

**Detailed estimate for Compensatory Afforestation (as per the norms for undertaking compensatory Afforestation schemes) in lieu of "Diversion of 12 ha degraded Forest Land for Compensatory Afforestation of Indradhanush Gas Grid Ltd. for NEGG Pipe Line Route at Saipung Reserve Forests
Compartment No. 9**

Total area of plantation: 12ha

Location: Saipung Reserved Forest Compartment No. 9

Current Wage rate: Rs. 361.00 (Current Wage Rate as Notified by Labour Department)

Sl. No.	Item of works	Amount(Rs)	Remarks
1	Cost of expenditure for raising of Plantation and maintenance for 10 years	1,11,06,804.00	Detailed estimate enclosed as Annexure-A
2	Erecting a Watch Tower for monitoring of plantation	5,00,000.00	
3	Construction of Camp Hut cum store room for keeping tools, Equipments and other materials	3,00,000.00	
	Total	1,19,06,804/- .00	

(Rupees One Crore Nineteen Lakh Six Thousand Eight Hundred & Four) only


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

Detailed Estimate for Compensatory Afforestation**PRELIMINARY WORKS.**

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Survey and demarcation including fixing of boundary marks at strategic points	2.00	722/-
2	Jungle clearance, burning, land preparation including staking, pit digging, hoeing, etc	24.00	8,664/-
3	<u>Fencing</u> With 3 strand barbed wire and wooden fencing posts including cost of staples, fixing, fitting, etc, complete	64.00	23,104/-
4	Cost of collection of seeds	5.00	1,805/-
5	Construction of camp hut and inspection paths	4.00	1,444/-
6	Purchase of tools and plants	2.00	722/-
7	Supervisory staff to be engaged on casual basis from amongst the local people	12.00	4,332/-
8	Raising of polypot nursery for 2 beds per hectare to cover for mortality rate of plants in the plantation site	61.00	22,021/-
9	Provision for signboards, documentation, unkeep of records and other miscellaneous works	30.00	10,830/-
10	Sub Total in the Preliminary year	204.00	73,644/-
11	Soil & Moisture conservation measures in the plantation area @ 15%	30.60	11046.60
12	Monitoring & Evaluation @ 2%	4.08	1472.88
13	Adding 15% contingency due to escalation cost and revision of wages rate etc.	35.80	12923.8
	Total in the preliminary year	274.48	99087.28

(Rupees Ninety Nine Thousand Eighty Seven) only


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

Creation and Maintenance (1st year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Planting of nursery seedlings including carriage from nursery centres to plantation sites and proper ramming after planting etc.	20.00	8086.4
2	Cost of manure and bio- fertilizer	40.00	16172.8
3	Mulching and 3 times weeding	50.00	20216
4	<u>Fire protection during dry and windy season</u>		4043.2
	(i) Wages of fire watchers from November of the creation year to April of the following year	10.00	
	(ii) Fire line clearance including controlled burning from November in the creation year to April of the following year	10.00	4043.2
5	2 nd year maintenance of poly pot nursery	3.20	1292.38
6	Maintenance of camp hut, signboard, documentation, protection from grazing, unkeep of records and other miscellaneous works	30.00	12129.60
7	Supervision cost	12.00	4851.84
	Sub Total	175.20	70835.42
8	Soil & Moisture conservation measures in the plantation area @ 15% of total cost of 1 st year creation	26.28	10624.23
9	Monitoring & Evaluation @ 2%	3.50	1415.12
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	7043.11
	Total for 1st year creation and maintenance	222.41	89,917.80

(Rupees Eighty Nine Thousand Nine Hundred Seventeen) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai.

Maintenance of (2nd Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Vacancy filling by one year old seedlings in mortality areas	5.00	2274.3
2	Climber cutting and weedings 3 times	45.00	20468.7
3	<u>Fire Protection</u>		4548.6
	(i) Wages of fire watchers	10.00	
	(ii) Fire line clearance including controlled burning	10.00	4548.6
4	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	13645.8
5	Supervision cost	12.00	5458.32
	Sub Total	112.00	50944.32
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.80	7642.37
7	Monitoring & Evaluation @ 2%	2.24	1018.02
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	11.14	5064.83
	Total in the 2nd year	142.18	64669.54

(Rupees Sixty Four Thousand Six Hundred Sixty Nine) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai.

Maintenance (3rd Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Vacancy filling wherever necessary	4.00	2036.04
2	Climber cutting and weedings 3 times	45.00	22905.45
3	<u>Fire Protection</u>		
	(i) Wages of fire watchers	10.00	5090.1
	(ii) Fire line clearance including controlled burning	10.00	5090.1
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	15270.2
5	Supervision cost	12.00	6108.12
	Sub Total	111.00	56500.11
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	8476.28
7	Monitoring & Evaluation @ 2%	2.22	1129.93
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	5617.16
	Total in the 3rd year	140.91	71723.48

(Rupees Seventy One Thousand Seven Hundred Twenty Three) only


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai.

Maintenance (4th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Vacancy filling wherever necessary	2.00	1140.76
2	Climber cutting and 3 times weeding	45.00	25667.1
3	<u>Fire Protection</u>		5703.8
	(i) wages of fire watchers	10.00	5703.8
	(ii) Fireline clearance including controlled burning, etc.	10.00	
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	17111.4
5	Supervision cost	12.00	6844.56
	Sub Total	109.00	62171.42
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.35	9324.63
7	Monitoring & Evaluation @ 2%	2.18	1241.84
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	6183.93
	Total in the 4th year	138.37	78921.82

(Rupees Seventy Eight Thousand Nine Hundred Twenty One) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai.

Maintenance (5th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	5
1	Climber cutting including silvicultural works and two (2) times weedings	30.00	19169.1
2	Fire Protection		6389.7
	(i) Wages of fire watchers	10.00	
	(ii) Maintenance of fire line including controlled burning etc.	10.00	6389.7
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	19169.1
4	Supervision cost	12.00	7667.64
	Sub Total	92.00	58785.24
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.80	8819.23
6	Monitoring & Evaluation @ 2%	1.84	1176.86
7	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	9.15	5844.59
	Total in the 5th year	116.79	74625.92

(Rupees Seventy Four Thousand Six Hundred Twenty Five) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai.

Maintenance (6th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	5
1	Climber cutting including silvicultural works	20.00	14295.6
2	Fire Protection		
	(i) Wages of fire watchers	10.00	7147.8
	(ii) Maintenance of fire line including controlled burning etc.	10.00	7147.8
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	21443.4
4	Supervision cost	12.00	8577.36
	Sub Total	82.00	58611.96
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.30	8790.35
6	Monitoring & Evaluation @ 2%	1.64	1173.25
7	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	5830.15
	Total in the 6th year	104.09	74405.71

(Rupees Seventy Four Thousand Four Hundred Five) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai

Maintenance (7th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Climber cutting including silvicultural works	16.00	12822.72
2	<u>Fire Protection</u>		8014.2
	(i) Wages of fire watchers	10.00	8014.2
	(ii) Maintenance of fireline including controlled burning etc.	10.00	
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	24042.6
4	Supervision cost	12.00	9617.04
	Sub Total	78.00	62510.76
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	9375.17
6	Monitoring & Evaluation @ 2%	1.56	1249.06
7	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	6216.42
	Total in the 7th year	99.02	79355.02

(Rupees Seventy Nine Thousand Three Hundred Fifty Five) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai

Maintenance (8th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	5
1	Climber cutting including silvicultural works	14.00	12584.46
2	<u>Fire Protection</u>		8988.9
	(i) Wages of fire watchers	10.00	
	(ii) Maintenance of fireline including controlled burning etc.	10.00	8988.9
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	26966.7
4	Supervision cost	12.00	10786.68
	Sub Total	76.00	68304.81
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.40	10248.79
6	Monitoring & Evaluation @ 2%	1.52	1364.58
7	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	7.56	6794.02
	Total in the 8th year	96.48	86723.03

(Rupees Eighty Six Thousand Seven Hundred Twenty Three) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai

Maintenance (9th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Climber cutting including silvicultural works	12.00	12086.28
2	Fire Protection		10071.9
	(i) Wages of fire watchers	10.00	
	(ii) Maintenance of fireline including controlled burning etc.	10.00	10071.9
3	Maintenance of camp hut, signboard, fencing, inspection, paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	30215.7
4	Supervision cost	12.00	12086.28
	Sub Total	74.00	74532.06
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.10	11180.17
6	Monitoring & Evaluation @ 2%	1.48	1490.93
7	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	7411.33
	Total in the 9th year	93.94	94614.49

(Rupees Ninety Four Thousand Six Hundred Fourteen) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai

Maintenance (10th Year)

Sl. No.	Item of works	Mandays/ Per Ha	Amount
1	2	3	4
1	Climber cutting including silvicultural works	10.00	11263.2
2	Fire Protection		11263.2
	(i) Wages of fire watchers	10.00	
	(ii) Maintenance of fireline including controlled burning etc.	10.00	11263.2
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, unkeep of records and other miscellaneous works	30.00	33789.6
4	Supervision cost	12.00	13515.84
5	Misc. expenditure e.g salvaging of fencing materials from the plantation center wherever fencing is no longer necessary	6.00	6757.92
	Sub Total	78.00	87852.96
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	13176.5
7	Monitoring & Evaluation @ 2%	1.56	1758.07
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	7.76	8736.2
	Total in the 10th year	99.02	1,11,523.73

(Rupees One Lakh Eleven Thousand Five Hundred Twenty Three) only


 Divisional Forest Officer,
 Jaintia Hills Territorial Division, Jowai

COST ABSTRACT FOR COMPENSATORY AFFORESTATION SCHEMES

Sl. No.	Year	Man days	Amount
1	Preliminary year	274.48	99087.28
2	First year creation & maintenance	222.41	89917.80
3	Second year maintenance	142.18	64669.54
4	Third year maintenance	140.91	71723.48
5	Fourth year maintenance	138.37	78921.82
6	Fifth year maintenance	116.79	74625.92
7	Sixth year maintenance	104.09	74405.71
8	Seventh year maintenance	99.02	79355.02
9	Eight year maintenance	96.48	86723.03
10	Ninth year maintenance	93.94	94614.49
11	Tenth year maintenance	99.02	111523.73
	Grand Total per hectare	1527.68	925567.82

(Rupees Nine Lakh Twenty Five Thousand Five Hundred Sixty Seven) only

The Cost of creation of plantation per Ha including maintenance works upto 10th years=

Rs. 9,25,567/-

Total area of Plantation: 12ha

Total cost for creation of Plantation 12ha : **9,25,567/- x 12Ha = Rs. 1,11,06,804/-**

Erecting of watch Tower for monitoring of plantation: 5,00,000.00

Construction of Camp Hut cum store room for keeping tools, equipments and other materials:
3,00,000.00

Total Cost: 1,11,06,804/- +5,00,000/- + 3,00,000/- = 1,19,06,804/-

(i.e. One Crore Nineteen Lakh Six Thousand Eight Hundred & Four) only


Divisional Forest Officer,
Jaintia Hills Territorial Division, Jowai