

ESTIMATE FOR COMPENSATORY AFFORESTATION SCHEME FOR DIVERSION OF 0.01HA OF FOREST LAND FOR INSTALLATION OF HYDROLOGICAL AND METROLOGICAL STATION UNDER NATIONAL HYDROLOGICAL PROJECT AT YUMTHANG, LACHUNG (T) RANGE IN MANGAN DISTRICT OF SIKKIM BY WATER RESOURCE DEPARTMENT, GOVERNMENT OF SIKKIM

INTRODUCTION:

The WRD (User Agency) Government of Sikkim has proposed for diversion of 0.01ha of Forest land for Installation of Hydrological and Metrological Station under National Hydrological Project at Yumthang, Lachung (T) Range in Mangan District of Sikkim by Water Resource Department, Government of Sikkim

LOCATIONS / SITES FOR COMPENSATORY AFFORESTATION:

The proposed locations/site selected for Compensatory Afforestation Scheme (Block Plantation) is Reserve Forest land within the Lachung 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 |
|-------|---------|------------|------------------|------------------------------|
| 1 | Lachung | Lachung RF | 1Ha | 27°48'15.56" 88°42'10.56" |
| | | TOTAL= | 1Ha | |

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

- a. **The seedlings requirement:** The seedlings required for the Block Plantation will be used from the nearest forest nursery on the payment of Department norms.
- b. **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.
- c. **Choice of Sapling:** Locally suitable species like Kutki, Sikkim sundari and any other Suitable species will be raised in the pits.

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.

4. Revised Cost Structure & Financial Forecast for CA Scheme.

(A) Block Plantation (Artificial Regeneration)

Block Plantation: Area = 1Ha (High Altitude)

| Sl.No | Particular | Area(ha/km) | Rate | Amount |
|--------------------|--|-------------|----------------|--------------------|
| (i) (a) | Cost of Block Plantation (including casualty replacement and weeding during the planting year) | 1.00 | ₹ 93,302.00 | ₹ 93,302.00 |
| (b) | Carriage of Seedling | 1.00 | ₹ 3,500.00 | ₹ 3,500.00 |
| (ii) | Providing and Laying Dry stone wall fencing as per direction including carriage of stones up to worksite | 0.048 | ₹ 15,14,355.00 | ₹ 72,689.04 |
| (iii) | Soil and Moisture Conservation work through vegetative measure ha | 0.405 | ₹ 1,34,596.00 | ₹ 54,511.38 |
| Sub-total-A | | | | 2,24,002.42 |

(B) Maintenance for 10 years

| Sl.No | Particulars | Area(ha) | Rate(Rs./Ha) | | Amount (In rupees) |
|------------------------|---|----------|--------------|-------------|----------------------|
| 1 | 1st year maintenance | 1 | 2 | ₹ 26,916.00 | ₹ 53,832.00 |
| 2 | 2nd year maintenance | 1 | 2 | ₹ 20,468.00 | ₹ 40,936.00 |
| 3 | 3rd year maintenance | 1 | 2 | ₹ 20,468.00 | ₹ 40,936.00 |
| 4 | 4th year maintenance | 1 | 1 | ₹ 10,900.00 | ₹ 10,900.00 |
| 5 | 5th year maintenance | 1 | 1 | ₹ 10,900.00 | ₹ 10,900.00 |
| 6 | 6th year maintenance | 1 | 1 | ₹ 10,900.00 | ₹ 10,900.00 |
| 7 | 7th year maintenance | 1 | 1 | ₹ 7,954.00 | ₹ 7,954.00 |
| 8 | 8th year maintenance | 1 | 1 | ₹ 7,954.00 | ₹ 7,954.00 |
| 9 | 9th year maintenance | 1 | 1 | ₹ 7,954.00 | ₹ 7,954.00 |
| 10 | 10th year maintenance | 1 | 1 | ₹ 7,954.00 | ₹ 7,954.00 |
| 11 | maintenance of dry stone wall for next 4 years (10 % of the cost) | 72,689 | | 10% | ₹ 7,268.90 |
| Sub-total-B | | | | | ₹ 2,07,488.90 |
| Sub-total-(A+B) | | | | | ₹ 4,31,491.32 |

(C) Over Head/monitoring & Evaluation/Contingencies

| Sl.No | Particular | Area(ha) | Rate | Amount |
|----------------------------|---|----------|---------------|----------------------|
| 1 | Office expenses, stationery, TA/DA, repair of vehicles | 5% | ₹ 4,31,491.32 | ₹ 21,574.57 |
| 2 | Monitoring & evaluation of scheme/project by the Central Government as well as by the State Government. | 2% | ₹ 4,31,491.32 | ₹ 8,629.83 |
| 3 | Contingencies & unforeseen expenditure | 4% | ₹ 4,31,491.32 | ₹ 17,259.65 |
| Sub-total-C | | | | ₹ 47,464.05 |
| Grand Total (A+B+C) | | | | ₹ 4,78,955.37 |

(Rupees Four lakhs Seventy eight thousand Nine hundred and Fifty five only)


 Divisional Forest Officer
 Territorial Division Mangan
 Mangan Division
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 Forest & Environment Department

MAP SHOWING THE LOCATION OF PROPOSED CA AREA OF 1 HA AT LACHUNG RF AGAINST THE DIVERSION OF FOREST LAND FOR CONSTRUCTION OF HYDROLOGICAL AND METEOROLOGICAL STATION AT YUMTHANG BY IRRIGATION & FLOOD CONTROL DEPT. UNDER LACHUNG (T) RANGE.

