

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

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Compensatory Afforestation Scheme

Abstract:

Sl.no.	Particulars	Amount (Rs.)	Annexure
1	Cost norms for Nursery and estimate for four beds	44,540.00	I
2	Cost norms for planation and estimate for 0.2 ha plantation including 10 years maintenance	1,75,848.00	II
3	Rcc post/pillar for project area site demarcation	90,000.00	III
4	Cost of sign board (L.S.)	20,000.00	IV
5	Estimate of tools & implements for Nursery & Plantation works.	35,000.00	VI
6	Net Present Value (NPV)	1,04,300.00	VII
	Total =	4,64,688.00	



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Annexure-I

Detailed estimate for 4 bed polypot Nursery and plantation of 0.2 ha at Gobraakura under Angratoli Reserve Forest:

Justification: As per compensatory afforestation 2.5; CA shall be raised and maintained at the cost of the User Agency on degraded forest land twice in extend of the forest area diverted in the cases of:

- d. Diversion of linear or 'strip' plantations declared as protected forest along road/rail/canal sides for widening or expansion of road/rail/canal,
- e. Extraction of minor minerals from the river beds.
- f. The projects implemented by the Central Government/PSUs, excluding Central Govt./Central PSUs Projects implemented by/through State Govt. and State Sector Projects implemented by the Central Govt/PSUs.

Hence based on above, the Nursery and plantation shall be raised at Gobraakura under Angratoli Beat within the Angratoli Reserve Forest. Since the proposed project area is for 0.1 ha, the plantation shall be raised double the area in degraded forest within Angratoli Reserve Forest at Gobraakura village, which falls under compartment no.1 as per the Working Plan Management. The Compartment No.1 falls under The plantation Working Circle, The JFMC Working Circle, The NTFP Working Circle, The Forest Protection Working Circle and The Wildlife Management Working Circle.



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Annexure-I

Approved Cost Norms for Nursery and Plantation

TEMPORARY NURSERY
(a) POLYPOT NURSERY
(i) NORMS IN THE FIRST YEAR

Wage rate=Rs.343

Sl. No.	Items of Work	Unified Norms	
		Mandays	Amount
1	2	3	4
1	Preparation of standard-size beds.	1.5	514.50
2	Cost of H.D polythene bags (22.5m x15mm). In 1 (one) bed 4 kg are required.	7.2	2469.60
3	Cost of up manure mixed earth in polythene bags including pounding after filling.	9	3087.00
4	Cost of cow dung including transportation.	0.6	205.80
5	Cost of seeds.	1.4	480.20
6	Cost of goat proof fencing net including cost of wooden fencing posts, erecting, fixing, fitting, etc complete and including cost of staples.	1	343.00
7	Cost of sowing including hoeing, mulching etc.	1	343.00
8	Cost of pricking and transplanting of seedlings from germination beds to poly bags	2	686.00
9	Cost of construction of shades for protection of seedlings from frost during winter and direct sunlight in warm areas.		
	(a) Cost of Materials.	1	343.00
	(b) Labour cost	2	686.00
10	Cost of weeding 4 weeding@ 338.00/pw.	2.6	891.80
11	Cost of watering	1	343.00
12	Miscellaneous cost e.g fungicides, tools and plants, making of inspection path, fertilizers, chemicals, lime pesticides/insecticides, growth hormones etc.	0.2	68.60
	TOTAL IN THE FIRST YEAR	30.5	10461.50


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(ii) Maintenance during the Second year

Sl. No.	Items of Work	Unified Norms	
		Mandays	Amount
1	2	3	4
1	Weeding (3 weeding only) @ 343.00/p.w.	1.3	570.70
2	Watering of Nursery beds.	0.3	102.90
	TOTAL IN THE SECOND YEAR	1.6	673.60

One bed for Temporary polypot nursery	10,461.50
Maintenance (2nd yr) for 1 bed polypot nursery	673.60
Total for one bed nursery	11,135.10

Therefore, cost for one bed nursery (Say)	11,135.00
Rupees (Eleven thousand one hundred thirty-five) only	

sl.no.	Particulars	Amount
1	Cost of one bed nursery	Rs. 11, 135.00
2	Cost of four bed nursery $11,135 \times 4 = 44,540.00$	Rs. 44,540.00
Rupees (Forty-four thousand five hundred forty) only		

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APPROVED PLANTATION NORMS FOR COMPENSATORY AFFORESTATION SCHEME
Wage Rate = Current Wage Rate (where "z" is notified wage rate by labour department
on the date of payment by user Agency)

PRELIMINARY WORKS

current wage rate=Rs.343

<u>Sl. No.</u>	<u>Items of works</u>	<u>Mandays</u>	<u>Rate (In terms of z)</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
1	Survey and demarcation including fixing of boundary marks at strategic points	2.00	2.00
2	Jungle clearance, burning, land preparation including staking, pit digging, hoeing, etc	24.00	24.00
3	Fencing With 3 strand barbed wire and wooden fencing posts including cost of staples, fixing, fitting, etc, complete	64.00	64.00
4	Cost of collection seeds	5.00	5.00
5	Construction of camp hut and inspection paths	4.00	4.00
6	Purchase of tools and plants	2.00	2.00
7	Supervisory staff to be engaged on casual basis from amongst the local people	12.00	12.00
8	Raising of Polypot nursery for 2 beds or hectare to cover for mortality rate of plants in the plantation site	61.00	61.00
9	Provision for signboards, documentation, upkeep of records and other miscellaneous works	30.00	30.00
	Sub Total in the Preliminary Year	204.00	204.00
10	Soil & Moisture Conservation measures in the plantation area @ 15%	30.60	30.60
11	Monitoring and evaluation @ 2%	4.08	4.08
12	Adding 15% contingency due to escalation cost and revision of wages rate etc.	35.80	35.80
	Total in the preliminary year	274.48	274.8



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CREATION AND 1ST YEAR MAINTENANCE OF PLANTATION


Wage Rate is 1.12z

Sl. No.	Item of Works	Mandays	Rate (In terms of z)
1	2	3	4
1	Planting of necessary seedling including carriage from nursery centers to plantation sites and proper ramming after planting etc.	20.00	22.40
2	Cost of manure and bio-fertilizer	40.00	44.80
3	Mulching and 3 times bio-fertilizer	50.00	56.00
4	Fire protection during dry and windy season (i) Wages if fire watchers from November of the creation year to April of the following year	10.00	11.20
	(ii) Fire line clearance including controlled burning from November in the creation year to April of the following Year.	10.00	11.20
5	2 nd year maintenance of poly pot nursery	3.20	3.58
6	Maintenance of cam hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30.00	33.60
7	Supervision cost	12.00	13.44
	Sub Total	175.20	196.22
8	Soil & Moisture conservation measures in the plantation area @ 15% of total Cost of 1st year creation	26.28	29.43
9	Monitoring & Evaluation @ 2 %	3.50	3.92
10	Adding 8.5% being contingency due to escalation cost of materials etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	17.42	19.51
	Total for 1st year creation and maintenance	222.41	249.10

SECOND YEAR MAINTENANCE OF PLANTATION

Wage Rate is 1.26z


Sl. No.	Items of Works	Mandays	Rate (in terms of z)
1	2	3	4
1	Vacancy filling by one-year old seedlings in mortality areas	5.00	6.30
2	Climber cutting and weddings 3 times	45.00	56.70
3	Fire protection 1. Wages of fire watchers	10.00	12.60
	(ii) Fire line clearance including controlled burning	10.00	12.60
4	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous	30.00	37.80


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5	Supervision cost	12.00	15.12
	Sub Total	112.00	141.12
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.80	21.17
7	Monitoring & Evaluation @2 %	2.24	2.82
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to deposited by User Agency	11.14	14.03
	Total in the 2nd Year	142.18	179.14

THIRD YEAR MAINTENANCE OF PLANTATION
Wage Rate is 1.41z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Vacancy filling wherever necessary	4.00	5.64
2	Climbing cutting and weeding 3 times	45.00	63.45
3	Fire protection (i) Wages of fire watchers	10.00	14.10
	(ii) Fire line clearance including controlled burning	10.00	14.10
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection, from grazing, documentation, upkeep of records and other miscellaneous works	30.00	42.30
5	Supervision Cost	12.00	16.92
	Sub total	111.00	156.51
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	23.48
7	Monitoring & Evaluation @2%	2.22	3.13
8	Adding 8.5% being contingency due to escalation cost etc, after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	11.04	15.56
	Total in the 3rd year	140.91	198.68


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FOURTH YEAR MAINTENANCE OF PLANTATION

Wage Rate is 1.58z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Vacancy filling wherever necessary	2.00	3.16
2	Climber cutting and three times weeding	45.00	71.10
3	(i) Wages of fire watchers	10.00	15.80
	(ii) Fireline clearance including controlled burning, etc.	30.00	15.80
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	47.40
5	Supervision cost	12.00	18.96
	Sub Total	109.00	172.22
6	Provision for soil & moisture conservation measures in the plantation area @15%	16.35	25.83
7	Monitoring & Evaluation @ 2%	2.18	3.44
8	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	10.84	17.13
Total in the 4th year		138.37	218.62

FIFTH YEAR MAINTENANCE OF PLANTATION

Wage rate is 1.77z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural works and two times weeding	30.00	53.10
2	(i) Wages of fire watchers	10.00	17.70
	(ii) Maintenance of fireline including controlled burning etc.	10.00	17.70
3	Maintenance of camp hut, signboard, fencing inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	53.10
4	Supervision cost	12.00	21.24
Sub Total		92.00	162.84
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.80	24.43
6	Monitoring & Evaluation @ 2%	1.84	3.26
	Adding 8.5% being contingency due to	9.15	16.19


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	escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to deposited by User Agency.		
	Total in the 5th Year	116.79	206.72

SIXTH YEAR MAINTENANCE OF PLANTATION

Wage Rate id 1.98z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural works	20.00	39.60
2	(i) Wages of fire watchers	10.00	19.80
	(ii) Maintenance of fireline including controlled burning etc.	10.00	19.80
3	Maintenance of camp hut, signboard, fencing, inspection paths protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	59.40
4	Supervision Cost	12.00	23.76
	Sub Total	82.00	162.36
	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.30	24.35
	Monitoring & Evaluation @ 2%	1.64	3.25
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	8.15	16.14
	Total in the 6th year	104.09	206.10

SEVENTH YEAR MAINTENANCE OF PLANTATION

Wage Rate 2.22z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural works	16.00	35.52
2	(i) Wages of fire watchers	10.00	22.20
	(ii) Maintenance of Fireline including controlled burning etc.	10.00	22.20
3	Maintenance of camp hut signboard, fencing, inspection paths, protection from grazing, miscellaneous, upkeep of records and other miscellaneous works	30.00	66.60
4	Supervision cost	12.00	26.64
	Sub Total	78.00	173.16
	Provision for soil & moisture conservation	11.70	25.97


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	measures in the plantation area @ 15%		
	Monitoring & Evaluation @2%	1.56	3.46
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining CA money to be deposited by User Agency	7.76	17.13
Total in the 7th year		99.02	219.82

EIGHT YEAR MAINTENANCE OF PLANTATION

Wage rate is 2.49z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural	14.00	34.86
2	(i) Wages of fire watchers	10.00	24.90
	(ii) Maintenance of fire line including controlled burning etc.	10.00	24.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	74.70
4	Supervision cost	12.00	29.88
Sub Total		76.00	189.24
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.40	28.39
6	Monitoring & Evaluation @ 2%	1.52	3.78
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be accrue from CA money to be deposited by User Agency	7.56	18.82
Total in the 8th Year		96.84	240.23

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NINTH YEAR MAINTENANCE OF PLANTATION: Wage rate= 2.79z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural	12.00	33.48
2	(i) Wages of fire watchers	10.00	27.90
	(ii) Maintenance of fire line including controlled burning etc.	10.00	27.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	83.70
4	Supervision cost	12.00	33.48
Sub Total			
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.10	30.97
6	Monitoring & Evaluation @ 2%	1.48	4.13
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be accrue from CA money to be deposited by User Agency	7.36	20.53
Total in the 9th year		93.94	262.09

TENTH YEAR MAINTENANCE OF PLANTATION: Wage rate= 2.79z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural	10.00	31.20
2	(ii) Wages of fire watchers	10.00	31.20
	(ii) Maintenance of fire line including controlled burning etc.	10.00	31.20
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	93.60
4	Supervision cost	12.00	37.44
5	Misc. Expenditure e.g. Salvaging of fencing materials from the plantation center wherever fencing is no longer necessary	6.00	18.72
Sub Total		78.00	243.36
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	36.50
6	Monitoring & Evaluation @ 2 %	1.56	4.87
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be accrue from CA money to be deposited by User Agency	7.76	24.21
Total in the 10th Year		99.02	308.94


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COST ABSTRACT FOR COMPENSATORY AFFORESTATION SCHEME

Sl.NO	YEAR	Mandays	Amount in terms of z (where "z" is notified wage rate on the date of payment by User Agency)	Amount year- wise/ha (wage rate= Rs.343/-)	Amount (Rs.) year-wise for 0.2 ha.
1	Preliminary Year	274.48	274.48	94,146.64	18,829
2	First Year creation & Maintenance	222.41	249.10	85,441.3	17,088
3	Second Year maintenance	142.18	179.14	61,445.02	12,289
4	Third Year Maintenance	140.91	198.68	68,147.24	13,629
5	Fourth Year Maintenance	138.37	218.62	74,986.66	14,997
6	Fifth Year Maintenance	116.79	206.72	70,904.96	14,180
7	Sixth Year maintenance	104.09	206.10	70,692.3	14,138
8	Seventh Year Maintenance	99.02	219.82	75,398.26	15,079
9	Eight Year maintenance	96.48	240.23	82,239.89	16,447
10	Ninth Year maintenance	93.94	262.09	89,896.87	17,979
11	Tenth Year maintenance	99.02	308.94	1,05,966.42	21,193
	Grand total	1527.69	2563.92	8,79,424.56	1,75,848

Calculation for 0.2 ha plantation with 10 years maintenance:

Sl.no.	Particulars	
1	Spacing	3 x 3
2	area	0.2 ha
3	mandays	2563.92/ha
4	Cost per ha	8,79,425.00
5	Cost for 0.2 ha	1,75,848.00
	Total for 0.2 ha	1,75,848.00

Rupees (One lakh seventy-five thousand eight hundred forty-eight) only.



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Detailed estimate for demarcation pillar/Rcc post

Justification: As per provision of Compensatory Afforestation Scheme given under 2.8. Elements of Schemes for Compensatory Afforestation; the project area proposed by Water Resources Department, South Garo Hills, Baghmara at Telekali where small irrigation dam is to be constructed shall be demarcated in all the sides by erecting RCC post so that no encroachment will be allowed other than what they asked for 0.1 ha.

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Detailed Estimate for Construction Of RCC Post/Pillar
(As per PWD SOR 2015-16)

Sl.No	Description of items of Work	Quantity	Unit	Rate	Amount
1/1.1	Earthwork in excavation in Foundation Trenches etc as directed. a) Hard/dense soil 1 x 0.75 x 0.30 x 1.00	0.23	m ³	✓ 231.00	51.98
2/4.1	Providing brick soiling in foundation & under floor etc. c)stone soiling 100 mm 1 x 0.75 x 0.30 x 0.10	0.02	m ³	✓ 391.00	8.80
3/2.5.1	Providing & laying CC in foundation & sub - structure. a) In proportion 1:2:4 1 x 0.75 x 0.30 x 1.00	0.225	m ³	✓ 7,795.00	1,753.88
4/2.5.3	Providing & laying CC in column,posts,etc. a)in proportion 1:2:4 1 x $\frac{(0.75)^2 + (0.45)^2}{2}$ x 0.75 1 x 0.45 x 0.45 x 1.50	0.29 0.30 0.59	m ³ m ³	✓ 7,977.00	4736.34
5/2.8(a)	Providing T/S reinforcement for RCC works,etc. 12 mm Column 1 x 4 x 3.05 x 0.89 Footing 2 x 8 x 0.9 x 0.89	10.86 12.82 23.67 0.23	kg kg kg Qtl	✓ 9,618.00	2212.14
6/2.8(c)	Providing MS reinforcement fo RCC works S/Tank, P beam,stirrups @ 6 mm dia. Column 1 x 20 x 2.8 x 0.28	15.68 0.15	kg Qtl	✓ 8,029.00	1,204.35
7/2.10(a)	Providing Shuttering inc.centering etc. 1 x 4 x 0.75 x 0.90	2.7	m ²	✓ 350.00	945.00
8/2.10(c)	Providing Shuttering inc.centering etc. 1 x 4 x 0.45 x 1.50 1 x 4 x 0.75 x 0.29	2.70 0.87 3.57	m ²	582.00 528.00	2089.00 1884.96
9/5.1	Providing 10 mm thick cement plaster. (a) In prop 1:3 1 x 4 x 0.45 x 1.50 4 x $\frac{(0.75)^2 + (0.45)^2}{2}$ x 0.75	2.7 1.14 3.84	m ²	207.00 270.00	795.00 1,036.80
C/O					13,834.24

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13,716.49

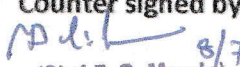
B/F						13,834.24
10/15.28	Applying one coat of cement primer of approved brand.	1 x 4 x 0.45 x 1.50	2.70	m ²	65.00	213.2
		4 x $\frac{(0.75)^2 + (0.45)^2}{2}$ 0.76	0.58			
			3.28			
11/15.16 15.46	Wall Painting(Two coat)with plastic paint emulsion paint on new surface.	1 x 4 x 0.45 x 1.50	2.70	m ²	236.00	906.24
		4 x $\frac{(0.75)^2 + (0.45)^2}{2}$ 0.75	1.14			
			3.84			
						14,953.68
				Say		15,000.00

14915.90

15,000.00

(Rupees Fifteen thousand)Only

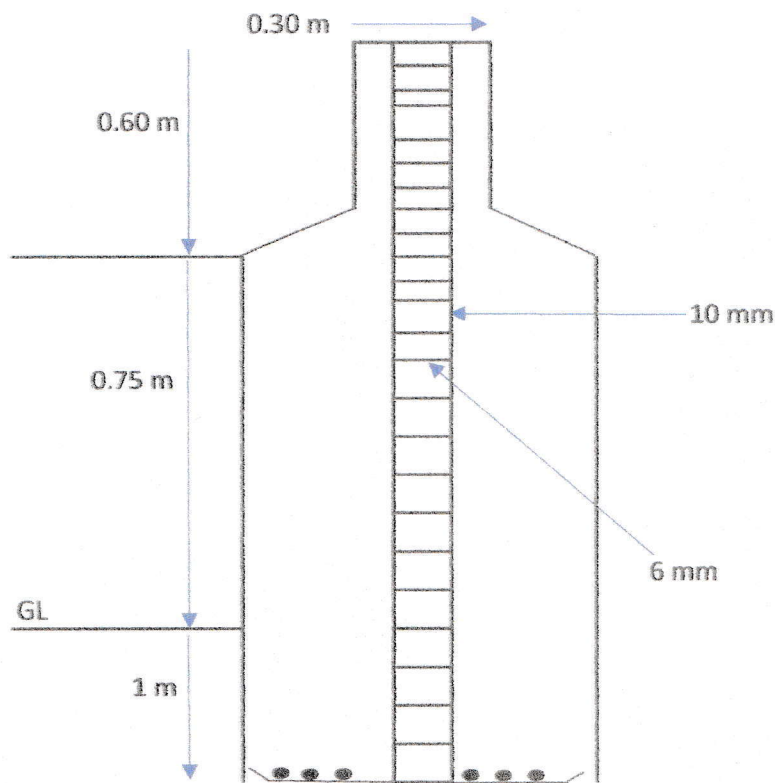
Prepared by,

Counter signed by,

 (Shri F. G. Memlin)
 Assistant Executive Engineer (T/C) P.W.D.
 Tura Building Division, Tura

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 SF & T Division
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Range Forest Officer,
 Southern Range, Baghmara



Countersigned

NS LL *SH/24*
(Shri F. G. Momin)

Assistant Executive Engineer (T/C) P.W.D.
Tura Building Division, Tura

Φ
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Abstract:

- 1) Total no. of Pillar Post required = 6 nos
- 2) Cost of each pillar Post (As per P.W.D SOR 2015-16) = Rs. 15000.00
- 3) Therefore Total no. for 6 pillar Post = 6 x 15000
= Rs.90000.00

(Rupees Ninety Thousand)Only

Prepared by,

for
Range Forest Officer,
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Counter signed by,

Shri F. G. Monin
(Shri F. G. Monin)
Assistant Executive Engineer (T/C) P.W.D.
Tura Building Division, Tura

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Net Present Value (NPV)

Eco-class	Description	Rate/ha (Rs.)	Area (ha)	Total (Rs.)
Eco-class-I	Consisting of : Tropical Wet Evergreen Forests. Tropical Semi Evergreen Forests Tropical Moist Deciduous Forests	10,43,000.00	0.1	1,04,300.00

Net Present Value is calculated for diversion of Forest Land under Angratoli Reserve Forest for an area of 0.1 ha.

As per the rate, the NPV comes to **Rs. 1,04,300/-**
(Rupees one lakh four thousand three hundred) only.

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Detailed estimate for signboard

Sl.no.	Particulars	Unit	Rate (Rs.)	Amount
1	Signboard for plantation area (L.S.)	1 no.	20,000.00 (L.S.)	20,000.00
	Total =			20,000.00

Rupees (Twenty thousand) only.



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Compensatory Afforestation Scheme

Abstract:

Sl.no.	Particulars	Amount (Rs.)	Annexure
1	Cost norms for Nursery and estimate for four beds	44,540.00	I
2	Cost norms for planation and estimate for 0.2 ha plantation including 10 years maintenance	1,75,848.00	II
3	Rcc post/pillar for project area site demarcation	90,000.00	III
4	Cost of sign board (L.S.)	20,000.00	IV
5	Estimate of tools & implements for Nursery & Plantation works.	35,000.00	VI
6	Net Present Value (NPV)	1,04,300.00	VII
	Total =	4,64,688.00	



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Annexure-I

Detailed estimate for 4 bed polypot Nursery and plantation of 0.2 ha at Gobraakura under Angratoli Reserve Forest:

Justification: As per compensatory afforestation 2.5; CA shall be raised and maintained at the cost of the User Agency on degraded forest land twice in extend of the forest area diverted in the cases of:

- d. Diversion of linear or 'strip' plantations declared as protected forest along road/rail/canal sides for widening or expansion of road/rail/canal,
- e. Extraction of minor minerals from the river beds.
- f. The projects implemented by the Central Government/PSUs, excluding Central Govt./Central PSUs Projects implemented by/through State Govt. and State Sector Projects implemented by the Central Govt/PSUs.

Hence based on above, the Nursery and plantation shall be raised at Gobraakura under Angratoli Beat within the Angratoli Reserve Forest. Since the proposed project area is for 0.1 ha, the plantation shall be raised double the area in degraded forest within Angratoli Reserve Forest at Gabrakura village, which falls under compartment no.1 as per the Working Plan Management. The Compartment No.1 falls under The plantation Working Circle, The JFMC Working Circle, The NTFP Working Circle, The Forest Protection Working Circle and The Wildlife Management Working Circle.



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Annexure-I

Approved Cost Norms for Nursery and Plantation

TEMPORARY NURSERY
(a) POLYPOT NURSERY
(i) NORMS IN THE FIRST YEAR

Wage rate=Rs.343

Sl. No.	Items of Work	Unified Norms	
		Mandays	Amount
1	2	3	4
1	Preparation of standard-size beds.	1.5	514.50
2	Cost of H.D polythene bags (22.5m x15mm). In 1 (one) bed 4 kg are required.	7.2	2469.60
3	Cost of up manure mixed earth in polythene bags including pounding after filling.	9	3087.00
4	Cost of cow dung including transportation.	0.6	205.80
5	Cost of seeds.	1.4	480.20
6	Cost of goat proof fencing net including cost of wooden fencing posts, erecting, fixing, fitting, etc complete and including cost of staples.	1	343.00
7	Cost of sowing including hoeing, mulching etc.	1	343.00
8	Cost of pricking and transplanting of seedlings from germination beds to poly bags	2	686.00
9	Cost of construction of shades for protection of seedlings from frost during winter and direct sunlight in warm areas.		
	(a) Cost of Materials.	1	343.00
	(b) Labour cost	2	686.00
10	Cost of weeding 4 weeding@ 338.00/pw.	2.6	891.80
11	Cost of watering	1	343.00
12	Miscellaneous cost e.g fungicides, tools and plants, making of inspection path, fertilizers, chemicals, lime pesticides/insecticides, growth hormones etc.	0.2	68.60
	TOTAL IN THE FIRST YEAR	30.5	10461.50


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(ii) Maintenance during the Second year

Sl. No.	Items of Work	Unified Norms	
		Mandays	Amount
1	2	3	4
1	Weeding (3 weeding only) @ 343.00/p.w.	1.3	570.70
2	Watering of Nursery beds.	0.3	102.90
TOTAL IN THE SECOND YEAR		1.6	673.60

One bed for Temporary polypot nursery	10,461.50
Maintenance (2nd yr) for 1 bed polypot nursery	673.60
Total for one bed nursery	11,135.10

Therefore, cost for one bed nursery (Say)	11,135.00
Rupees (Eleven thousand one hundred thirty-five) only	

sl.no.	Particulars	Amount
1	Cost of one bed nursery	Rs. 11, 135.00
2	Cost of four bed nursery $11,135 \times 4 = 44,540.00$	Rs. 44,540.00
Rupees (Forty-four thousand five hundred forty) only		

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APPROVED PLANTATION NORMS FOR COMPENSATORY AFFORESTATION SCHEME

Wage Rate = Current Wage Rate (where "z" is notified wage rate by labour department
on the date of payment by user Agency)

PRELIMINARY WORKS

current wage rate=Rs.343

<u>Sl. No.</u>	<u>Items of works</u>	<u>Mandays</u>	<u>Rate (In terms of z)</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
1	Survey and demarcation including fixing of boundary marks at strategic points	2.00	2.00
2	Jungle clearance, burning, land preparation including staking, pit digging, hoeing, etc	24.00	24.00
3	Fencing With 3 strand barbed wire and wooden fencing posts including cost of staples, fixing, fitting, etc, complete	64.00	64.00
4	Cost of collection seeds	5.00	5.00
5	Construction of camp hut and inspection paths	4.00	4.00
6	Purchase of tools and plants	2.00	2.00
7	Supervisory staff to be engaged on casual basis from amongst the local people	12.00	12.00
8	Raising of Polypot nursery for 2 beds or hectare to cover for mortality rate of plants in the plantation site	61.00	61.00
9	Provision for signboards, documentation, upkeep of records and other miscellaneous works	30.00	30.00
	Sub Total in the Preliminary Year	204.00	204.00
10	Soil & Moisture Conservation measures in the plantation area @ 15%	30.60	30.60
11	Monitoring and evaluation @ 2%	4.08	4.08
12	Adding 15% contingency due to escalation cost and revision of wages rate etc.	35.80	35.80
	Total in the preliminary year	274.48	274.8

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CREATION AND 1ST YEAR MAINTENANCE OF PLANTATION

Wage Rate is 1.12z

Sl. No.	Item of Works	Mandays	Rate (In terms of z)
1	2	3	4
1	Planting of necessary seedling including carriage from nursery centers to plantation sites and proper ramming after planting etc.	20.00	22.40
2	Cost of manure and bio-fertilizer	40.00	44.80
3	Mulching and 3 times bio-fertilizer	50.00	56.00
4	Fire protection during dry and windy season (i) Wages if fire watchers from November of the creation year to April of the following year	10.00	11.20
	(ii) Fire line clearance including controlled burning from November in the creation year to April of the following Year.	10.00	11.20
5	2 nd year maintenance of poly pot nursery	3.20	3.58
6	Maintenance of cam hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30.00	33.60
7	Supervision cost	12.00	13.44
	Sub Total	175.20	196.22
8	Soil & Moisture conservation measures in the plantation area @ 15% of total Cost of 1st year creation	26.28	29.43
9	Monitoring & Evaluation @ 2 %	3.50	3.92
10	Adding 8.5% being contingency due to escalation cost of materials etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	17.42	19.51
	Total for 1st year creation and maintenance	222.41	249.10

SECOND YEAR MAINTENANCE OF PLANTATION

Wage Rate is 1.26z

Sl. No.	Items of Works	Mandays	Rate (in terms of z)
1	2	3	4
1	Vacancy filling by one-year old seedlings in mortality areas	5.00	6.30
2	Climber cutting and weddings 3 times	45.00	56.70
3	Fire protection 1. Wages of fire watchers	10.00	12.60
	(ii) Fire line clearance including controlled burning	10.00	12.60
4	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous	30.00	37.80


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5	Supervision cost	12.00	15.12
	Sub Total	112.00	141.12
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.80	21.17
7	Monitoring & Evaluation @2 %	2.24	2.82
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to deposited by User Agency	11.14	14.03
	Total in the 2nd Year	142.18	179.14

THIRD YEAR MAINTENANCE OF PLANTATION

Wage Rate is 1.41z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Vacancy filling wherever necessary	4.00	5.64
2	Climbing cutting and weeding 3 times	45.00	63.45
3	Fire protection (i) Wages of fire watchers	10.00	14.10
	(ii) Fire line clearance including controlled burning	10.00	14.10
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection, from grazing, documentation, upkeep of records and other miscellaneous works	30.00	42.30
5	Supervision Cost	12.00	16.92
	Sub total	111.00	156.51
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	23.48
7	Monitoring & Evaluation @2%	2.22	3.13
8	Adding 8.5% being contingency due to escalation cost etc, after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	11.04	15.56
	Total in the 3rd year	140.91	198.68

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FOURTH YEAR MAINTENANCE OF PLANTATION

Wage Rate is 1.58z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Vacancy filling wherever necessary	2.00	3.16
2	Climber cutting and three times weeding	45.00	71.10
3	(i) Wages of fire watchers	10.00	15.80
	(ii) Fireline clearance including controlled burning, etc.	30.00	15.80
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	47.40
5	Supervision cost	12.00	18.96
	Sub Total	109.00	172.22
6	Provision for soil & moisture conservation measures in the plantation area @15%	16.35	25.83
7	Monitoring & Evaluation @ 2%	2.18	3.44
8	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	10.84	17.13
Total in the 4 th year		138.37	218.62

FIFTH YEAR MAINTENANCE OF PLANTATION

Wage rate is 1.77z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural works and two times weeding	30.00	53.10
2	(i) Wages of fire watchers	10.00	17.70
	(ii) Maintenance of fireline including controlled burning etc.	10.00	17.70
3	Maintenance of camp hut, signboard, fencing inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	53.10
4	Supervision cost	12.00	21.24
	Sub Total	92.00	162.84
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.80	24.43
6	Monitoring & Evaluation @ 2%	1.84	3.26
	Adding 8.5% being contingency due to	9.15	16.19


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	escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to deposited by User Agency.		
	Total in the 5th Year	116.79	206.72

SIXTH YEAR MAINTENANCE OF PLANTATION

Wage Rate id 1.98z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural works	20.00	39.60
2	(i) Wages of fire watchers	10.00	19.80
	(ii) Maintenance of fireline including controlled burning etc.	10.00	19.80
3	Maintenance of camp hut, signboard, fencing, inspection paths protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	59.40
4	Supervision Cost	12.00	23.76
	Sub Total	82.00	162.36
	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.30	24.35
	Monitoring & Evaluation @ 2%	1.64	3.25
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	8.15	16.14
	Total in the 6th year	104.09	206.10

SEVENTH YEAR MAINTENANCE OF PLANTATION

Wage Rate 2.22z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural works	16.00	35.52
2	(i) Wages of fire watchers	10.00	22.20
	(ii) Maintenance of Fireline including controlled burning etc.	10.00	22.20
3	Maintenance of camp hut signboard, fencing, inspection paths, protection from grazing, miscellaneous, upkeep of records and other miscellaneous works	30.00	66.60
4	Supervision cost	12.00	26.64
	Sub Total	78.00	173.16
	Provision for soil & moisture conservation	11.70	25.97


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	measures in the plantation area @ 15%		
	Monitoring & Evaluation @2%	1.56	3.46
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining CA money to be deposited by User Agency	7.76	17.13
Total in the 7th year		99.02	219.82

EIGHT YEAR MAINTENANCE OF PLANTATION

Wage rate is 2.49z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural	14.00	34.86
2	(i) Wages of fire watchers	10.00	24.90
	(ii) Maintenance of fire line including controlled burning etc.	10.00	24.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	74.70
4	Supervision cost	12.00	29.88
Sub Total		76.00	189.24
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.40	28.39
6	Monitoring & Evaluation @ 2%	1.52	3.78
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be accrue from CA money to be deposited by User Agency	7.56	18.82
Total in the 8th Year		96.84	240.23

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NINTH YEAR MAINTENANCE OF PLANTATION: Wage rate= 2.79z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural	12.00	33.48
2	(i) Wages of fire watchers	10.00	27.90
	(ii) Maintenance of fire line including controlled burning etc.	10.00	27.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	83.70
4	Supervision cost	12.00	33.48
Sub Total			
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.10	30.97
6	Monitoring & Evaluation @ 2%	1.48	4.13
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	7.36	20.53
Total in the 9th year		93.94	262.09

TENTH YEAR MAINTENANCE OF PLANTATION: Wage rate= 2.79z

Sl.No	Item of works	Mandays	Rate (In terms of z)
1	2	3	4
1	Climber cutting including silvicultural	10.00	31.20
2	(ii) Wages of fire watchers	10.00	31.20
	(ii) Maintenance of fire line including controlled burning etc.	10.00	31.20
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	93.60
4	Supervision cost	12.00	37.44
5	Misc. Expenditure e.g. Salvaging of fencing materials from the plantation center wherever fencing is no longer necessary	6.00	18.72
Sub Total		78.00	243.36
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	36.50
6	Monitoring & Evaluation @ 2 %	1.56	4.87
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency	7.76	24.21
Total in the 10th Year		99.02	308.94


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COST ABSTRACT FOR COMPENSATORY AFFORESTATION SCHEME

Sl.NO	YEAR	Mandays	Amount in terms of z (where "z" is notified wage rate on the date of payment by User Agency)	Amount year- wise/ha (wage rate= Rs.343/-)	Amount (Rs.) year-wise for 0.2 ha.
1	Preliminary Year	274.48	274.48	94,146.64	18,829
2	First Year creation & Maintenance	222.41	249.10	85,441.3	17,088
3	Second Year maintenance	142.18	179.14	61,445.02	12,289
4	Third Year Maintenance	140.91	198.68	68,147.24	13,629
5	Fourth Year Maintenance	138.37	218.62	74,986.66	14,997
6	Fifth Year Maintenance	116.79	206.72	70,904.96	14,180
7	Sixth Year maintenance	104.09	206.10	70,692.3	14,138
8	Seventh Year Maintenance	99.02	219.82	75,398.26	15,079
9	Eight Year maintenance	96.48	240.23	82,239.89	16,447
10	Ninth Year maintenance	93.94	262.09	89,896.87	17,979
11	Tenth Year maintenance	99.02	308.94	1,05,966.42	21,193
	Grand total	1527.69	2563.92	8,79,424.56	1,75,848

Calculation for 0.2 ha plantation with 10 years maintenance:

Sl.no.	Particulars	
1	Spacing	3 x 3
2	area	0.2 ha
3	mandays	2563.92/ha
4	Cost per ha	8,79,425.00
5	Cost for 0.2 ha	1,75,848.00
	Total for 0.2 ha	1,75,848.00

Rupees (One lakh seventy-five thousand eight hundred forty-eight) only.



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SOUTH GARO HILLS, BAGHMARA

Detailed estimate for demarcation pillar/Rcc post

Justification: As per provision of Compensatory Afforestation Scheme given under 2.8. Elements of Schemes for Compensatory Afforestation; the project area proposed by Water Resources Department, South Garo Hills, Baghmara at Telekali where small irrigation dam is to be constructed shall be demarcated in all the sides by erecting RCC post so that no encroachment will be allowed other than what they asked for 0.1 ha.

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Detailed Estimate for Construction Of RCC Post/Pillar
(As per PWD SOR 2015-16)

Sl.No	Description of items of Work	Quantity	Unit	Rate	Amount
1/1.1	Earthwork in excavation in Foundation Trenches etc as directed. a) Hard/dense soil 1 x 0.75 x 0.30 x 1.00	0.23	m ³	✓ 231.00	51.98
2/4.1	Providing brick soiling in foundation & under floor etc. c)stone soiling 100 mm 1 x 0.75 x 0.30 x 0.10	0.02	m ³	✓ 391.00	8.80
3/2.5.1	Providing & laying CC in foundation & sub - structure. a) In proportion 1:2:4 1 x 0.75 x 0.30 x 1.00	0.225	m ³	✓ 7,795.00	1,753.88
4/2.5.3	Providing & laying CC in column,posts,etc. a)in proportion 1:2:4 1 x $\frac{(0.75)^2 + (0.45)^2}{2}$ x 0.75 1 x 0.45 x 0.45 x 1.50	0.29 0.30 0.59	m ³ m ³	✓ 7,977.00	4736.34
5/2.8(a)	Providing T/S reinforcement for RCC works,etc. 12 mm Column 1 x 4 x 3.05 x 0.89 Footing 2 x 8 x 0.9 x 0.89	10.86 12.82 23.67 0.23	kg kg kg Qtl	✓ 9,618.00	2212.14
6/2.8(c)	Providing MS reinforcement fo RCC works S/Tank, P beam,stirrups @ 6 mm dia. Column 1 x 20 x 2.8 x 0.28	15.68 0.15	kg Qtl	✓ 8,029.00	1,204.35
7/2.10(a)	Providing Shuttering inc.centering etc. 1 x 4 x 0.75 x 0.90	2.7	m ²	✓ 350.00	945.00
8/2.10(c)	Providing Shuttering inc.centering etc. 1 x 4 x 0.45 x 1.50 1 x 4 x 0.75 x 0.29	2.70 0.87 3.57	m ²	582.00 528.00	2089.00 1884.96
9/5.1	Providing 10 mm thick cement plaster. (a) In prop 1:3 1 x 4 x 0.45 x 1.50 4 x $\frac{(0.75)^2 + (0.45)^2}{2}$ x 0.75	2.7 1.14 3.84	m ²	207.00 270.00	795.00 1,036.80
C/O					13,834.24

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13,796.49

B/F 13,834.24

10/15.28	Applying one coat of cement primer of approved brand.	1 x 4 x 0.45 x 1.50	2.70			
		4 x $\frac{(0.75)^2 + (0.45)^2}{2}$ 0.76	0.58			
			3.28	m ²	65.00	213.2
11/15.16 15.46	Wall Painting(Two coat)with plastic paint emulsion paint on new surface.	1 x 4 x 0.45 x 1.50	2.70			
		4 x $\frac{(0.75)^2 + (0.45)^2}{2}$ 0.75	1.14			
			3.84	m ²	236.00	906.24
						14,953.68
				Say	15,000.00	15,000.00

(Rupees Fifteen thousand)Only

Prepared by,

Counter signed by,


 (Shri F. G. Memlin) 8/7/2021

 Assistant Executive Engineer (T/C) P.W.D.
 Tura Building Division, Tura

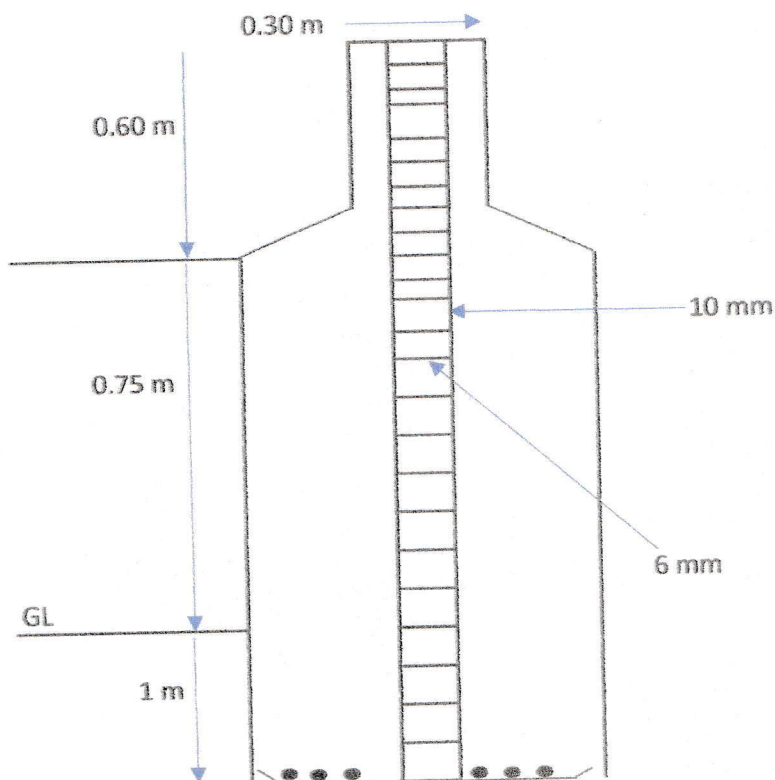
Divisional Forest Officer

SF & T Division

South Garo Hills, Baghmara

 Divisional Forest Officer,
 Social Forestry & Territorial Division
 South Garo Hills, Baghmara.


 Range Forest Officer,
 Southern Range, Baghmara



Countersigned
 N. L. S. S. S.
 (Shri F. G. Momin)
 Assistant Executive Engineer (T/C) P.W.D.
 Tura Building Division, Tura

M. S.
 Divisional Forest Officer,
 Social Forestry & Territorial Division
 South Garo Hills, Baghmara.

Range Forest Officer,
 Southern Range, Baghmara

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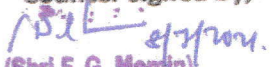
- 1) Total no. of Pillar Post required = 6 nos
- 2) Cost of each pillar Post (As per P.W.D SOR 2015-16) = Rs. 15000.00
- 3) Therefore Total no. for 6 pillar Post = 6 x 15000
= Rs.90000.00


(Rupees Ninety Thousand)Only

Prepared by,


Range Forest Officer,
Southern Range, Baghmara

Counter signed by,


(Shri F. G. Momin)
Assistant Executive Engineer (T/C) P.W.D.
Tura Building Division, Tura


Divisional Forest Officer
SF & T Division, Baghmara
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SOUTH GARO HILLS, BAGHMARA

Net Present Value (NPV)

Eco-class	Description	Rate/ha (Rs.)	Area (ha)	Total (Rs.)
Eco-class-I	Consisting of : Tropical Wet Evergreen Forests. Tropical Semi Evergreen Forests Tropical Moist Deciduous Forests	10,43,000.00	0.1	1,04,300.00

Net Present Value is calculated for diversion of Forest Land under Angratoli Reserve Forest for an area of 0.1 ha.

As per the rate, the NPV comes to **Rs. 1,04,300/-**
(Rupees one lakh four thousand three hundred) only.



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

Detailed estimate for signboard

Sl.no.	Particulars	Unit	Rate (Rs.)	Amount
1	Signboard for plantation area (L.S.)	1 no.	20,000.00 (L.S.)	20,000.00
			Total =	20,000.00

Rupees (Twenty thousand) only.



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Detailed estimate for Tools & implements for Nursery & Plantation

Sl.no.	Particulars	Unit/quantity	Rate (Rs.)	Amount
1	Syntax 500 ltr.	1 no.	@10/ltr	5,000.00
2	Rubber pipe	2 rolls	@1500/roll	3,000.00
3	watering can	2 nos.	@500/piece	1,000.00
4	Bush cutter	1 no.	@13,100/piece	13,100.00
5	Steel spade	4 nos.	@800/piece	3,200.00
6	Kraftseeds	4 nos.	@500/piece	2,000.00
7	Khurpi	5 nos.	@400/piece	2,000.00
8	Gardening scissors	2 nos.	@350/piece	700.00
	Total =			30,000.00

Rupees (Thirty thousand) only.



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