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**ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME FOR
DIVERSION OF 11.1521HA OF FOREST LAND FOR WIDENING OF EXISTING
ROAD (NH 310A) TO NHDL SPECIFICATION WITH PAVED SHOULDER FROM
MANGAN TO CHUNGTHANG IN CHUNGTHANG UNDER CHUNGTHANG
TERRITORIAL RANGE IN NORTH SIKKIM BY BRO, GOVERNMENT OF INDIA.**

INTRODUCTION:

The **BRO** (User Agency) Govt. Of India, has proposed for Diversion of 11.1521ha of forest land for widening of existing road (NH 310A) to NHDL specification with paved shoulder from Mangan to Chungthang in Chungthang under Chungthang Territorial Range in North Sikkim by BRO, Government of India.

LOCATIONS / SITES FOR COMPENSATORY AFFORESTATION:

The proposed locations/site selected for Compensatory Afforestation Scheme (Block Plantation) is Khasmal land within the Chungthang Territorial Range. The areas need to be treated with priority to enhance the environment & ecology in the region. The proposed locations are as under:-

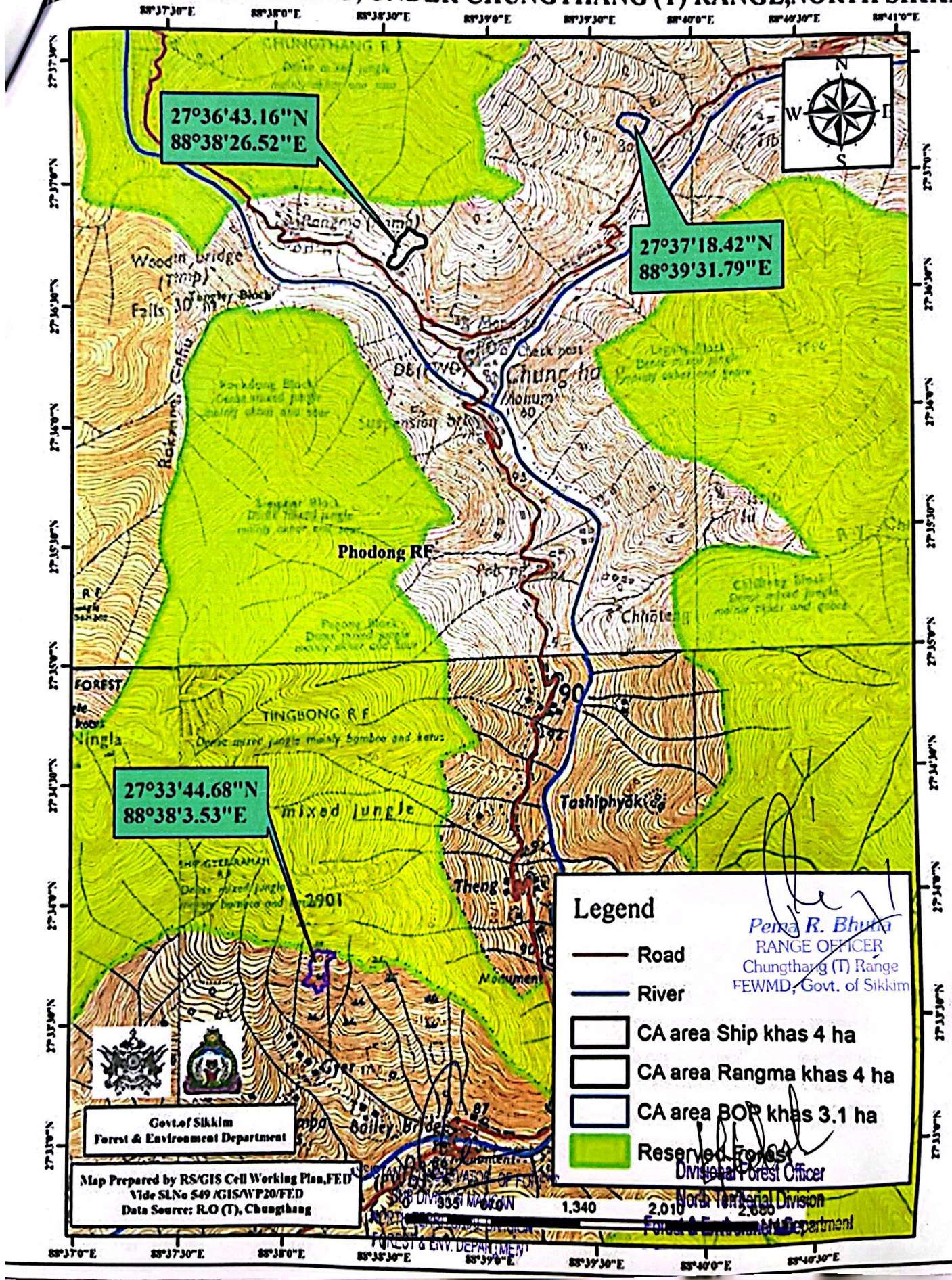
SI No	Range	Location	Block Plantation	GPS Coordinates	Fencing area in Km
1	Chungthang	Ship Khas	4Ha	88° 38' 3.53'' E 27° 33' 44.68'' N	1Km
2	Chungthang	Rangma Khas	4Ha	88° 38' 26.52'' E 27° 36' 43.16'' N	1Km
3.	Chungthang	BOP Khas	3.1Ha	88° 39' 31.79'' E 27° 37' 18.42'' N	1Km
			11.1Ha		3Km

Integrated approach for Block Plantation would be taken up in the above mentioned area. While implementing this scheme, if the above mentioned location needs to be changed based on technical ground and priority, due approval from the government would be taken before starting the works.

1. INTEGRATED PROGRAMME/METHODOLOGY OF WORKS FOR EXECUTION

- The seedlings requirement:** The seedlings required for the Block Plantation will be used from the nearest forest nursery on the payment of Department norms.
- Block Plantation:** The planting work will start in the month of May to July by preparing the site with cutting cleaning of bushes & digging of pits of size 45cmx45cmx45cm in a staggered manner.
- Choice of Sapling:** Locally suitable species like Siris, Uttis, Okhar and any other Suitable species will be raised in the pits.

**MAP SHOWING THE LOCATION OF CA AREA (11.1521 HA)
 SHIP KHAS, RANGMA KHAS & SHIP KHAS AGAINST THE DIVERSION LAND
 FOR ROAD WIDENING UNDER "BHARAT MALA PROJECT" FROM TOONG
 BRIDGE TO CHUNGTHANG, UNDER CHUNGTHANG (T) RANGE, NORTH SIKKIM.**



- d. **Fencing:** The area under the plantation will be fenced with Stone wall fencing usually locally available stone all around the plantation at vulnerable points. It is necessary to protect the plantation from biotic interference.
- e. **Protection:** The newly created afforestation shall be protected in biotic interference by providing Dry stone wall fencing at vulnerable point and locals as watch and wards. Entire stretches of forest area of high altitude area shall also be protected.
- f. **Maintenance:** The maintenance of plantation will be carried up to 10years for successful establishment of plantation.
- g. **Executing Agency:** The work will be executed by the Department.
- h. **Monitoring and Evaluation:** The monitoring and evaluation of the project will be done by the Regional Office, Meghalaya, Shillong, Government of India and State Forest Department, Government of Sikkim at interval.
- i. **Schedule of Time:** The work will be executed during the month of June & August in the year 2020-21 subject to availability of fund from User Agency in time.

2. FINANCIAL FORECAST:

Block Plantation: Area =10.6759Ha (Low Altitude)

SL. No	Activities	Unit	Approved SOR	Fin.Target(in Rupees)
A. Compensatory Afforestation				
(a)	Creation of Block Plantation of locally suitable species.	11.1521 Ha	37735.00	420824/-
(b)	Soil And Moisture Conservation (SMC)	11Ha	59288.00	652168/-
TOTAL=				1072992/-

B	MAINTENANCE OF BLOCK PLANTATION	Amount (in Rs.)
(a)	Maintenance of 2 nd (Twice a year): Two weeding in 2 nd year=11.1521 Ha x @ Rs. 8227/-x 2	183496.6534
(b)	Maintenance 3 rd year One weeding in 3 rd year= 11.1521 Ha x @ Rs.8227/- x1	91748.3267
(c)	Maintenance 4 th year Single weeding in 4 th year= 11.1521 Ha x @ Rs.4360/-x1	48623.156
(d)	Maintenance 5 th year Single weeding in 5 th year= 11.1521 Ha x @ Rs.4360x1	48623.156
(e)	Maintenance 6 th year Single weeding in 6 th year=11.1521 Ha x @Rs.4360	48623.156
(f)	Maintenance 7 th year Single weeding in 7 th year=11.1521 Ha x@ Rs.3182	35485.9822
(g)	Maintenance 8 th year Single weeding in 8 th year=11.1521 Ha x@ Rs.3182	35485.9822
(h)	Maintenance 9 th year Single weeding in 9 th year=11.1521 Ha x@ Rs.3182	35485.9822
(i)	Maintenance 10 th year Single weeding in 10 th year=11.1521 Ha x@ Rs.3182	35485.9822
TOTAL(B)=		563058.3769

C	FOR PROTECTION	
I	Dry stone fencing 3Km @ Rs. 9,54,600/km	28,63,800/-
II	Engagement of Plantation Supervisor 5Nos 320/day for 7Years	40,88,000/-
	Total (C)=	69,51,800/-
	TOTAL (A+B+C)	8587850.87
D	Over Head/ Monitoring & Evaluation/ Contingencies	
Sl. No.	Particulars	Amount (in Rs.)
I	Office Expenses, Stationery, TA/DA, Repair of vehicle/ computer etc. @ 10% of above	858785.087
II	Monitoring & Evaluation @ 2% of above	171757.0174
III	Contingencies @ 4 % of above	343514.0348
	Total D	1374056.139
	TOTAL (A+B+C+D) =	9961907.01
		99,61,907/-

(Rupees: Ninety nine Lakh Sixty one thousand Nine hundred and Seven only)

Assistant Conservator of Forest
North Territorial Division
SUB DIVISION MANGAN
NORTH TERRITORIAL DIVISION
FOREST & ENV. DEPARTMENT

Blen T. Targain, SFS
Joint Director of Forests
(FCA CELL)
Forests and Environment Department
Government of Sikkim

Divisional Forest Officer
North Territorial Division
Divisional Forest Officer
North Territorial Division
Forests and Environment Department

Technical sanction/approval is
accorded to the estimate for
Compensatory Afforestation
Scheme of Rs. 99,61,907/-