Full Title of the project: Construction of 765 KV D/C Lakadiya-Banaskantha Transmission Line

Checklist No:-18

Proposal for diversion of 25.1315 Ha.of Forest land for laying 765 KV D/C Lakadiya-Banaskantha Transmission line, No.FP/GJ/TRANS/43664/2019,Dt.31/12/2019 under Forest Conservation Act-1980 in Associate General Manager,LAKADIYA-BANASKANTHA TRANSCO LTD. area in Kutch dist. of Gujarat State.

Detail of degraded forest land area identify for Compensatory Afforestation

<u>Sr.</u> no.	<u>District</u>	<u>Taluka</u>	<u>village</u>	Survey no.	area (ha.)	Type of land
1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>5</u>	7
1	Kachchh	Bhuj	Zumkha	136/pt	51.00	Forest area
Total area				. 92	51.00	
Forest area						

Place:- Bhuj-Kachchh.

Date:- 01/04/2020

(H.J.Thakkar)

Dy Conservator of Forest Kachchh East Division, Bhuj.

Full Title of the project: Construction of 765 KV D/C Lakadiya-Banaskantha Transmission Line

Annexure-19

Compensatory Afforestation Scheme for double degraded area

Proposal for diversion of 25.1315 Ha.of Forest land for laying 765 KV D/C Lakadiya-Banaskantha Transmission line, No.FP/GJ/TRANS/43664/2019, Dt.31/12/2019 under Forest Conservation Act-1980 in Associate General Manager, LAKADIYA-BANASKANTHA TRANSCO LTD. area in Kutch dist. of Gujarat State

Detailed scheme of Compensatory Afforestation for degraded area 51.00 ha. to be carried out in lieu of 25.1315 ha. of forest land to be diverted in Kutch district.

1. Details of degraded land.

Village	Zumkha
Taluka	Bhuj
Range	Bhuj South
District	Kutch
Division	Kutch East
Block/ Patal, Compartment No.	136/pt
Area to be afforested	51.00 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 Degraded Area.

4. Schedule of Plantation Programme:-

- (i) The Compensatory Afforestation on degraded 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 51.00 ha. area. The total afforestation cost will be about Rs.2,31,60,580/- Associate General Manager,LAKADIYA-BANASKANTHA TRANSCO 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:-

 $\label{thm:compensatory} Technical details of Compensatory Afforestation are as Follows: $$\15.168.1.5\e\FED\Surveyar\JAMAN\F C A\Lakdiya bans transco Itd\Modeal-3.docx$

Sr.	Details	Specifications				
No.						
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.90 per day.				
b	Spacement	3 X 3 mtr., 1111 plants per ha.				
С	Species to be planted	771	200	Minimum		
	(No. of plants per ha.)	Khair	300	planting height		
		Teak	100	will be 100 cm. at		
	e v	Bamboo Dala da Handa Anitha	100	the time of		
		Bahedo, Herde, Aritha	100	planting.		
		Haldu, Sadad, Arjun Sadad	100	However it will		
		Bhilamo,Kadayo,Sadad, Tandol etc.	100	vary for different		
			100	species.		
		Albizzia, Ficus, Jamun, Anjan,	100	species.		
		Neem, etc.	111	-		
	P 2	Bordi, Karanj, Khakhro & others	111			
	H	Total	1111	-		
d	Nursery Technique	Nine months old polypot raised plants will be planted at the				
u	Nuisery reclinique	onset of monsoon.	piants	viii se piantes at the		
e	Site Preparation	The malformed rootstock presen	t in the a	rea will be cutback &		
	Site i reparation	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 plan	nted durin	ng monsoon.		
g	Soil & Moisture	(i) Pucca structure like Check dan				
	Conservation Works	Contour trenches 2.00 x 0.45				
	** A9	along the contour line. the du				
		down ward side. Gully plugging & Nala Banding using The				
		loose stone available in the area will be carried out a				
		requirement. Seeds of Jatrop	ha, Agav	e plantsetc. will be		
		planted during monsoon in	the uppe	er side of nala as per		
	1	suitability.		1 J		
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	king, Sup	pport watering will be		
	Operations	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 Pla	antation u	ip to ten years.		

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.			
	is a second of the second of t	Forester – 100%			
	0	RFO - 100%			
		ACF - 20%			
	F	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.			
	d d	(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 4 th year.			
	,*	(vii) Third party monitoring mechanism is also in the State			
		and if the plantations in the sample selected, it will also be			
	2	monitored by the third party selected for this purpose.			
m	Regeneration cleaning	Cut-back and promotion of root suckers.			
n	Silviculture & other	Only afforestation aimed plantation will be taken up, as the area			
	activities	falls under degraded forest land.			

(H.J.Thakkar)

Dy Conservator of Forest Kachchh East Division, Bhuj.

The Compensatory Afforestation scheme at the cost of Rs.2, 31, 60,580/- is technically and administrative approved by the undersigned.

Dy. Conservator of Forests Kachchh East Division, Bhuj

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Compensatory Afforestration Scheme for Non-Forest Areas to be carried out in field of forest land to be proposal for diversion of 25.1315 Ha.of Forest land for laying 765 KV D/C Lakadiya-Banaskantha Transmission line, No.FP/GJ/TRANS/43664/2019, Dt.31/12/2019 under Forest Conservation Act-1980 in Associate General Manager, LAKADIYA-BANASKANTHA TRANSCO.LTD. area in Kutch dist. of Gujarat State in Gujarat Proposal Reg.

Daily wages Rs.310.40

1111 seedling / Ha 2nd year replacement 10 % = 111 seedling /ha 2nd year replacement 20 % = 111 seedling /ha 3rd year replacement 10 % = 111 seedling /ha 7rd year replacement 10 % = 111 seedling /ha 7rd year replacement 10 % = 111 seedling /ha 7rd year replacement 10 % = 111 seedling /ha 7rd year replacement 10 % = 111 seedling /ha 7rd year replacement 10 % = 111 seedling /ha 7rd year year year year year year year year	Spacements = 3 m x 3 m			1 9	
2nd year replacement 20 % = 111 seedling /ha	1111 seedling / Ha				
Strd year replacement 10 % = 111 seedling /ha	1st year replacement 10 % = 111 seedling /ha				
Total Seudings = 1333 seedling /ha Polypot size : 15 cm x 25 cm x 20					-
Polypot size : 15 cm x 25 cm x 200					
Item of work		·			
1					
Nursery Nursery Nursery Nursery Nursery Nursery (a) Cost of soil, manure, seeds, water, 1222 0 1830 1830 1830 1830 18					
Nursery		2	3	4	5
(a) Cost of soil, manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement) (b) labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc. (c) Seedling cost for casuality replacement in one year old (20%) (d) Seedling cost for casuality replacement in two year old (20%) (d) Seedling cost for casuality replacement in two year old (10%) Total					
Fartilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)		1000			
etc. (including 10 % for casuality replacement) (b) labour : Preparation of beds, filling and arranging of 1222		1	0	1830	1830
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc. (c) Seedling cost for casuality replacement in one year old (20%) (d) Seedling cost for casuality replacement in two year 111 709 211 920 old (10%) (d) Seedling cost for casuality replacement in two year 111 709 211 920 old (10%) (a) Survey, cutback and promotion of root suckers 3364 0 3364 0 3364 (b) Alignent and digging of pits 0.45 X 0.45 X 0.45 1111@6.00 9715 0 9715 Total 13079 0 13079 0 13079 (a) Natural fertilizer (Neem cake/ Castor cake) 1111@5.00 0 9910 9910 Total 1 9910 9910 Total 1 9910 9910 Total 1 9910 9910 Total 1 9910 9910 9910 9910 Total 1 9910 9910 9910 9910 Total 1 9910 9910 9910 9910 9910 Total 1 9910 9910 9910 9910 9910 9910 Total 1 9910 9910 9910 9910 9910 9910 9910 Total 1 9910 9910 9910 9910 9910 9910 9910 9					
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(c) Seedling cost for casuality replacement in one year old (20%) (d) Seedling cost for casuality replacement in two year old (10%) 111 709 211 920 (d) Seedling cost for casuality replacement in two year old (10%) 6602 2695 9297 Z. Area Development (Land Preparation) 6602 2695 9297 2. Area Development (Land Preparation) 3364 0 3364 (a) Survey, cutback and promotion of root suckers 3364 0 3364 (b) Aligment and digging of pits 0.45 X 0.45 X 0.45 1111@ 6.00 9715 0 9715 Total 13079 0 13079 0 13079 0 13079 0 13079 0 13079 0 13079 0 9910 9010 9910 9910 9010 9910 9910		1222	4478	232	4710
Old (20%) Old (20%) Old (10%) Old (10%) Old (10%) Total Old (10%) Old (10%		000			
(d) Seedling cost for casuality replacement in two year old (10%) 920 old		222	1415	422	1837
Dotd (10%) Total 6602 2695 9297 2. Area Development (Land Preparation) (a) Survey, cutback and promotion of root suckers 3364 0 3364 (b) Alignment and digging of pits 0.45 X 0.45 X 0.45 1111@ 6.00 9715 0 9715 Total 13079 0 13079 (a) Natural fertilizer (Neem cake/ Castor cake) 1111@ 5.00 0 9910 9910 9910 10 10					
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(a) Survey, cutback and promotion of root suckers 3364 0 3364 (b) Aligment and digging of pits 0.45 X 0.45 X 0.45 1111@6.00 9715 0 9715 Total 13079 0 13079 0 13079 (a) Natural fertilizer (Neem cake/ Castor cake) 1111@5.00 0 9910 9910 Total 0 9910 9910 9910 3. SMC Works 0 9910 9910 9910 (a) Check wall/ retaining wall /checkdem (all pucca only) L.S. 11953 23726 35679 (b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench) 600 rmt. 9097 0 9097 Rs.17.00/rmt (300 trench) 21050 23726 44776 4.Protection 4.Protection 44776 4. Protection 4.Bracked wire fencing L.S. 3568 35678 39246 (b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence 1110 477 1587 Glaricidia along the fence 1587 45409 72486 117895 1st Year 45409 72486 117895 1st Year </td <td></td> <td></td> <td>6602</td> <td>2695</td> <td>9297</td>			6602	2695	9297
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Total					
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Rs.17.00/rmt (300 trench) Total 21050 23726 44776	(b) Contour trench 2 M x 45 Cm x 30 Cm as per	600 rmt.	9097	0	9097
4. Protection (a) Barbed wire fencing L.S. 3568 35678 39246 (b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence 1110 477 1587 Total 4678 36155 40833 Sub Total of 0 year 45409 72486 117895 1st Year (a) Maintenance of nursery (April to June) 1222 3435 343 3778 (b) Transport of seedling for plantation 1111 18594 389 18983 (c) Planting with khamna of Min 1 m dia 1111 5791 0 5791 (d)Transport of seedling for casualty replacement 111 201 44 245 (e) 3 weeding cum soil working 1111 23583 0 23583 (f) Support watering 5 times @ 3.25 14430 20706 35136 (g) Protection / tending operation 4644 0 4644 (h) Tending to natural vegetation 1167 0 1167 (i) Contigency 0 1167 1167 Total for 1st year 71845 22470 94494		200 00000000000000000000000000000000000	500 SERVICES		
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(i) Contigency 0 1167 1167 Total for 1st year 71845 22470 94494 2nd Year 94494					
Total for 1st year 71845 22470 94494 2nd Year					
2nd Year					
(a) 2 weeding & soil working 12669 0 12669					J 110 T
	(a) 2 weeding & soil working		12669	0	12669

(b) 20 % Casually replecement, transport and planting	1111111	211	1040	1260
(c) Natural fertilizer (neem cake / caster cake) etc.	111+111 Rs.5/ plant	0	1049 11711	1260 11711
	NS.5/ plant			
(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	L.S.	8743	0	8743
operation				
Total for 3rd year		25595	18235	43830
4thYear				
(a) 1 weeding & soil working		7384	0	7384
(b) Protection & Maintenance of fencing/ Tending	L.S.	7298	0	7298
operation				
Total for 4th year		14682	0	14682
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	7785	0	7785
Total for 5th year		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				
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
		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.

Rute !- 30/04/2020

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

(H.J.Thakkar)

Dy Conservator of Forest
Kachchh East Division, Bhuj.