

# Compensatory Afforestation Scheme

Proposal for Compensatory Afforestation Scheme in respect of Diversion of Forest land for construction of road from Sadam Pwd road to Murchal in South Sikkim.

Area of project need diversion - 0.207 ha.

## 1 Introduction

Proposal pertains to Compensatory Afforestation Scheme in respect of Diversion of 0.207 ha of forest land for construction of road from Sadam PWD road to Murchal in South Sikkim

So, based on the rule, twice the area, i.e 0.207 ha needs to be proposed for the raising compensatory afforestation i.e.,  $0.207 \times 2 = 0.414$  ha, is proposed to make good the loss of forest and to maintain ecological balance in the area.

## 2 Selection of Site / Location

| Sl. No. | Location     | Range            | Plantation area (ha.) | Fencing (in km) | SMC Work (in ha.) | Division                   | Remarks |
|---------|--------------|------------------|-----------------------|-----------------|-------------------|----------------------------|---------|
| i.      | U. Sadam     | Namchi (T) Range | 0.414                 | 0.2484          | 0.1035            | South Territorial Division |         |
|         | <b>Total</b> |                  | 0.414                 | 0.2484          | 0.1035            |                            |         |

## 3 Integrated Programme and Methodology for execution of Works

### i) Block Plantation

An integrated approach with plantation, Soil & Moisture Conservation and Protection work would be adopted on the degraded Forest land is proposed. The spacing may be 2 m x 2m with pit size of 45 cm x 45 cm depending upon the actual ground condition having an average of 1100 nos. of seedling per hectare.

### ii) Fencing & Protection

The area proposed for plantation shall be demarcated by stone wall fencing to minimize the biotic interference from cattle and other for the better survival and establishment. Also, the watch and ward may be engaged as and when required for protection and other plantation related work as well as for extension work.

### iii) Seedling Requirement

The requirement of seedlings may be met from the existing nurseries of the Forest Department on payment basis as per the basis approved rates or other sources (if the former option is not available).

### iv) Choice of Species

Mixed plantation of site-specific timber, wild edible fruit bearing trees, firewood and fodder species will be taken up along with vegetative measures for Soil & Moisture Conservation work.

### v) Soil & Moisture Conservation

Soil and Moisture Conservation work over 25 % of the area of entire under the scheme is proposed.

### vi) Executing Agency

South Territorial Division may execute the work under the supervision of State FCA Cell.

### vii) Time Schedule

Schedule of work maybe in the financial year 2020-21 subject to availability of fund in time from the User Agency.

**viii) Transfer of Fund**

The user agency shall transfer the fund to the department of Forest Environment & Wildlife Management, Government of Sikkim as per the directives of the Hon'ble Supreme Court & Government of India in this respect.

**ix) Monitoring & Evaluation**

Forest, Environment & Wild life Management Deptt., Govt. of Sikkim and the Regional Office, MOEF & CC, Govt. of India shall take up the monitoring & evaluation of the works.

**4 Cost structure & financial forecast/ work programme**

**(A) Advance work & creation**

| Sl. No.       | Particulars   | Qty    | Unit | Rate/unit | Amount (in rupees) |
|---------------|---|--------|------|-----------|--------------------|
| i             | Cost of block plantation (including seedlings for casualty filling and weeding during the planting year). | 0.414  | Ha.  | 37,735    | 15,622             |
| ii            | Dry stone wall fencing  | 0.2484 | Km   | 954,600   | 237,123            |
| iii           | Soil & Moisture Conservation work through vegetative measures (in 25% of total plantation area)           | 0.1035 | Ha.  | 54,770    | 5,669              |
| iv            | Cost of growing seedling including the cost of nursery inputs etc. (Complete).                            | 0.14   | Ha   | 871,813   | 120,310            |
| Sub Total (A) |   |        |      |           | 378,724            |

**(B) Maintenance for 10 years**

| Sl. No. | Particulars                        | Qty   | Unit | Rate/unit | Amount (in rupees) |
|---------|------------------------------------|-------|------|-----------|--------------------|
| i.      | 1st Year Maintenance of plantation | 0.414 | Ha.  | 10,847    | 4,491              |
| ii.     | 2nd year maintenance of plantation | 0.414 | Ha.  | 8,227     | 3,406              |
| iii.    | 3rd year maintenance of plantation | 0.414 | Ha.  | 5,719     | 2,368              |
| iv      | 4th year maintenance of plantation | 0.414 | Ha.  | 4,360     | 1,805              |
| v       | 5th year maintenance of plantation | 0.414 | Ha.  | 4,360     | 1,805              |
| vi      | 6th year maintenance of plantation | 0.414 | Ha.  | 4,360     | 1,805              |
| vii     | 7th year maintenance of plantation | 0.414 | Ha.  | 4,360     | 1,805              |
| viii    | 8th year maintenance of plantation | 0.414 | Ha.  | 4,360     | 1,805              |
| ix      | 9th year maintenance of plantation | 0.414 | Ha.  | 4,360     | 1,805              |

|                        |   |       |     |       |                |
|------------------------|---|-------|-----|-------|----------------|
| x                      | 10th year maintenance of plantation         | 0.414 | Ha. | 4,360 | 1,805          |
| xi.                    | Maintenance of Dry Stone wall (10% of cost) |       |     |       | 23,712         |
| <b>Sub Total (B)</b>   |   |       |     |       | <b>46,612</b>  |
| <b>Sub Total (A+B)</b> |   |       |     |       | <b>425,336</b> |

**(C) Overhead expenses/ monitoring & evaluation and contingencies**

| Sl. No.                   | Particulars   | Rate/unit | Amount (in rupees) |
|---------------------------|---|-----------|--------------------|
| i                         | Office expenses, stationery, TA/DA, repair of vehicles  | 5%        | 21,267             |
| ii                        | Monitoring & Evaluation of scheme/project by the Central Government as well as by the State Government. | 2%        | 8,507              |
| iii                       | Contingencies & unforeseen expenditure  | 4%        | 17,013             |
| iv                        | Add 30 % increased cost above SOR 2013 on (A+B)   | 30%       | 127600.70          |
| <b>Sub Total (C)</b>      |   |           | <b>174,388</b>     |
| <b>Total Cost (A+B+C)</b> |   |           | <b>599,723</b>     |

**Rupees(five lakh ninety nine thousand seven hundred twenty three) only**

The above proposal is based on the current schedule of rates and in case of upward revision of the rates in wages, the above Compensatory Afforestation Scheme shall be revised as per the revised rate of the State Government, for which the project authorities will have to bear the additional amount, if any.

The above amount shall be paid and transferred by the User Agency to the Department of Forest, Environment & Wildlife Management, Government of Sikkim for the implementation of the scheme against the project.

  
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