



GOVERNMENT OF ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER: LAKHIMPUR DIVISION
NORTH LAKHIMPUR

Letter No. FLKT/B/Diversion Proposal/ 2022/1861

Date: 22/04/2022

To,

✓ The Assistant Vice President,
Mumbai Urja Marg Limited
(Previously - Vapi II-North Lakhimpur Transmission Ltd.)
House no.95, Buragohain Building, 2nd Floor,
C. D. Road, North Lakhimpur, Assam-787001

Sub: **Proposal for diversion of 10.381 ha forest land for construction of 132 KV D/C Pare HEP to North Lakhimpur Transmission line by Vapi II-North Lakhimpur Transmission Limited under Lakhimpur forest division, North Lakhimpur: Demand note for payment of NPV, CA, Dwarf species plantation, Departmental operation of trees & pillar fixation charges.**

Ref:-
1. Proposal No. FP/AS/TRANS/149737/2021
2. MoEF, GoI letter no: F.NO.3 AS C 090/2022-GHY/2244-2245 dated 30th March 2022
3. FG.27/FCA/Proposal/Transmission Line/VAPI-II A dated 04.04.2022

Sir,

With reference to the subject cited above, Please find enclosed herewith the estimated cost of NPV, CA, and Dwarf species plantation against the proposal for diversion of 10.381 ha forest land within Ranga Reserve Forest, for construction of 132 KV D/C Pare HEP to North Lakhimpur Transmission line by Mumbai Urja Marg (Previously- Vapi II-North Lakhimpur Transmission Limited) in Lakhimpur Forest Division.

The detail breakup of the cost is as follows:

1. Compensatory Afforestation over 20.8 ha	: Rs. 92,35,866/-
2. Over head cost	: Rs. 46,17,933/-
3. Cost of NPV over 10.381 ha	: Rs. 1,49,14,071/-
4. Cost of Dwarf Species Plantation	: Rs. 27,96,729/-

Total Amount : Rs. 3,15,64,599/-

You are requested to deposit an amount of Rs. 3,15.64.599/- (Rupees Three Crore Fifteen Lakhs Sixty Four Thousand Five Hundred Ninety Nine) only to the account of CAMPA through e-portal by generating e-challan on the web portal (<https://parivesh.nic.in>) as mentioned in condition no. (2), (3) of the In-Principle approval letter.

Also furnished herewith the estimated cost of departmental tree extraction including felling, logging and transportation etc. along with the estimated cost of pillar posting for demarcation of forest area (attached as annexure-I) w.r.t. 10.381 ha forest land proposed for diversion in Ranga Reserve Forest of Lakhimpur Forest Division.

The detail breakup of the cost is as follows:

1. Estimated cost for departmental operation of trees	: Rs. 2,58,757/-
2. Estimated cost for pillar fixation (Corridor demarcation)	: Rs. 1,77,100/-

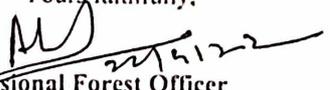
Total Amount : Rs. 4,35,857/-

Therefore, you are requested to deposit an amount of Rs. 4,35,857/- (Rupees Four Lakhs Thirty Five Thousand Eight Hundred Fifty Seven) only as per condition no. (11), (12) mentioned in the In-Principle approval letter to HDFC Bank, North Lakhimpur Branch, (Account No. 50100226973512. IFSC:-HDFC0002676) in favour of the Divisional Forest Officer, Lakhimpur Forest Division, North Lakhimpur at the earliest.

This is for of your information and necessary action.

Encl: As stated above.

Yours faithfully,


Divisional Forest Officer
Lakhimpur Forest Division
North Lakhimpur

Memo no. FLKT/A/Diversion Proposal/2022/

Date: 22/04/2022

Copy to:-

1. The Chief Conservator of Forest & N.O. (FCA), Aranyan Bhawan, Panjabari, Guwahati-37 for favour of his kind information.
2. The Conservator of Forests, Northern Assam Circle, Tezpur for favour of his kind information.

)
**Divisional Forest Officer
Lakhimpur Forest Division
North Lakhimpur**

Project: Construction of 132 kV D/C Pare HEP to North Lakhimpur Transmission line by Vapi II-
North Lakhimpur Transmission Limited in Ranga RF under Lakhimpur Forest Division.

A. Estimate for Departmental Tree Operation (felling, dragging, carrying etc.)

Extraction cost of trees = 75.002 cum @ Rs. 3450/- per cum = **Rs. 2,58,757.00/-**

(Rupees Two lakhs Fifty Eight Thousand Seven Hundred Fifty Seven only)

B. Estimate for R.C.C. Pillar purchasing, carrying, fitting, fixing etc. in 27-meter wide corridor for 3845 meter long distance under the proposed transmission line at Ranga RF.

1. No. of R.C.C. Pillars required to be posted at every 50 meters for demarcation of 3845 mtr length of the corridor (Size 5'' x 4'' x 6'') = 154 Nos.
2. Cost of purchasing 154 nos. Pillars @ Rs. 600/- per pillar = Rs. 92,400/-
3. Loading, unloading and carrying of pillars @ Rs. 300/- per pillar = Rs. 46,200/-
4. Soil digging, fitting, fixing pillars @ Rs. 250/- per pillar = Rs. 38,500/-

Total = Rs. 1,77,100/-

(Rupees One Lakh Seventy Seven Thousand One Hundred only)


22/11/22
Divisional Forest Officer
Lakhimpur Forest Division
North Lakhimpur

Scheme for 20.8 hae C.A. Plantation in Rangn RF against diversion of 10.381 hae Forest land for Construction of 132 kV D/C Pare HEP to Lakhimpur Transmission Line by Vapi II-North Lakhimpur Transmission Ltd under Lakhimpur Forest Division

ESTIMATE FOR 20.8 HA CA SCHEME BASED ON NORMS FOR 25 HA ARTIFICIAL REGENERATION (AR) PLANTATION

	Area (ha)	=	20.8						
	Spacing (m X m)	=	2 X 2						
	Number of Saplings/ ha	=	2500						
	Length of Fence (RM)	=	1951						
	Wage rate for the 1st year (Rs.)	=	320						
	Increase in wage rate for subsequent years by a factor	=	1.1						
	Appreciation of material costs by a factor	=	1.1						
S.No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)	Applicable rate of GST/Cess etc. (Rs.)		
							GST	Labour	
A	ERECTION OF FENCING								
	(a) Cost of full chain link fencing (4' ht with 10 gauge 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be filled on pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per detail specification attached at 2.5 m apart, including transportation, fitting and fixing for 1951 RM @ Rs. 1260 RM as per estimate.	RM		1951	1260	2,458,260.00			
	<i>Sub total</i>					2,458,260.00	345,385.53	24,582.60	
B	INFRASTRUCTURE IN PLANTATION AREA								
	Construction of camp hut with installation of ring well tube well	Nos.		1	225,000	225,000.00			
	Cost of tools and implements.	Set		1	10,000	10,000.00			
	Cost of RCC signboard & Gate including fitting and fixing of the same.	Nos.		1	40,000	40,000.00			
	Camp accessories @ Rs. 10,000 - per camp	Nos.		1	10,000	10,000.00			
	<i>Sub total</i>					285,000.00	34,200.00	2,850.00	
C	ADVANCE WORK (including site nursery)								
	Raising of Nursery for creation including vacancy filling for 3 (three) years (25% + 15% + 10%) and site nursery mortality 15% by using polypots	Nos.	4125	85800	10	858,000.00			
	Site selection, Surveying, demarcation, jungle cutting, slash disposal etc. 40 DLs/ha.	DLs	40	832	320	266,240.00			
	<i>Sub total</i>					1,124,240.00			
D	CREATION								
	Soil working, carnage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 50 DLs/ha	DLs	50	1040	320	332,800.00			
	<i>Sub total</i>					332,800.00			
E	1st YEAR MAINTENANCE								
	4 weedings, mulching and fire protection works @ 25 DLs/ha weeding.	DLs	100	2080	320	665,600.00			
	Maintenance and protection by way of deploying of watch and ward for site nursery & plantation area (2 DLs for 365 days)	DLs	2	730	320	233,600.00			
	Contingency	LS				2,500.00			
	<i>Sub total</i>					901,700.00			


Divisional Forest Officer
Lakhimpur Division

F	2nd YEAR MAINTENANCE								
	4 weeding, mulching and fire protection works @ 25 DLs ha weeding.	DLs	100	2080	320		65,600.00		
	25% Vacancy filling by 1 year old seedlings from nursery @ 28 DLs ha	DLs	28	382	320		186,368.00		
	Maintenance and protection by way of deploying of watch and ward for site nursery & plantation area (2 DLs for 365 days).	DLs	2	730	320		233,600.00		
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records and other misc. work	LS					10,000.00		
	Contingency	LS					10,000.00		
	<i>Sub total</i>						1,105,568.00		
G	3rd YEAR MAINTENANCE								
	4 weeding, mulching and fire protection works @ 20 DLs ha weeding	DLs	80	1664	320		532,480.00		
	15% Vacancy filling by 2 year old saplings from nursery @ 23 DLs ha	DLs	23	478	320		153,088.00		
	Maintenance and protection by way of deploying of watch and ward for site nursery & plantation area (2 DLs for 365 days).	DLs	2	730	320		233,600.00		
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc	LS			0		5,000.00		
	Contingency	LS					10,000.00		
	<i>Sub total</i>						934,168.00		
H	4th YEAR MAINTENANCE								
	3 weeding, fire protection works @ 15 DLs ha weeding.	DLs	45	936	320		299,520.00		
	Maintenance and protection by way of deploying of watch and ward for site nursery & plantation area (1 DLs for 365 days).	DLs	1	365	320		116,800.00		
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc.	LS					5,000.00		
	Contingency	LS					10,000.00		
	<i>Sub total</i>						431,320.00		
I	5th YEAR MAINTENANCE								
	Climber cutting, 3 weeding & other silvicultural works and fire protection works @ 15 DLs ha	DLs	45	936	320		299,520.00		
	Maintenance and protection by way of deploying of watch and ward for site nursery & plantation area (1 DLs for 365 days).	DLs	1	365	320		116,800.00		
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc.	LS					5,000.00		
	Contingency	LS					10,000.00		
	<i>Sub total</i>						431,320.00		
J	6th YEAR MAINTENANCE								
	Repairing of chainlink fencing	LS					25,000.00		
	1st mechanical thinning of alternate single strips in the plantation: 1250 nos. of stems ha.	DLs	62	1290	320		412,672.00		
	Climber cutting, other Silvicultural works and fire protection works @ 10 DLs ha	DLs	10	208	320		66,560.00		
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc	LS					5,000.00		
	Contingency	LS					9,000.00		
	<i>Sub total</i>						518,232.00		


 District Forest Officer
 Lakshimpur Division

K	7th YEAR MAINTENANCE								
	Chimber cutting, Silvicultural works and fire protection works @ 10 DLs ha	DLs	10	208	320	66,560.00			
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc.	LS				5,000.00			
	Contingency	LS				5,000.00			
	<i>Sub total</i>						76,560.00		
L	8th YEAR MAINTENANCE								
	Chimber cutting, Silvicultural works and fire protection works @ 10 DLs ha	DLs	10	208	320	66,560.00			
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc.	LS				5,000.00			
	Contingency	LS				5,000.00			
	<i>Sub total</i>						76,560.00		
M	9th YEAR MAINTENANCE								
	Chimber cutting, Silvicultural works and fire protection works @ 10 DLs ha	DLs	10	208	320	66,560.00			
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc.	LS				5,000.00			
	Contingency	LS				5,000.00			
	<i>Sub total</i>						76,560.00		
N	10th YEAR MAINTENANCE								
	Chimber cutting, Silvicultural works and fire protection works @ 10 DLs ha	DLs	10	208	320	66,560.00			
	Maintenance of camp hut, implements, upkeepment of plantation sign board, documentation, upkeepment of records etc.	LS				5,000.00			
	Contingency	LS				5,000.00			
	<i>Sub total</i>						76,560.00		
Total						8,828,848.00	379,585.53	27,432.60	
Total (including GST & labour cess)						9,235,866.13			
Over Head Cost (50% of Compensatory Afforestation)						4,617,933.07			
Grand Total						13,853,799			

(In Words Rupees One Crore Thirty Eight Lakhs Fifty Three Thousand Seven Hundred Ninety Nine Only)

NOTE:

- *Subject to actual measurement in the field.
 - **Subject to revision of scheduled of rates.
- The rates of fencing have been considered from CPWD norms as per Delhi Scheduled rates 2021.

Technically Approved


Conservation of Forest
Northern Assam Circle, Tezpur


Divisional Forest Officer
Lakhimpur Forest Division
North Lakhimpur
Division
Lakhimpur Division

SCHEME FOR DWARF SPECIES/MEDICINAL PLANTATION IN 1.2 HA AREA UNDER TRANSMISSION LINE CORRIDOR UNDER LAKHIMPUR FOREST DIVISION

(Diversion of 10.381 ha forest land for Construction of 132 kV D/C Pare HEP to Lakhimpur Transmission Line by Vapi II- North Lakhimpur Transmission Ltd under Lakhimpur Forest Division)

Total effective area of transmission line in Ranga RF : (3845 M X 27 M) = 10.381 Hac

Total effective area of transmission line in Lakhimpur Forest Division : 10.381 Hac

Tree cutting shall be allowed in two strips of 3 meters width each below both the conductors. Hence : (3 M-3 M) X 3845 = 2.30 Hac
total area available for plantation

among two strips, one 3 meters outer strip shall be left clear to permit maintenance activities of transmission line. Hence, free space for medicinal plantation shall be : 2.30 Hac / 2 = 1.15 Hac
Say 1.2 Hac

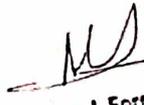
Total area to be covered by medicinal plantation 1.2 Hac

Estimation for 2 Ha Block Plantation

Spacing of plantation : 3 M X 3 M

Total No. of seedlings per block : 1100 hac X 2 = 2200 Nos.

ESTIMATE FOR 1 (ONE) BLOCK PLANTATION (2 HA)							
S. No.	Particular	Qty	Unit	Rate	Amount (Rs.)	Applicable rate of GST/Cess etc.	
						GST (14.05%)	Labour Cess (1%)
A	Advance work						
A.1							
1	Site selection survey, demarcation, jungle cutting, burning etc. 16 DLs/ ha = Total 32 DLs @ Rs. 320 -	32	DLs	320	₹ 10,240.00		
2	Procurement of stacking materials & making in to sticks & fixing at site @ 10 DLs ha = Total 20 DLs @ Rs. 320 -	20	DLs	320	₹ 6,400.00		
3	Cost of full G. P. F. fencing with 2 line barbed wire to be fitted on RCC pillars at 2Mt. apart including labour for 600 RM @ 720 per RM.	600	DLs	720	₹ 432,000.00	₹ 60,696.00	₹ 4,320.00
4	Wages of DLs for carrying, fitting, fixing etc of the fencing material complete as directed @ 25 DLs ha	50	DLs	320	₹ 16,000.00	₹ 2,248.00	₹ 160.00
5	Cost of tools, implements, sign boards etc including filling, fixing etc @ 500 - per ha.	2	L.S.	500	₹ 1,000.00		
Total					₹ 465,640.00	₹ 62,944.00	₹ 4,480.00
TOTAL FOR ADVANCE WORK					₹ 533,064.00		
A.2	1st year creation of Plantation and Maintenance (@ Rs. 320/DLs)						
1	Procurement of polypot seedling @ Rs. 7/- from departmental nursery to the plantation site.	2200	L.S.	7	₹ 15,400.00		
2	Transportation of polypot seedling from existing departmental nursery to the plantation site.		L.S.		₹ 4,000.00		
3	Wages for planting with missellaneous spp. Like Amlokhi, G. Neem, Kordoi, Sonaru etc with 3 M X 3 M spacing including carriage of seedling to the plantation site 20 DLs ha	40	DLs	320	₹ 12,800.00		
4	4 weeding, vacancy filling etc 30DLs ha	60	DLs	320	₹ 19,200.00		
5	Fire line protection @ 2 DLs ha	4	DLs	320	₹ 1,280.00		
6	Watering of seedlings @ 26 DLs/ha	52	DLs	320	₹ 16,640.00		
TOTAL FOR 1st YEAR					₹ 69,320.00		


Divisional Forest Officer
Lakhimpur Division

A.3	2nd year maintenance (@ Rs. 352/DLs)						
1	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	352	₹ 21,120.00		
2	Procurement of 500 Nos. of polypot seedlings @ Rs. 7/- per seedling for vacancy filling.	500	DLs	7	₹ 3,500.00		
3	Watering of seedlings @ 26 DLs/ha	52	DLs	352	₹ 18,304.00		
4	Fire line protection @ 2 DLs/ha	4	DLs	352	₹ 1,408.00		
5	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	1000	₹ 2,000.00		
	TOTAL FOR 2nd YEAR				₹ 46,332.00		
A.4	3rd year maintenance (@ Rs. 387/DLs)						
1	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	387	₹ 23,220.00		
2	Procurement of 500 Nos. of polypot seedlings @ Rs. 7/- per seedling for vacancy filling.	500	DLs	7	₹ 3,500.00		
3	Watering of seedlings @ 26 DLs/ha	52	DLs	387	₹ 20,124.00		
4	Repairing of fencing where necessary 3DLs/ha	6	DLs	387	₹ 2,322.00		
5	Fire line protection @ 2 DLs/ha	4	DLs	387	₹ 1,548.00		
6	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	1000	₹ 2,000.00		
	TOTAL FOR 3rd YEAR				₹ 52,714.00		
A.5	4th year maintenance (@ Rs. 426/DLs)						
1	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	426	₹ 25,560.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	426	₹ 1,704.00		
3	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	426	₹ 852.00		
	TOTAL FOR 4th YEAR				₹ 28,116.00		
A.6	5th year maintenance (@ Rs. 468/DLs)						
1	3 weeding, vacancy filling etc 27DLs/ha	54	DLs	468	₹ 25,272.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	468	₹ 1,872.00		
3	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	468	₹ 936.00		
	TOTAL FOR 5th YEAR				₹ 28,080.00		
A.7	6th year maintenance (@ Rs. 515/DLs)						
1	Clamber cutting & upkeep @ 6 DLs/ha	12	DLs	515	₹ 6,180.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	515	₹ 2,060.00		
3	Repairing of fencing where necessary 3DLs/ha	6	DLs	515	₹ 3,090.00		
4	Control burning 4 DLs/ha	8	L.S.	515	₹ 4,120.00		
	TOTAL FOR 6th YEAR				₹ 15,450.00		
A.8	7th year maintenance (@ Rs. 566/DLs)						
1	Pruning 6 DLs/ha	12	DLs	566	₹ 6,792.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	566	₹ 2,264.00		
3	Control burning 4 DLs/ha	8	L.S.	566	₹ 4,528.00		
	TOTAL FOR 7th YEAR				₹ 13,584.00		
A.9	8th year maintenance (@ Rs. 623/DLs)						
1	Pruning 6 DLs/ha	12	DLs	623	₹ 7,476.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	623	₹ 2,492.00		
3	Control burning 4 DLs/ha	8	L.S.	623	₹ 4,984.00		
	TOTAL FOR 8th YEAR				₹ 14,952.00		
A.10	9th year maintenance (@ Rs. 685/DLs)						
1	Pruning 6 DLs/ha	12	DLs	685	₹ 8,220.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	685	₹ 2,740.00		
3	Control burning 4 DLs/ha	8	L.S.	685	₹ 5,480.00		
	TOTAL FOR 9th YEAR				₹ 16,440.00		
A.11	10th year maintenance (@ Rs. 754/DLs)						
1	Pruning 6 DLs/ha	12	DLs	754	₹ 9,048.00		
2	Fire line protection @ 2 DLs/ha	4	DLs	754	₹ 3,016.00		
3	Control burning 4 DLs/ha	8	L.S.	754	₹ 6,032.00		
	TOTAL FOR 10th YEAR				₹ 18,096.00		
TOTAL PROJECT COST FOR TEN (10) YEARS (For 1 Block of 2 ha)					₹ 836,148		

Total for 1 Block of 2 ha area : Rs. 836148.00
Total for 1 Block of 1 ha area : Rs. 418074.00
Total for 1.2 ha (Effective area of plantation) : Rs. 501688.80
(A) : Rs. 501689

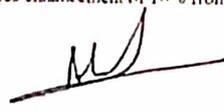

Ghanshyam Forest Officer
Laxmipatti Division

B Watch and Ward Expenditure						
1	Wages of watch and ward 1 No. for 365	365	DLs	320		
2	Wages of watch and ward 1 No. for 365	365	DLs	352	₹ 116,800	
3	Wages of watch and ward 1 No. for 365	365	DLs	387	₹ 128,480	
4	Wages of watch and ward 1 No. for 365	365	DLs	426	₹ 141,255	
5	Wages of watch and ward 1 No. for 365	365	DLs	468	₹ 155,490	
6	Wages of watch and ward 1 No. for 365	365	DLs	515	₹ 170,820	
7	Wages of watch and ward 1 No. for 365	365	DLs	566	₹ 187,975	
8	Wages of watch and ward 1 No. for 365	365	DLs	623	₹ 206,590	
9	Wages of watch and ward 1 No. for 365	365	DLs	685	₹ 227,395	
10	Wages of watch and ward 1 No. for 365	365	DLs	754	₹ 250,025	
TOTAL FOR WATCH AND WARD FOR TEN (10) YEARS					₹ 1,860,040	
C Overhead Expenditure						
1	Cost of construction of semi permanent camp hut 6 M X 4 M with C. I. sheet roofing with tubular structure with facilities of cooking and improvised sanitary latrines,	1	Nos	250000	₹ 250,000.00	
2	Purchase of 1 No. of motorcycle for movement of staff @ 60,000 -	1	Nos	60000	₹ 60,000.00	
3	Installation of 1 No. of tubewell for watering	1	L.S.	50000	₹ 50,000.00	
4	Installation of a solar lighting system for the	1	L.S.	25000	₹ 25,000.00	
5	Awareness and Monitoring	1	L.S.		₹ 20,000.00	
6	Office Expenses		L.S.		₹ 20,000.00	
7	Contingency		L.S.		₹ 10,000.00	
TOTAL OVERHEAD EXPENDITURE					₹ 435,000.00	
Grand Total (A+B+C) =		501689	1860040	435000	₹ 2,796,729	
(Rupees Twenty Seven Lakhs Ninety Six Thousand Seven Hundred Twenty Nine Only)						

11. B The above estimation has been done on the presumption of Annual wages enhancement of 10% from the prevailing wages rate of Rs. 320/- per unskilled labour.

Technically Approved


 Conservator of Forest
 Northern Assam Circle, Tezpur



Divisional Forest Officer
 Lakhimpur Forest Division
 North Lakhimpur
 Divisional Forest Officer
 Lakhimpur Division