

Compensary Afforestation Scheme for double degraded area

Proposal for approval of 220 KV O/H transmission line from Gadhsisha to Nirona by KP Energy Ltd. at Kutch (West) under Forest Conservation act -1980 (Total diversion area: 1.05 ha.)

Detailed scheme of Compensatory Afforestation for degraded area 2.10 ha. to be carried out in lieu of 1.05 ha. of Protected forest land to be diverted in Kutch district.

1. Details of degraded land.

Village	Versalpar
Taluka	Nakhatrana
Range	Nakhatrana-East
District	Kutch
Division	Kutch-West
Block/ Patal, Compartment No.	Com.293 / Sr.no.133/ Pt.
Area to be afforested	2.10 ha.
Working circle	

2. Description of Area.

Soil type	Black cotton with Murom
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 Degraded Area.

4. Schedule of Plantation Programme:-

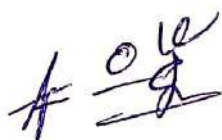

- | | |
|------|---|
| (i) | The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Kutch-West Division as early as possible after the proposal is formally approved. |
| (ii) | Compensatory Afforestation will be done in 2.10 ha. area. The total afforestation cost will be about Rs. 9,03,270/- K.P. Energy Ltd., Surat-Gujarat 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:-

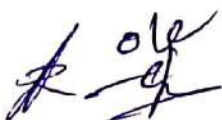
Technical details of Compensatory Afforestation are as Follows:-

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 310.40 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"> <tr> <td>Gundi</td><td>211</td><td rowspan="7">Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Gugal</td><td>250</td></tr> <tr> <td>Pilu</td><td>225</td></tr> <tr> <td>Khijado</td><td>150</td></tr> <tr> <td>Desi baval</td><td>225</td></tr> <tr> <td>Chhini Lai (Tamarix aphylla)</td><td>50</td></tr> <tr> <td>Total</td><td>1111</td></tr> </table>	Gundi	211	Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.	Gugal	250	Pilu	225	Khijado	150	Desi baval	225	Chhini Lai (Tamarix aphylla)	50	Total	1111
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Chhini Lai (Tamarix aphylla)	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 Conservation Works	<p>(i) Pucca structure like Check dam, check wall, retaining wall</p> <p>(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 Pillu, Desi baval ...etc. will be planted during monsoon in the upper side of nala as per suitability.</p>															
h	Protection Trench	Protection trench, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the trench.															
i	Silvicultural Operations	<p>1st year three weeding soil working, Support watering will be provided if needed.</p> <p>2nd year two weeding soil working.</p> <p>3rd year one weeding soil working.</p>															
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	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <table><tr><td>Forester</td><td>- 100%</td></tr><tr><td>RFO</td><td>- 100%</td></tr><tr><td>ACF</td><td>- 20%</td></tr><tr><td>DCF</td><td>- 10%</td></tr></table> <p>(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.</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>	Forester	- 100%	RFO	- 100%	ACF	- 20%	DCF	- 10%
Forester	- 100%									
RFO	- 100%									
ACF	- 20%									
DCF	- 10%									
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.								



(B. J. Asari)
 Dy Conservator of Forest
 Kachchh West Division, Bhuj

The Compensatory Afforestation scheme at the cost of Rs. 9,03,270/- is technically and administrative approved by the undersigned.



(B. J. Asari)
 Dy Conservator of Forest
 Kachchh West Division, Bhuj

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(Total diversion area: 1.05 ha.)

Rate Structure for Compensatory Afforestation for the Year 2019-20

Daily Wage : Rs. 310.40																	
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.	A	Normal Rate	107175.58	64003.39	41081.78	29859.38	9686.61	4865.20	4865.20	4865.20	4865.20	4865.20	280997.94	56199.59	337197.53	
2	3 Annexure 4(1)	B	Increased by 10% / yr.	117893.14	76804.07	53406.31	41803.13	14529.92	7784.32	8270.84	8757.36	9243.88	9730.40	358440.29	71688.06	430128.34	

Daily Wage : Rs. 310.40

Date :- 22/12/2019
Place:- Bhuj-Kutch


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



Compensatory Afforestation Scheme for double degraded area under FCA proposal Proposal for approval of 220 KV O/H transmission line from Gadhsisha to Nirona by KP Energy Ltd. at Kutch (West) under Forest Conservation act -1980 (Total diversion area: 1.05 ha.)

Daily wages Rs. 310.40

Spacings = 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	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Cost of soil, manure, seeds, water, fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0.00	1663.90	1663.90
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4070.55	210.82	4281.37
(c) Seedling cost for casualty replacement in one year old (20%)	222	1286.04	384.35	1670.39
(d) Seedling cost for casualty replacement in two year old (10%)	111	643.83	191.36	835.19
Total		6000.42	2450.43	8450.85
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3058.59	0.00	3058.59
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 6.00	8831.97	0.00	8831.97
Total		11890.56	0.00	11890.56
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0.00	9008.74	9008.74
Total		0.00	9008.74	9008.74
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	10865.62	21569.07	32434.69
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	8270.85	0.00	8270.85
Total		19136.47	21569.07	40705.54
4. Protection				
(a) Barbed wire fencing	L.S.	3243.47	32434.70	35678.17
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1008.72	433.00	1441.72
Total		4252.19	32867.70	37119.89
Sub Total of 0 year		41279.64	65895.94	107175.58
1st Year				
(a) Maintenance of nursery (April to June)	1222	2862.36	285.43	3147.79
(b) Transport of seedling for plantation	1111	1569.84	324.35	1894.19
(c) Planting with khamna of Min 1 m dia	1111	4826.29	0.00	4826.29
(d) Transport of seedling for casualty replacement	111	167.04	37.30	204.34
(e) 3 weeding cum soil working	1111	18812.12	0.00	18812.12

(f) Support watering 5 times @ 3.25		12025.16	17255.26	29280.42
(g) Protection / tending operation		3892.16	0.00	3892.16
(h) Tending to natural vegetation		973.04	0.00	973.04
(i) Contingency		0.00	973.04	973.04
Total for 1st year		45128.01	18875.38	64003.39
2nd Year				
(a) 2 weeding & soil working		9644.46	0.00	9644.46
(b) 20 % Casually replcement, transport and planting	111+111	162.17	807.62	969.79
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0.00	9008.74	9008.74
(d) Support watering 3 times @ 3.25		7213.48	10353.15	17566.63
(e) Protection / tending operation		3892.16	0.00	3892.16
Total for 2nd year		20912.27	20169.51	41081.78
3rd Year				
(a) 2 weeding & soil working		9644.46	0.00	9644.46
(b) 10 % Casually replcement, transport and planting	111	81.09	403.81	484.90
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0.00	9008.74	9008.74
(d) Support watering 1 times @ 3.25		2405.03	3451.05	5856.08
(e) Protection & maintenance of fencing / tending operation	L.S.	4865.20	0.00	4865.20
Total for 3rd year		16995.78	12863.60	29859.38
4thYear				
(a) 1 weeding & soil working		4821.41	0.00	4821.41
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	4865.20	0.00	4865.20
Total for 4th year		9686.61	0.00	9686.61
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 5th year		4865.20	0.00	4865.20
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 6th year		4865.20	0.00	4865.20
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 7th year		4865.20	0.00	4865.20
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 8th year		4865.20	0.00	4865.20
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 9th year		4865.20	0.00	4865.20
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 10th year		4865.20	0.00	4865.20
Grand Total :		163193.51	117804.43	280997.94

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.


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Kutch West Division, Bhuj

