

Compensatory Afforestation Scheme

Proposal for Compensatory Afforestation Scheme in respect of Diversion of Forest land for Rehabilitation and Up-gradation to 2 lane with Paved shoulder of NH - 510 (Singtam-Tarku-Rabongla-Legship-Gyalshing) Package -IV (Design Chainage from KM 33 + 600 to KM 58 + 840) in the State of Sikkim.

Area of project need diversion - 13.6755 ha.

1 Introduction

Proposal pertains to Compensatory Afforestation Scheme in respect of Diversion of Forest land for Rehabilitation and Up-gradation to 2 lane with Paved shoulder of NH - 510 (Singtam-Tarku-Rabongla-Legship-Gyalshing) Package -IV (Design Chainage from KM 33 + 600 to KM 58 + 840) in the State of Sikkim

So, based on the rule, twice the area, i.e 13.6755 ha needs to be proposed for the raising compensatory afforestation i.e., $13.6755 \times 2 = 27.35$ 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.)	SMC Work (in ha.)	DryStone Wall Fencing	Division	Remarks
i.	Tendong RF & Deorali RF	Namchi (T)	27.35	6.8375	16.41	South Territorial Division	
	Total		27.35	6.8375	16.41		

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

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 Department, 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).	27.35	Ha.	37,735	1,032,052
ii	Soil & Moisture Conservation work through vegetative measures (in 25% of total plantation area)	6.84	Ha.	54,770	374,627
iii.	Dry Stone Wall Fencing	16.40 15km	KM	954,600	15,655,440
Sub Total (A)					17,062,119 1,09,70,67

(B) Maintenance for 10 years

Sl. No.	Particulars	Qty	Unit	Rate/unit	Amount (in rupees)
i.	1st Year Maintenance of plantation	27.35	Ha.	10,847	296,665
ii.	2nd year maintenance of plantation	27.35	Ha.	8,227	225,008
iii.	3rd year maintenance of plantation	27.35	Ha.	8,227 5,719	156,415
iv	4th year maintenance of plantation	27.35	Ha.	6,540 4,360	119,246
v	5th year maintenance of plantation	27.35	Ha.	6,540 4,360	119,246
vi	6th year maintenance of plantation	27.35	Ha.	6,540 4,360	119,246
vii	7th year maintenance of plantation	27.35	Ha.	4,772 4,360	119,246
viii	8th year maintenance of plantation	27.35	Ha.	4,772 4,360	119,246
ix	9th year maintenance of plantation	27.35	Ha.	4,772 4,360	119,246

956400/-
1,09,70,67
225,008/-
1,78,869/-
1,78,869/-
1,78,869/-
1,30,514/-
1,30,514/-
1,30,514/-

x	10th year maintenance of plantation	27.35	Ha.	4,360 ¹⁷⁷⁹²	119,246
Sub Total (B)					1,512,811
Sub Total (A+B)					18,574,930

1,30,514/-
18,05,346/-
1,27,76,025/-

(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%	928,746
ii	Monitoring & Evaluation of scheme/project by the Central Government as well as by the State Government.	2%	371,499
iii	Contingencies & unforeseen expenditure	4%	742,997
iv	Add 80% increased cost above SOR 2013 on (A+B)	30%	5572478.88
Sub Total (C)			7,615,721
Total Cost (A+B+C)			261,90,151

6,38,801/-
2,55,821/-
5,11,041/-
14,05,363/-
1,41,81,388/-

Rupees ~~two crore sixty one lakh ninety thousand six hundred fifty one~~ only

one forty eight three eighty eight

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.



*Technical sanction/Approval is
accorded to the estimate for
Compensatory Afforestation*

*scheme of Rs. 1,41,81,388/-
1,41,81,388/-*



Divisional Forest Officer
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Namchi, South Sikkim
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