

Norms for undertaking compensatory Afforestation scheme for Diversion of 5.156 ha of Forest land for shale-siltstone mining project located at Shella Village in East Khasi Hills District of Meghalaya in favour of M/S Lafarge Umiam Mining, Private limited (LUMPL)

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

Rate of wages fixed by labour Department = Rs. 343/-

Sl.no	Item of Work	Mandays	Wages Rate	Rate (in terms of z)
1	Survey and demarcation including fixing of boundary marks at strategic points	2.00	343	686.00
2	Jungle clearance , burning land preparation including staking, pit digging, hoeing,tc.	24.00	343	8232.00
3	Fencing with 3 strand barded wire and wooden fencing posts including cost of staples, fixing, fitting, etc complete.	64.00	343	21952.00
4	Cost of collection of Seeds	5.00	343	1715.00
5	Construction of camp hut and inspection paths	4.00	343	1372.00
6	Purchase of tools and plants	2.00	343	686.00
7	Supervisory staff to be engaged on casual basis from amongst the local people	12.00	343	4116.00
8	Raising of polypot nursery for 2 beds per hectare to cover for mortality rate of plants in the plantation site	61.00	343	20923.00
9	Provision for signboards, documentaion, up keep of records and other miscelloaneous woks	30.00	343	10290.00
	Sub Total in the Preliminary year	204.00		69972.00
10	Soil & Moisture conservation measures in the plantation area @ 15%	30.60	343	10495.80
11	Monitoring & Evaluatio @ 2%	4.08	343	1399.44
12	Adding 15% contingency due to escalation cost and revised of wages rate etc	35.80	343	12279.40
	Total in the preliminary year	274.48		94146.64

Creation and 1st Year Maintenance of Plantation					
Wage rate is Rs		1.12	343	384.16	
Sl.no	Item of Work	Mandays	Wages Rate	rate (in terms of z)	
1	Plantation of nursery seedling including carriage from nursery centres to plantation sites and proper ramming after planting etc.	20	384.16	7683.20	
2	Cost of manure and bio-fertilizer	40	384.16	15366.40	
3	Mulching and 3 times weeding Fire protection during dry and windy season	50	384.16	19208.00	
4	i) wages of fire watchers from November of the creation year to April of the following year.	10	384.16	3841.60	
	ii) Fireline clearance including controlled burning from November in the creation year to April of the following year	10	384.16	3841.60	
5	2nd year maintenance of poly pot nursery	3.2	384.16	1229.31	
6	Maintenance of camp hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30	384.16	11524.80	
7	Supervision cost	12	384.16	4609.92	
	Sub Total	175.2		67304.83	
8	Soil & Moisture conservation measures in the plantation area @15% of the total cost of 1st year creation.	26.28	384.16	10095.72	
9	Monitoring & Evaluation @2%	3.5	384.16	1344.56	
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	384.16	6692.07	
	Total for 1st Year creation and maintenance	222.40		85437.18	

Second Year Maintenance of Plantation					
Wage rate is Rs.		1.26	343	432.18	
Sl.no	Item of Work	Mandays	Wages Rate	Rate (in terms of z)	
1	Vacancy filling by one year old seedlings in mortality areas	5	432.18	2160.90	
2	Climber cutting and weedings 3 times	45	432.18	19448.10	
Fire Protection					
3	i) Wages of fire watchers	10	432.18	4321.80	
	ii) Fire line clearance including controled	10	432.18	4321.80	
4	Maintenance of cramp hut, signboard, inspection paths fencing protection from grazing documentation upkeep of records and other miscellaneous works.	30	432.18	12965.40	
5	Supervision cost	12	432.18	5186.16	
	Sub total	112		48404.16	
6	Provision for soil & moisture conservation measures in the plantation area @15%	16.8	432.18	7260.62	
7	Monitoring & Evaluation @2 %	2.24	432.18	968.08	
	Adding 8.5% being contingency due to escalation cost-ets.after ascertaining the rate of interest due to accrue from CA money to be deposit by user agency	11.14	432.18	4814.49	
	Total in the 2nd year	142.18		61447.35	

Third Year Maintenance of Plantation					
Wage rate is Rs.		1.41	343	483.63	
Sl.no	Item of Work	Mandays	Wages Rate	Rate (in terms of z)	
1	Vacancy filling wherever necessary	4	483.63	1934.52	
2	Climber cutting and weedings 3 times	45	483.63	21763.35	
3	Fire protection	10	483.63	4836.30	
	i) Wages of Fire watchers				
4	ii) Fire line clearance including controlled	10	483.63	4836.30	
	Maintenance of cramp hut, signborad, fencing inspection paths, protection from grazing, documents upkeep of records and other miscellaneous works	30	483.63	14508.90	
5	Supervision cost	12	483.63	5803.56	
	Sub Total	111		53682.93	
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	483.63	8052.44	
7	Monitoring & evaluation @2%	2.22	483.63	1073.66	
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	483.63	5339.28	
	Total in the 3rd year	140.91		68148.30	

Fourth Year Maintenance of Plantation				
Wage rate is Rs.		1.58	343	541.94
Sl.no	Item of Work	Mandays	Wage rate	Rate (in terms of z)
1	Vacancy filling wherever necessary	2	541.94	1083.88
2	Climber cutting and three times weeding	45	541.94	24387.30
3	i) Wages of Fire watchers	10	541.94	5419.40
	ii) Fireline clearance including controlled burning, etc	10	541.94	5419.40
4	Maintenance of cramp hut, signboard, fencing, inspection paths protection from grazing, documentation, upkeep of records and other miscellaneous works.	30	541.94	16258.20
5	Supervision cost	12	541.94	6503.28
	Sub total	109		59071.46
6	Provision for soil & moisture conservation measures measures in the plantation area @ 15%	16.35	541.94	8860.72
7	Monitoring & evaluation @2%	2.18	541.94	1181.43
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money	10.84	541.94	5874.63
8	to be deposited by user agency			
	Total in the 4th year	138.37		74988.24

Fifth Year Maintenance of Plantation					
Wage rate is Rs.		1.77	343	607.11	
Sl.no	Item of Work	Mandays	wage rate	Rate (in terms of z)	
1	Climber cutting including silvicultural works and two times weeding	30	607.11	18213.30	
	i) Wages of fire watchers	10	607.11	6071.10	
2	ii) Maintenance of Fireline including controlled burning etc	10	607.11	6071.10	
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works.	30	607.11	18213.30	
4	Supervision cost	12	607.11	7285.32	
	sub total	92		55854.12	
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.8	607.11	8378.12	
6	Monitoring & Evaluation @ 2%	1.84	607.11	1117.08	
	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	607.11	5555.06	
	Total in the 5th year	116.79		70904.38	

Sixth Year Maintenance of Plantation					
Wage rate is Rs		1.98	343	679.14	
Sl.no	Item of Work	Mandays	Wage rate	Rate (in terms of z)	
1	Climber cutting including silvicultural works	20	679.14	13582.80	
2	i) wages of faire watcher	10	679.14	6791.40	
	ii) maintenace of fireline including controlled burning etc.	10	679.14	6791.40	
	Maintenace of cramp hut, signborad, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneuous works.	30	679.14	20374.20	
3					
4	Supervision Cost	12	679.14	8149.68	
	Sub Total	82		55689.48	
	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.3	679.14	8353.42	
	Monitoring & evaluation @ 2%	1.64	679.14	1113.79	
	escalation cost etc.after ascertaining the rate of interest due to accrue from CA money to be deposited by the user agency.	8.15	679.14	5534.99	
	Total in the 6th Year	104.09		70691.68	

Seventh Year Maintenance of Plantation					
Wage rate is Rs		2.22	343	761.46	
Sl.no	Item of Work	Mandays	Wage rate	Rate (in terms of z)	
1	Climber cutting including silviculture works	16	761.46	12183.36	
	i) Wages of fire watcher	10	761.46	7614.60	
2	ii) Maintenance of fireline including controlled burning etc.	10	761.46	7614.60	
	Maintenace of cramp hut, singborad, fencing, inspection paths, protection from grazing, documentation, upkeep of records and othe miscellanous works.	30	761.46	22843.80	
3					
4	supervision Cost	12	761.46	9137.52	
	Sub total	78		59393.88	
	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.7	761.46	8909.08	
	Monitoring & Evaluation @ 2%	1.56	761.46	1187.88	
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accre from CA money to be deposited by user agency.	7.76	761.46	5908.93	
	Total in the 7th year	99.02		75399.77	

Eight year maintenace of Plantation				
	wage rate is Rs.	2.49	343	854.07
Sl.no	Item of Work	Mandays	Wage Rate	Rate (in terms of z)
1	climber cutting including silivicultural works	14	841.62	11782.68
	i) wage of fire watchers	10	841.62	8416.20
2	ii) maintenace of Fireline including controlled burning etc	10	841.62	8416.20
	Maintenace of cramp hut, signboard, fencing, inspection paths, protetion from grazing, documentation, upkeep of records and other miscellaneous	30	841.62	25248.60
3	Supervision cost	12	841.62	10099.44
4	Sub atotal	76		63963.12
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.4	841.62	9594.47
6	Monitoring & Evaluation area @ 15%	1.52	841.62	1279.26
	Adding 8.5% being contingel due to escalation cost after ascertaining the rate of interest due to accrue from CA money to be deposited by the user agency	7.56	841.62	6362.65
	Total in he 8th year	96.48		81199.50

Ninth year maintenace of Plantation				
wage rate is Rs.		2.79	343	956.97
Sl.no	Item of Work	Mandays	Wage rate	Rate (in terms of z)
1	Climber cutting including siliviculture works	12	943.02	11316.24
2	i) Wages of fire watchers	10	943.02	9430.20
	ii) Maintenace of fireline including controlled burning etc	10	943.02	9430.20
3	Maintenace of cramp hut, signboard, fencing, inspection paths, protection fromgrazing, documentation, upkeep of	30	943.02	28290.60
4	Supervision cost	12	943.02	11316.24
	Sub Total	74		69783.48
5	Provision for soil & Moisture conservation measures in the plantation area @15%	11.1	943.02	10467.52
6	Monitoing & evaluation @ 2%	1.48	943.02	1395.67
7	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accure from CA money	7.36	943.02	6940.63
	to be deposited by the User agency			
	Total in the 9th year	93.94		88587.30

Tenth year maintenace of Plantation				
Wage Rate is Rs		3.12	343	1070.16
Sl.no	Item of Work	Mandays	wage rate	Rate (in terms of z)
1	climber cuting siliviculture works	10	1054.56	10545.60
2	i) wages of fire watchers	10	1054.56	10545.60
	ii) maintenace of fireline including controlled burning etc.	10	1054.56	10545.60
3	Maintenace of cramp hut, signboard, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30	1054.56	31636.80
4	Supervision cost	12	1054.56	12654.72
5	Misc.expenditure e.g salvaging of fencing materials from the plantation centre wherever fencing is no longer necessary	6	1054.56	6327.36
	Sub Total	78		82255.68
6	Provision for soil & moisture conservation measures in the plantation area @15%	11.7	1054.56	12338.35
7	Monitoring & evaluation @ 2%	1.56	1054.56	1645.11
	Adding 8.5% being contingency due to escalation cost etc. after ascertaiing the rate of interest due to accure from cA money to be deposited by the user Agency	7.76	1054.56	8183.39
	Total in the year 10th Year	99.02		104422.53

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 the User agency)
1	Preliminary Works	274.48	94146.64
2	First year creation and maintenace	222.40	85437.18
3	Second year maintenace	142.18	61447.35
4	Third Year maintenace	140.91	68148.30
5	Fourth year maintenace	138.37	74988.24
6	Fifth Year Maintenace	116.79	70904.38
7	Sixth Year maintenace	104.09	70691.68
8	Seventh Year maintenace	99.02	75399.77
9	Eight year maintenace	96.48	81199.50
10	Ninth Year maintenace	93.94	88587.30
11	Tenth year maintenace	99.02	104422.53
	Grand total per hectare	1527.68	875372.87

Therefore, Cost for raising Compensatory afforestation = Rs 875373 x 5.156 ha
 Total= Rs 4513423.188/-
 Say= Rs 45,13,423.00/-

Rupees (Forty Five Lakhs thirteen thousand four hundred and twenty three) only


 Divisional Forest Officer
 East Khasi Hills & Ri-Bhoi District
 Shillong.