

# Compensatory Afforestation Scheme

Proposal for Compensatory Afforestation Scheme in respect of diversion of 25.82 ha. of forest land for Construction of road from Sopakha Village to Chewabhanjyang, in West Sikkim by Roads & Bridges Department Government of Sikkim

Area of project need diversion - 25.82 ha.

## 1 Introduction

Construction of road from Sopakha Village to Chewabhanjyang, in West Sikkim by Roads & Bridges Department Government of Sikkim requires diversion of 25.82 ha. of forest land.

So, based on the rule twice the area needs to be proposed for the compensatory afforestation i.e.,  $25.82 \times 2 = 51.64$  ha. is proposed to make good 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
i.	Maniping RF	Dentam (T)	21.48	12.888	10.74	West Territorial Division
ii.	Maniping RF		11	6.6	5.5	
iii.	Barsey Rhododendron Sanctuary (Kalijhar)	Dentam (WL)	19.16	11.496	9.58	West Wildlife Division
			51.64	30.984	25.82	

## 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 e.g. Rani Chanp, Machilus edulis, Rhododendron arboreum, Pipli (Bucklandia populnae), phusrey chanp, etc. 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

West Territorial Division/ West Wildlife Division may execute the work under the supervision of State FCA Cell.

**vii) Time Schedule**

Schedule of work maybe in the financial year 2017-18 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).	51.64	Ha.	54,117	2,794,602
ii	Dry stone wall fencing	30.984	Km	871,440	27,000,697
iii	Soil & Moisture Conservation work through vegetative measures (in 25% of total plantation area)	25.82	Ha.	67,065	1,731,618
iv	Cost of growing seedling including the cost of nursery inputs etc. (Complete).	6.455	Ha	434,234	2,802,983
	<b>Sub Total (A)</b>				<b>34,329,900</b>

**(b) Maintenance for 7 years**

Sl. No.	Particulars	Qty	Unit	Rate/unit	Amount (in rupees)
i	2nd year maintenance of plantation	51.64	Ha.	9,234	476,844
ii	3rd year maintenance of plantation	51.64	Ha.	5,890	304,160
iii	4 th year maintenance of plantation	51.64	Ha.	4,501	232,432
iv	5th year maintenance of plantation	51.64	Ha.	4,501	232,432
v	6th year maintenance of plantation	51.64	Ha.	4,501	232,432
vi	7th year maintenance of plantation	51.64	Ha.	4,501	232,432
vii	Maintenance of Dry Stone wall (10% of cost)	27,000,697		0.10	2,700,070
	<b>Sub Total (B)</b>				<b>4,410,800</b>
	<b>Sub Total (A+B)</b>				<b>38,740,699</b>




(c) Overhead expenses/ monitoring & evaluation and contingencies

Sl. No.	Particulars	Rate/unit	Amount (in rupees)
i	Office expenses, stationary, TA/DA, repair of vehicle	2%	774,814
ii	Monitoring & Evaluation of scheme/project by the Central Government as well as by the State Government.	2%	774,814
iii	Contingencies & unforeseen expenditure	4%	1,549,628
iv	Add 15 % increased cost above SOR 2013 on (A+B)	15%	5811104.92
Sub Total (c)			8,910,361
Total Cost (A+B+C)			47,651,060

Rupees:Four crores Seventy six Lakhs fifty one thousand and sixty.

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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