

SCHEDULE OF ADV. WORKS OF PLTN: Detailed Estimate of Production of Quality Planting Material/Seedlings in Modern Nurseries

FY 2018-19

Sl.	Particular of Work	Unit	Type	Rate (In Rs.)
Advance Component				
1	Cost of making dry and seived leaf Compost inclusive of all costs	m3	Material	3000.00
2	Cost of coarse Sand (Purchase/Collection, Carriage, Loading, Unloading,drying & seiving all inclusive)	m3	Material	900.00
3	Cost of Burnt Rice Husk/CDM/Vernnicompost etc. (Purchase/Collection, Carrsige, Loading, Unloading,drying & seiving all inclusive)	m3	Material	1200.00
4	Preparation of potting mixture (Mixing through hand driven Mixture Machine)	m3	Labour	260.00
5	Disinfection of Root Trainer, Filling and keeping filled Root Trainers on stands	for 2000 Seedlings	Labour	520.00
6	Collection of quality Seeds including collection and carriage	for 2000 Seedlings	Material	380.00
7	Drying, Sorting and Pretreatment of Seeds and sowing in Hygropits	for 2000 Seedlings	Labour	260.00
8	Pricking out and transplanting of seedlings in Root Trainers	for 2000 Seedlings	Labour	520.00
9	Supply of insecticides, fungicides, micronutrients, disinfectants, etc.	for 2000 Seedlings	Material	120.00
10	Supply of Seiving nets, water pipes/Can etc.	for 2000 Seedlings	Material	80.00
11	Watering for 90 days(January to March) including watering in Hygropits and Spraying of Insecticides.	for 2000 Seedlings	Labour	988.00
12	Sorting-shifting, weeding-cleaning as and when required	for 2000 Seedlings	Labour	520.00
13	Contingency	for 2000 Seedlings	Material	249.00
Cost of 2000 seedlings /QPM(Department Rate in Rs				8997.00
A. Cost of 2000 seedlings/QPM(Tender Rate with 10% Contractor's profit)				9896.70
B. GST (12% of A;				1187.60
C.Total Cost of Work(A+B)				11084.30
D.Labour Cess (1% of C)				110.84
Grand Total (C+D) per 2000 QPM/Seedling (Tender Rate in Rs.) per Ha				11195.15
Grand Total for 0.99 Ha				11083.00

Approved

Chif Conservator of Forests
South West Circle, W.B.

Divisional Forest Officer,
Purulia Division.

SCHEDULE OF QGS CREATION OF PLANTATIONS (COMPENSATORY AFFORESTATION)

	Type of Plantation	OGS SB
	No of seedlings per ha	1600
	No of Seedlings per km for single row for Strip Plantation	
	Spacing per ha	2.5m x 2.5m
	Spacing per km for single row for Strip Plantation	
	Pit Size	60cm. x 45cm. x 45cm
Sl.	Particulars of Work	
A.	Labour Component	
1	Survey and demarcation of the plantation area including GPS Survey by technical Person.	1
2	Burning, removing debris & cleaning of the Pitn site and making inspection path and Alignment of planting lines and staking the pit positions.	10
3	Digging pits (Pit Size = .060 m x .45 m x .45 m)	26
4	Alignment and cutting of contour trench of size 0.45in x 0.45m x 5 mt. total 500 m long per ha= 101. 25 in3 in staggered nnumcr.0.5 mt away from another line for easy movement, Trench kiln: to next trench line distance 10 mt.	16
5	Cutting of Box trench of size 0.60m x 0.60m x 0.45 mt, total 1200 nos per ha	26
6	Digging Cattle proof trench (50 rmt x 1.35 mt x 1.20 mt)	20
7	Filling up of planting pits with dug up pulverized soil, Organic manure, Fungicides, Micro-Nutrients etc and planting	18
8	Carriage of seedlings from nursery to planting site	14
9	Transplanting of potted seedings including carriage from field nursery to planting site and staking	14
10	1st time weeding cleaning & mulching with application of fertilizer & vacancy filling	16
11	2nd time weeding cleaning & mulching with application of fertilizer & vacancy filing	12
12	3rd time weeding cleaning & mulching without application of fertilizer & vacancy filling	2
13	Making- fire lines 1.501 . wide all ong the periphery and 1.20 mt. with inside pltn.	6
14	Watch Ward from Sep to March	60
15	Sorting, Shifting , Weeding, cleaning and watering of seedlings in nursery (April-June)	17
17	Application of insecticide / Organic manure to the planted seedings	2
18	Vacancy filling with potted seedlings	2
19	Application organic manure as per doses prescriber per pit	4
20	Watering to seedlings during dry spell	4

SCHEDULE OF QGS CREATION OF PLANTATIONS (COMPENSATORY AFFORESTATION)		
Total Mandays (Nos.)=		270
X.	Cost of Labour Component @ Rs.260/MD for Departmental Work Rs.) =	70200
Add GST.18% (SAC Code: 998519) for Tender Work (Rs.) =		12636
Cost of Labour Component for tender work with GST (Rs.) =		82836
B.	Material Cost (Rs.)	
1	Signages (GST :18%)	500
2	Chemical Fertilizer @ 50 gm DAP/Plant (GST : 5%)	2500
3	Insecticides / Hormones (GST : 18%)	1000
4	Organic manure(GST : NA)	500
5	Barbed wire fencing along boundary trenches (18% GST)	1500
6	Carriage of Seedlings and fertilizer by Truck / vehicle etc.(GST : 18%)	2000
Y.	Total Material Cost without Labour Cess (Rs.) =	8000
X.	Cost of Labour Component for tender work with GST (Rs.) =	82836
Z.	Total Cost (X + Y) =	90836
Contingencies 3 %		2485
Labour Cess 1%		828
Total =		94149
Add 10% Contactors profit for tender work (Rs.) =		9415
GRAND TOTAL for TENDER WORK with GST (Rs.).		103564
Total for 0.99 Ha. Plantation		102528


 Divisional Forest Officer,
 Purulia Division.

Approved


 Chief Conservator of Forests
 South West Circle, W.B.

SCHEDULE FOR 1ST YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
Sl. No.	Particulars of Work	
A.	Labour Component	
1	Vacancy infilling and transport of seedlings	3
2	1st weeding, cleaning, mulching, with application of fertilizer	8
3	2nd weeding, cleaning, mulching	6
4	3rd weeding, cleaning, mulching	6
5	Cutting of Firelines (3m wide)	5
6	Watch & Ward	60
7	Application of insecticide and Organic Manure	7
8	Repairing of CPT, Contour Trench and Box Trench	15
9	Raising of seedlings for infilling	12.00
Total Mandays (Nos.).		122
X.	Cost of Labour Component @ Rs.276/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	33672.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).		6060.96
Cost of labour Component for tender work with GST Ms.).		39732.96
B. Material Cost (Rs.)		
1	Transport of seedling/fertilizer/water tanker (GST: 18%)	5000.00
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	1500.00
3	Cost of Insecticide (GST: 18%)	750.00
Y.	Total Material Cost without Labour Cess (Rs.) =	7250.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	39732.96
Z.	Total Cost (X + Y) =	46982.96
4	Contingency 3%	1409.49
5	Labour Cess 1%	469.83
Total =		48862
Add 10% Contactors profit for tender work (Rs.) =		4886
GRAND TOTAL for TENDER WORK with GST (Rs.) =		53749
Total for 0.99 Ha. Plantation		53211

Approved



Chief Conservator of Forests
South West Circle, W.B.



Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 2ND YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
Sl. No.	Particulars of Work	
A. Labour Component		
1	Vacancy infilling and transport of seedlings	3
2	1st weeding, cleaning, mulching, with application of fertilizer	8
3	2nd weeding, cleaning, mulching	6
4	Repairing of CPT, Contour Trench and Box Trench	15
5	Maintenance of Fire line	5
6	Watch & Ward	60
7	Raising of seedlings for infilling	10
Total Mandays (Nos.).		107
X.	Cost of Labour Component @ Rs.293/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	31351.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs.).		5643.18
Cost of labour Component for tender work with GST Ms.).		36994.18
B. Material Cost (Rs.)		
2	Cost of fertilizer, cowdung manure etc (GST: 5%)	3500.00
Y.	Total Material Cost without Labour Cess (Rs.) =	3500.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	36994.18
Z.	Total Cost (X + Y) =	40494.18
4	Contingency 3%	1214.83
5	Labour Cess 1%	404.94
Total =		42114
Add 10% Contactors profit for tender work (Rs.) =		4211
GRAND TOTAL for TENDER WORK with GST (Rs.) =		46325
Total for 0.99 Ha. Plantation		45862

Approved



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Divisional Forest Officer,
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SCHEDULE FOR 3RD YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation

		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
Sl. No.	Particulars of Work	
A.	Labour Component	
1	Vacancy infilling and transport of seedlings	2
2	1st weeding, cleaning, mulching, with application of fertilizer	8
3	2nd weeding, cleaning, mulching	6
4	Watch & Ward	60
5	Repairing of CPT, Contour Trench and Box Trench	12
6	Raising of seedlings for infilling	8
Total Mandays (Nos.).		96
X.	Cost of Labour Component @ Rs.311/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	29856.00
Add GST.18% (sec Code.: 991579) for Tender Work over X (Rs).		5374.08
Cost of labour Component for tender work with GST Ms.).		35230.08
B. Material Cost (Rs.)		
1	Vehicle hiring for carriage of seedling/fertilizer/cow dung manure/water tanker/JFMC member to plantation site etc. including GST	2000.00
Y.	Total Material Cost without Labour Cess (Rs.) =	2000.00
X.	Cost of Labour Component for tender work with GST (Rs.) =	35230.08
Z.	Total Cost (X + Y) =	37230.08
4	Contingency 3%	1116.90
5	Labour Cess 1%	372.30
Total =		38719
Add 10% Contactors profit for tender work (Rs.) =		3872
GRAND TOTAL for TENDER WORK with GST (Rs.) =		42591
Total for 0.99 Ha. Plantation		42165

Approved



**Chief Conservator of Forests
South West Circle, W.B.**




**Divisional Forest Officer,
Purulia Division.**

SCHEDULE FOR 4TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning, mulching, without application of fertilizer	8
2	2nd weeding, cleaning	4
3	Watch & Ward	45
Total Mandays (Nos.).		57
X.	Cost of Labour Component @ Rs.330/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	18810
Add GST.18% (sec Code.: 991579) for Tender Work over X		3386
Cost of labour Component for tender work with GST Ms.).		22196
1	Contingency 3%	666
2	Labour Cess 1%	222
GRAND TOTAL for TENDER WORK with GST (Rs.)=		23084
Total for 0.99 Ha. Plantation		22853

Approved 



Chief Conservator of Forests
South West Circle, W.B.




Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 5TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	45
Total Mandays (Nos.).		55
X.	Cost of Labour Component @ Rs.350/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	19250.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		3465
Cost of labour Component for tender work with GST Ms.).		22715
1	Contingency 3%	681
2	Labour Cess 1%	227
GRAND TOTAL for TENDER WORK with GST (Rs.)=		23624
Total for 0.99 Ha. Plantation		23387

Approved



Chief Conservator of Forests
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Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 6TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	30
Total Mandays (Nos.).		40
X.	Cost of Labour Component @ Rs.371/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	14840.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2671
Cost of labour Component for tender work with GST Ms.).		17511
1	Contingency 3%	525
2	Labour Cess 1%	175
GRAND TOTAL for TENDER WORK with GST (Rs.)=		18212
Total for 0.99 Ha. Plantation		18030

Approved

[Signature]
 Chif Conservator of Forests
 South West Circle, W.B.

[Signature]
 Divisional Forest Officer,
 Purulia Division.

SCHEDULE FOR 7TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	30
Total Mandays (Nos.).		40
X.	Cost of Labour Component @ Rs.393/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	15720.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		2830
Cost of labour Component for tender work with GST Ms.).		18550
1	Contingency 3%	556
2	Labour Cess 1%	185
GRAND TOTAL for TENDER WORK with GST (Rs.)=		19292
Total for 0.99 Ha. Plantation		19099

Approved



Chief Conservator of Forests
South West Circle, W.B.




Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 8TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)

Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	30
Total Mandays (Nos.).		40
X.	Cost of Labour Component @ Rs.417/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	16680.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		3002
Cost of labour Component for tender work with GST Ms.).		19682
1	Contingency 3%	590
2	Labour Cess 1%	197
GRAND TOTAL for TENDER WORK with GST (Rs.)=		20470
Total for 0.99 Ha. Plantation		20265

Approved



Chief Conservator of Forests
South West Circle, W.B.




Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 9TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)		
Type of plantation		QGS SB
No of seedlings per ha		1600
Spacing per ha		2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	30
Total Mandays (Nos.).		40
X.	Cost of Labour Component @ Rs.442/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	17680.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		3182
Cost of labour Component for tender work with GST Ms.).		20862
1	Contingency 3%	626
2	Labour Cess 1%	209
GRAND TOTAL for TENDER WORK with GST (Rs.)=		21697
Total for 0.99 Ha. Plantation		21480

Approved



Chief Conservator of Forests
South West Circle, W.B.




Divisional Forest Officer,
Purulia Division.

SCHEDULE FOR 10TH YEAR MAINTENANCE OF PLANTATIONS (COMPENSATORY AFFORESTATION)		
Type of plantation		QGS SB
	No of seedlings per ha	1600
	Spacing per ha	2.5m x 2.5m
SL.	Particulars of Work	
A.	Labour Component	
1	1st weeding, cleaning	6
2	2nd weeding, cleaning	4
3	Watch & Ward	30
Total Mandays (Nos.).		40
X.	Cost of Labour Component @ Rs.469/MD for Departmental Work (Rs.).(Wage rate has been assumed predicting 6% annual increment)	18760.00
Add GST.18% (sec Code.: 991579) for Tender Work over X		3377
Cost of labour Component for tender work with GST Ms.).		22137
1	Contingency 3%	664
2	Labour Cess 1%	221
GRAND TOTAL for TENDER WORK with GST (Rs.)=		23022
Total for 0.99 Ha. Plantation		22792

Approved



Chief Conservator of Forests
South West Circle, W.B.




Divisional Forest Officer,
Purulia Division.

**ESTIMATE FOR SUPPLY & FIXING OF BOUNDARY PILLAR UNDER DIVISIONAL FORESTER OFFICER, PURULIA DIVISION
PURULIA**

Schedule followed:- P.W.D.(Building works effected from 01.11.2017)

Project Name :- Development of Murguma Tourism Complex.

Quantity of Pillar = 134 nos

Sl No	Page & It. No	Particulars	Total Qty.	Unit	Rate.	Amount
1	Item no.: 1(i), Page no.: 219(add 3rd corrigenda it-1, pa-59)	Fixing post of iron or precast concrete by digging hole in the ground (in all sorts of soil) and embedding the same by packing the hole with cement concrete (1:3:6) (with jhama khoa. For Purulia, Bankura and Darjeeling Hill by Pakur Variety, Local Black Hard Stone & Bazree respectively) and finishing the top surface to regular shape (as directed) with 15 cm cement plaster (1:6) complete, including the cost of concrete, plaster etc.but excluding the cost of the post : for digging post= 1ha= 400 rmt @ 3 m c/c = 134 nos. projected area= 1 ha @ 134 nos/ha=	134	nos	188.00	Rs. 25,192.00
		Add Extra for undulation land @ 10 % of Total Quantity	13	nos	188.00	Rs. 2,444.00
2	page-223, item-15(add 3rd corrigenda it-2, pa-60)	Supplying at site or stackyard or as directed PCC (1 : 2 :4) Fencing Post 215 cm 150 mm X 150 mm section at bottom, 100 mm X 100 mm section at top with T-Base 300 mm X 150 mm X 100 mm, having 4 nos 6 mm dia vertical M.S. reinforcement and 6 mm dia binders @ 200 mm centres, finished smooth etc., complete. vertical post = 147 nos =	147	each	433.00	Rs. 63,651.00
3	Page no 200, Item no 1(b)	(a) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. vertical post = 147 x 2.15 x 0.5	158	sqm	38.00	Rs. 6,005.14
4	Page - 200, Item - 2 (A) iv	(A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : (a) On timber or plastered surface : iv) Two coats (with any shade except white) Quantity same as Sl. No. 3	158	sqm	81.00	Rs. 12,800.43
Sub-Total=						Rs. 110,092.57
Add GST @ 12% of Sub-Total =						Rs. 13,211.11
Total =						Rs. 123,303.68
Add CESS @ 1% of Total Amount =						Rs. 1,233.04
Add Contingency @ 3 % =						Rs. 3,699.11
Grand Total =						Rs. 128,235.83
Say,						Rs. 128,236.00

(Rupees One Lakh Twenty Eight Thousand Two Hundred Thirty six) Only

Approved

Chief Conservator of Forests
South West Circle, W.B.



Divisional Forest Officer
Purulia Division

ESTIMATE FOR TIMBER HARVESTING (FROM FIELD) UNDER DIVISIONAL FOREST OFFICER, PURULIA DIVISION, PURULIA

Project Name :- Development of Murguma Tourism Complex

Sl.No.	Item	Felling, Logging & Carriage/unit	Stacking /unit	Carriage distance Up to 30 km			Total Rate/kms	Total Rate/unit	Total Qty	Unit	Total Amount
				Upto 10 kms.	11-20 kms.	21-30 kms.					
1	Timber per m3	Rs. 650.00	Rs. 150.00	Rs. 1,000.00	Rs. 1,100.00	Rs. 1,200.00	Rs. 3,300.00	Rs. 4,100.00	8.763	cum	Rs. 35,928.30
2	Firewood per m3	Rs. 225.00	Rs. 30.00	Rs. 130.00	Rs. 145.00	Rs. 155.00	Rs. 430.00	Rs. 685.00	4.0	cum	Rs. 2,740.00
										Total=	Rs. 38,668.30
										Add Contingency @ 3 %=	Rs. 1,160.05
										Grand Total=	Rs. 39,828.35
										Say,	Rs. 39,828.00

(Rupees Thirty Nine Thousand Eight Hundred Twenty Eight) Only

Approved



Chief Conservator of Forests
South West Circle, W.B.



Divisional Forest Officer
Purulia Division

Abstract of Compensatory Afforestation Cost & SMC Works

SI No.		Work Details	Cost
1	Compensatory Afforestation (CA cost)	Raising seedlings or Nursery	11083
		QGS Plantation creation	102528
		1st Year maintenance	53211
		2nd Year maintenance	45862
		3rd Year maintenance	42165
		4th Year maintenance	22853
		5th Year maintenance	23387
		6th Year maintenance	18030
		7th Year maintenance	19099
		8th Year maintenance	20265
		9th Year maintenance	21480
		10th Year maintenance	22792
Total =			402755
2	Associated SMC Works: 25% of CA amount	SMC work in CA Plantation site	100689
3	Boundary Demarcation/fixing Boundary pillars		128236
4	Timber Harvesting		39828
Grand Total: CA cost			671508

Approved



Chief Conservator of Forests
South West Circle, W.B.


Divisional Forest Officer,
Purulia Division.