Note :- (1) Seed sowing along fencing / Protection trench towards also in the plot.
(2) Seed showing of desi baval, khijado or any local species (site specific).



(Tushar B. Patel)

Dy. Conservator of Forests
Kutch West Division, Bhuj

Date: 11/09/2020

As per APCCF, Land, Gandhinagar letter dated: 18/11/2019 & 27/11/2019