

**ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME FOR DIVERSION OF 10.6759HA OF FOREST LAND FOR WIDENING OF EXISTING ROAD (NH 310A) TO NHDL SPECIFICATION WITH PAVED SHOULDER FROM MANGAN TO CHUNGTHANG IN MANGAN UNDER MANGAN TERRITORIAL RANGE IN NORTH SIKKIM BY BRO, GOVERNMENT OF INDIA.**

**INTRODUCTION:**

The BRO(User Agency) Govt. Of India, has proposed for Diversion of 10.6759ha of forest land for widening of existing road (NH 310A) to NHDL specification with paved shoulder from Mangan to Chungthang in Mangan under Mangan 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 Sawrey (Phodong RF) within the Mangan Territorial Range. The areas need to be treated with priority to enhance the environment & ecology in the region. The proposed locations are as under:-

Sl No	Range	Location	Block Plantation	GPS Coordinates	Fencing area in Km
1	Mangan	Sawrey	10.6759Ha	88° 34' 29.91" E 27° 29' 8.57" N	3Km
			10.6759Ha		3Km

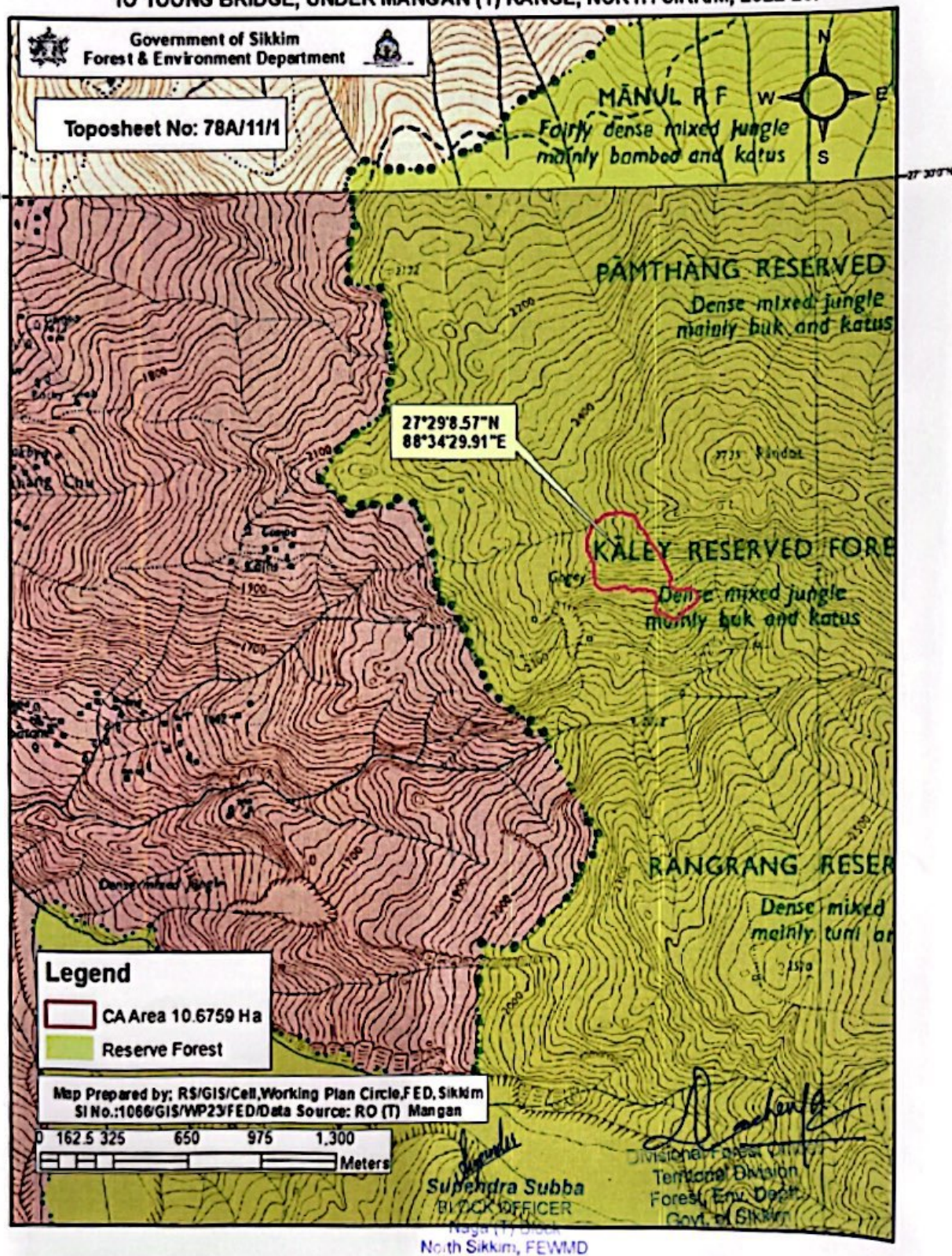
Integrated approach for Block Plantation would be taken up in the above mentioned area. While implementing this scheme, if the above mentioned location needs to be changed based on technical ground and priority, due approval from the government would be taken before starting the works.

**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.
- Fencing:** The area under the plantation will be fenced with Stone wall fencing usually locally available stone all around the plantation at venerable points. It is necessary to protect the plantation from biotic interference.
- Protection:** The newlycreated 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.
- Maintenance:** The maintenance of plantation will be carried up to 10years for successful establishment of plantation.



MAP SHOWING THE LOCATION OF CA AREA (10.6759 HA) AT SAWREY (KALEY RF) AGAINST THE DIVERSION LAND FOR ROAD WIDENING UNDER "BHARAT MALA PROJECT" FROM MANGAN TO TOONG BRIDGE, UNDER MANGAN (T) RANGE, NORTH SIKKIM, 2022-23.





- 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)
<b>A. Compensatory Afforestation</b>				
(a)	Creation of Block Plantation of locally suitable species.	10.6759Ha	37735.00	4,02,855/-
(b)	Soil And Moisture Conservation (SMC)	10Ha	59288.00	5,92,880/-
<b>TOTAL (A)</b>				<b>9,95,735/-</b>

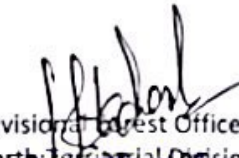
B	MAINTENANCE OF BLOCK PLANTATION	Amount (in Rs.)
(a)	Maintenance of 2 <sup>nd</sup> (Twice a year): Two weeding in 2 <sup>nd</sup> year = 10.6759Ha x @ Rs. 8227/- x 2	1,75,661/-
(b)	Maintenance 3 <sup>rd</sup> year One weeding in 3 <sup>rd</sup> year = 10.6759Ha x @ Rs.8227/- x 1	87,831/-
(c)	Maintenance 4 <sup>th</sup> year Single weeding in 4 <sup>th</sup> year = 10.6759Ha x @ Rs.4360/- x 1	46,547/-
(d)	Maintenance 5 <sup>th</sup> year Single weeding in 5 <sup>th</sup> year = 10.6759Ha x @ Rs.4360 x 1	46,547/-
(e)	Maintenance 6 <sup>th</sup> year Single weeding in 6 <sup>th</sup> year = 10.6759Ha x @ Rs.4360	46,547/-
(f)	Maintenance 7 <sup>th</sup> year Single weeding in 7 <sup>th</sup> year = 10.6759Ha x @ Rs.3182	33,971/-
(g)	Maintenance 8 <sup>th</sup> year Single weeding in 8 <sup>th</sup> year = 10.6759Ha x @ Rs.3182	33,971/-
(h)	Maintenance 9 <sup>th</sup> year Single weeding in 9 <sup>th</sup> year = 10.6759Ha x @ Rs.3182	33,971/-
(i)	Maintenance 10 <sup>th</sup> year Single weeding in 10 <sup>th</sup> year = 10.6759Ha x @ Rs.3182	33,971/-
<b>TOTAL(B)=</b>		<b>5,39,016/-</b>
C	FOR PROTECTION	
I	Dry stone fencing 3Km @ Rs. 9,54,600/km	28,63,800/-
II	Engagement of Plantation Supervisor 4Nos 320/day for 7Years	32,70,400/-
<b>Total (C)=</b>		<b>61,34,200/-</b>
<b>TOTAL A+B+C</b>		<b>76,68,951/-</b>

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	7,66,895/-
II	Monitoring & Evaluation @ 2% of above	1,53,379/-
III	Contingencies @ 4 % of above	3,06,758/-
	<b>Total D</b>	<b>12,27,032/-</b>
	<b>TOTAL (A+B+C+D) =</b>	<b>88,95,983/-</b>

Rupees (Eighty Eight Lakh Ninety five thousand Nine hundred and Eighty three) 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)

  
 Divisional Forest Officer  
 North Territorial Division  
 District Forest Officer  
 North Territorial Division  
 Forest & Environment Department

To Forests and Environment Department  
 Government of Sikkim

accorded to the estimate for

Compensatory Afforestation

Scheme of Rs. 88,95,983/-