

**GOVERNMENT OF MEGHALAYA**  
**OFFICE OF THE DIVISIONAL FOREST OFFICER::SOCIAL FORESTRY & TERRITORIAL DIVISION**  
**SOUTH GARO HILLS, BAGHMARA**

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**Compensatory Afforestation Scheme**

The Compensatory Afforestation Scheme are prepared based on Forest (Conservation) Act, 1980 and Forest Conservation Rules, 2003 (Guidelines & clarifications) as per para 2.6 & 2.8 of Chapter 2 of Compensatory Afforestation. The forest land required by the User Agency is 0.01 ha, however as per the Chapter 2 of above para 2.6, the minimum number of trees to be planted is 100 nos. The CA scheme is being prepared for 0.1 ha area to plant 100 no. of trees.

Site: Rongkrekgttim area under Baghmara Reserve Forest

Area: 0.1 ha

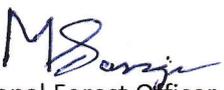
Species to be planted:  
(Miscellaneous plantation) Jamun, Gamari, Jarul, Teak, etc.

No. of trees to be planted: 100 nos.

Compartment no.: 2

Working Circle as per Working Plan: The Compartment no.2 falls under the following Working Circles:  
The Plantation Working circle, The Forest Protection Working circle, The Joint Forest Management Working circle, The Non Timber Forest Produce Working circle and the Wildlife Management Working circle.

Total Cost (detailed enclosed): ₹ 3, 63,907.00  
Rupees (Three lakhs sixty three thousand nine hundred seven) only

  
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Social Forestry & Territorial Division  
South Garo Hills, Baghmara  
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**Social Forestry & Territorial Division**  
**South Garo Hills, Baghmara.**

### ABSTRACT COST

Proposal for Compensatory Afforestation Scheme at Baghmara RF against the diverted Forest land for setting up of Hydrological Observation Station by Water Resources Department, Baghmara.

Sl no.	Particulars/Item of work	Amount
1	Creation of 2 beded polypot nursery	₹ 23,406.00
2	2nd Year Maintenance of 2 beded polypot nursery	₹ 1,914.00
3	Advance work for creation of Misc. Plantation 0.1 Ha in Baghmara	₹ 1,352.00
4	1st year creation & maintenance of 0.1 Ha Misc. Plantation	₹ 2,535.00
5	2nd Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,786.00
6	3rd Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,963.00
7	4th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 630.00
8	5th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 990.00
9	6th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,090.00
10	7th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,200.00
11	8th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,320.00
12	9th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,452.00
13	10th Year Maintenance of 0.1 Ha Misc. Plantation	₹ 1,598.00
14	Cost of Chain linked	₹ 1,91,052.00
15	Cost of ready made water storage Tank	₹ 15,000.00
16	Cost of 2Hp water Pump	₹ 15,000.00
17	Construction of Sign board & gate etc	₹ 60,000.00
	Total	₹ 3,22,288.00
18	Miscellaneous cost @ 10 % of the total cost	₹ 32,228.80
19	<b>Net Present Value (NPV)</b>	₹ 9,390.00
	<b>Grand Total</b>	<b>₹ 3,63,907.00</b>

Rupees three lakhs sixty three thousand nine hundred & seven only

  
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**Detailed Cost Norms for creation of 2 beds Poly pot Nursery**

Cost for 1 (one) bed Nursery

Rate of wages per manday =

₹ 338.00

**1st Year creation & maintenance of Poly pot Nursery**

Sl No	Particular of works	Man days	Amount per bed	Total
1	Preparation of standard size bed (13.0 M x 0.30 M x 0.30 M) for placement of polythine bags	1.575	₹ 532.35	
2	Cost of polythene bags (22.5 mm x 15 mm)	8	₹ 2,704.00	
3	Cost of manure mixed with top soil & filling in polythene bags and pounding	9	₹ 3,042.00	
4	Cost of cow dung manure including transportation	1	₹ 338.00	
5	Cost of seeds	2	₹ 676.00	
6	Cost of Goat proof fencing net, wooden fencing post & erecting, fixing fitting complete	1.65	₹ 557.70	
7	Cost of seed sowing including hoeing & mulching etc	1	₹ 338.00	
8	Cost of prickling & transportation of seedlings from germination bed to poly pot	2	₹ 676.00	
9	Cost of construction of sheds for protection of the seedlings from frost and direct heat of sunlight			
	a) cost of materials	1.5	₹ 507.00	
	b) Labour cost	2.5	₹ 845.00	
10	Cost of weeding 4 times	3	₹ 1,014.00	
11	Cost of watering during dry season	1.2	₹ 405.60	
12	Miscellaneous expenses	0.2	₹ 67.60	
	Total	34.625	₹ 11,703.25	
	Total amount for 2 bed (2 x 11,703.00)=			₹ 23,406.00

**2nd Year Mintenance**

Rate of wages per manday =

₹ 372.00

(Cost of Wages increases @ 10 %per year)

1	Cost of weeding 2 times	2	₹ 744.00	
2	Cost of watering during dry season	0.572	₹ 212.78	
	Total	2.572	₹ 957.00	
	Total amount for 2 beds (@957 X 2)			₹ 1,914.00

  
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**Detailed Cost Norms for creation of 0.1 Ha Misc plantation under Baghmara RF  
against diverted Forest Land for setting up of Hydrological Observation Station project  
by Water Resources Department, Baghmara.**

Cost for 1 (one)Ha area

Rate of wages per manday =

₹ 338.00

**Advance Work/Preliminary work**

Sl no	Particulars	Man days	Amt./Ha	Total
1	Survey & demarcation inc. fixing of boundary marks etc	2	₹ 676.00	
2	Jungle clearance, burning, land prep., collection of stacks, rope & lining etc	24	₹ 8,112.00	
3	(i) Construction of camp hut	8	₹ 2,704.00	
	(ii) Construction of inspection path	3	₹ 1,014.00	
	(iii) Procurement of tools & plants	3	₹ 1,014.00	
	<b>Total</b>	<b>40</b>	<b>₹ 13,520.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,352.00</b>

**CREATION - (FIRST YEAR OF PLANTATION)**

Sl no	Particulars	Man days	Amt./Ha	Total
1	Planting of nursery seedlings inc. carriage from nursery to plantation sites and proper ramming after planting, etc complete	16	₹ 5,408.00	
2	Weeding - 3 times weeding	45	₹ 15,210.00	
3	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 2,366.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 2,366.00	
	<b>Total</b>	<b>75</b>	<b>₹ 25,350.00</b>	
	<b>Total for 0.1 Ha</b>			<b>₹ 2,535.00</b>

  
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**MAINTENANCE - (Second YEAR OF PLANTATION)**

Rate of wages/Manday ₹ 372.00

(Cost of Wages increased @ 10%per year)

Sl no	Particulars	Man days	Amt./Ha	Total
1	Weeding - 2 times	30	₹ 11,160.00	
2	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 2,604.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 2,604.00	
3	Vacancy filing in mortality areas	4	₹ 1,488.00	
	<b>Total</b>	<b>48</b>	<b>₹ 17,856.00</b>	
	<b>Total for .1 ha</b>			<b>₹ 1,786.00</b>

**MAINTENANCE - (Third YEAR OF PLANTATION)**

Rate of wages/Manday ₹ 409.00

(Cost of Wages increased @ 10%per year)

Sl no	Particulars	Man days	Amt./Ha	Total
1	Weeding - 2 times	30	₹ 12,270.00	
2	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 2,863.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 2,863.00	
3	Vacancy filing in mortality areas	4	₹ 1,636.00	
	<b>Total</b>	<b>48</b>	<b>₹ 19,632.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,963.00</b>

**MAINTENANCE - (Fourth YEAR OF PLANTATION)**

Rate of wages/Manday ₹ 450.00

(Cost of Wages increased @ 10%per year)

Sl no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 3,150.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 3,150.00	
	<b>Total</b>	<b>14</b>	<b>₹ 6,300.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 630.00</b>

  
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**Maintenance - (Fifth YEAR OF PLANTATION)**Rate of wages/Manday **₹ 495.00**

(Cost of Wages increased @ 10 %per year)

Sl no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 3,465.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 3,465.00	
2	Singling out	6	₹ 2,970.00	
	<b>Total</b>	<b>20</b>	<b>₹ 9,900.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 990.00</b>

**Maintenance - (Sixth YEAR OF PLANTATION)**Rate of wages/Manday **₹ 545.00**

(Cost of Wages increased @ 10 %per year)

Sl no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 3,815.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 3,815.00	
2	Singling out	6	₹ 3,270.00	
	<b>Total</b>	<b>20</b>	<b>₹ 10,900.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,090.00</b>

**Maintenance - (Seventh YEAR OF PLANTATION)**Rate of wages/Manday **₹ 600.00**

(Cost of Wages increased @ 10 %per year)

Sl no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 4,200.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 4,200.00	
2	Singling out	6	₹ 3,600.00	
	<b>Total</b>	<b>20</b>	<b>₹ 12,000.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,200.00</b>

*M. Banerjee*  
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**Maintenance - (Eight YEAR OF PLANTATION)**Rate of wages/Manday **₹ 660.00**  
(Cost of Wages increased @ 10 %per year)

SI no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 4,620.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 4,620.00	
2	Singling out	6	₹ 3,960.00	
	<b>Total</b>	<b>20</b>	<b>₹ 13,200.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,320.00</b>

**Maintenance - (Ninth YEAR OF PLANTATION)**Rate of wages/Manday **₹ 726.00**  
(Cost of Wages increased @ 10 %per year)

SI no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 5,082.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 5,082.00	
2	Singling out	6	₹ 4,356.00	
	<b>Total</b>	<b>20</b>	<b>₹ 14,520.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,452.00</b>

**Maintenance - (Tenth YEAR OF PLANTATION)**Rate of wages/Manday **₹ 799.00**  
(Cost of Wages increased @ 10 %per year)

SI no	Particulars	Man days	Amt./Ha	Total
1	Fire protection works			
	(i) Wages of fire watcher from November to April of the following year	7	₹ 5,593.00	
	(ii) Fire line clearance inc. controlled burning	7	₹ 5,593.00	
2	Singling out	6	₹ 4,794.00	
	<b>Total</b>	<b>20</b>	<b>₹ 15,980.00</b>	
	<b>Total for 0.1 ha</b>			<b>₹ 1,598.00</b>

  
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**Detail Estimate**

**Name of work: Chain linked fencing for 0.1 Ha Compensatory plantation under Baghmara RF  
( Rates quoted as per SOR 2015-16)**

1/18.8 Supplying fixing & fitting chain linked fencing 10 S.W.G, G.I wire 50 x 50 mm mesh fitted to M.S angle iron post etc ....

122.00 x 1.80 = 219.60 m<sup>2</sup>  
@ ₹ 870.00 /m<sup>2</sup> ..... ₹ 1,91,052.00

**(Rupees one lakh ninty one thousand & fifty two only)**

  
Range Forest Officer  
Southern Range, Baghmara  
Southern Range Baghmara

  
Divisional Forest Officer  
SF & T Division, Baghmara  
Divisional Forest Officer  
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South Garo Hills,  
South Garo Hills.

Countersigned by  
  
6/10/20  
(F. C. Mohan)  
Assistant Executive Engineer, T/c  
Tura Building Division.

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**Scheme for infrastructure Purposes**

As per provision of Forest (Conservation) Act, 1980 and Forest Conservation Rules, 2003, Ch-2 of Compensatory Afforestation 2.8 (iii) (g), the Scheme for infrastructure requirement is being prepared as below:

**Justification:** As plantation shall be carried out in 0.1 ha area for 10 years period. The basic infrastructure shall be required like drawing of water to Nursery by using water pump, storing of water in storage tank for regular watering of the seedlings in Nursery, fencing around the Nursery and plantation area, Sign board, etc . This will ensure for the survival of the plants.

Sl.no.	Items of work	No./Unit	Rate (Rs.)	Amount (Rs.)
1	Cost of chain linked fencing (estimate enclosed)	219.60 m <sup>2</sup>	870.00/m <sup>2</sup>	1,91, 052.00
2	Cost of one Water storage Tank (LS)	1no.	15,000.00	15,000.00
3	Cost of one Water pump 2hp (LS)	1no.	15,000.00	15,000.00
4	Cost of signboard & gate etc. (LS)	-	60,000.00	60,000.00
5	Miscellaneous cost ( purchase of rubber pipe, tools & implements to be used in nursery & plantation areas, etc) (10% of total cost)	-	-	32,228.80

Total = 3, 13,280.80  
Say = 3, 13,281.00

Rupees (Three lakhs thirteen thousand two hundred eighty one) only

  
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**NET PRESENT VALUE (NPV)**

The area intended to use the Forest land for the purpose of setting up of Hydrological Observation Station near the Simsang Bridge by the Water Resources Department, Baghmara is under the Baghmara Reserve Forest. The proposed area falls under the Eco-Class I and it is a Dense Forest. The Net Present Value (NPV) is calculated as per Ch-3 (3.4) of the Forest (Conservation) Act, 1980 and Forest Conservation Rules, 2003 (Guidelines and Clarifications). The prevailing rates of NPV are calculated for the proposed area of 0.01 ha as below:

<u>Eco-Class</u>	<u>Forest Types</u>	<u>Rate/Ha</u>
I	Dense Forest	Rs.9,39,000/ha
Therefore for	1.0 ha=9, 39,000.00	
	0.01 ha=0.01 x 9,39,000	
	= 9,390.00	

Rupees (Nine thousand three hundred ninety) only.

  
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